

Bloc de conception

Prisma G

Prisma G, Prisma GX,
Prisma GK



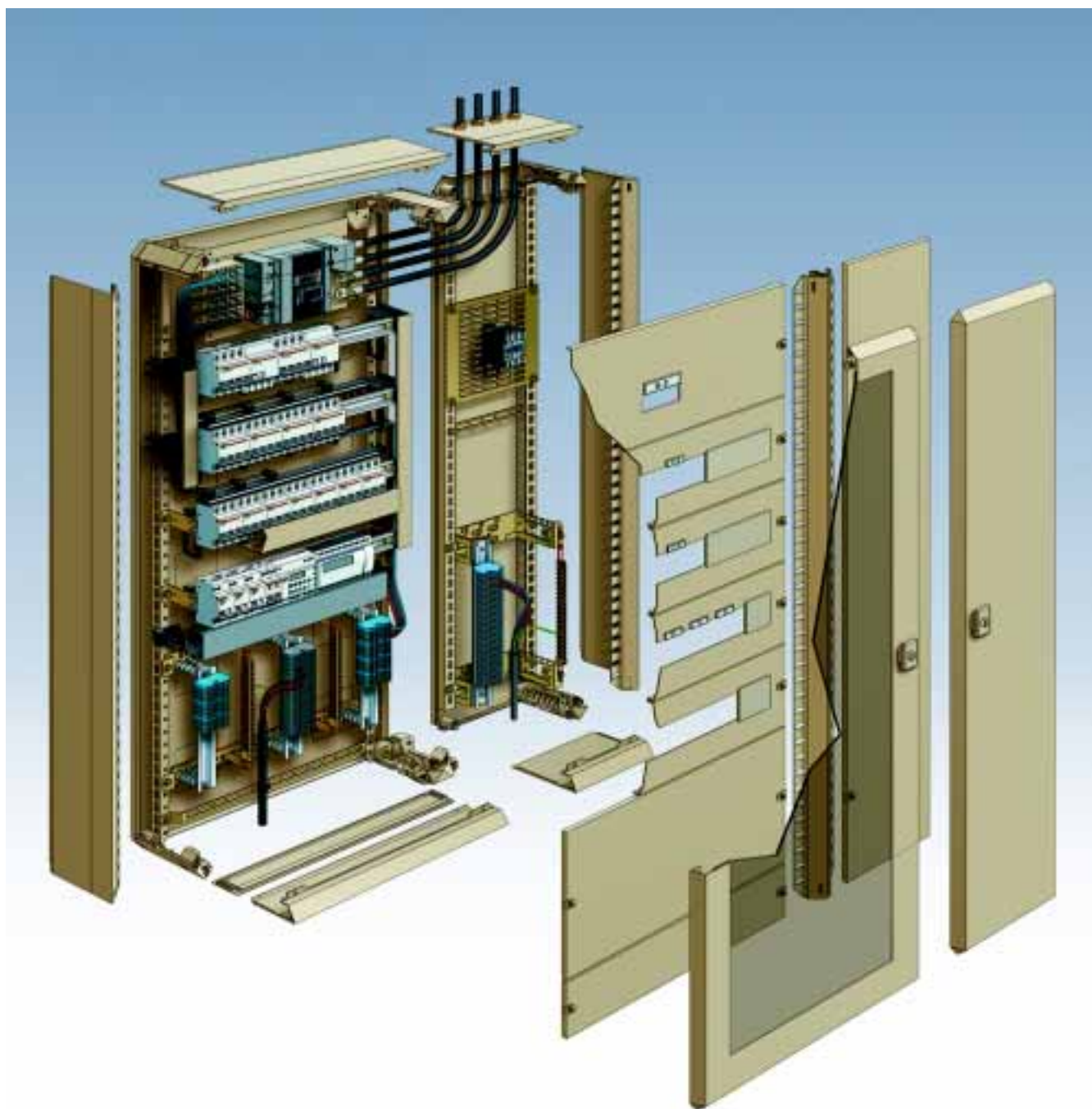
Merlin Gerin

Modicon

Square D

Telemecanique

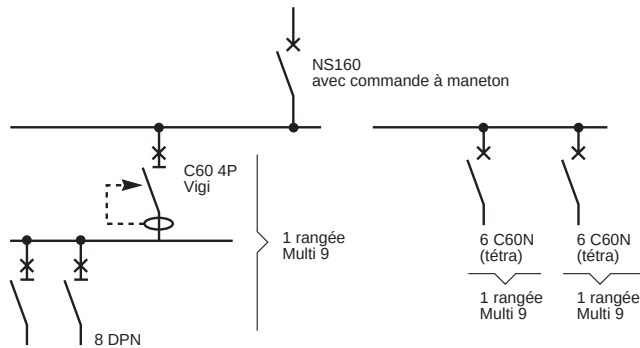
Schneider
 **Electric**



Mode de détermination des références

A partir du schéma électrique

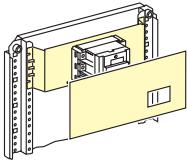
Faire la liste des appareils à installer en les regroupant par unité fonctionnelle.



Et à l'aide des tableaux de références

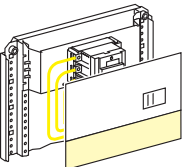
1 Pour l'appareil d'arrivée, s'il n'est pas installé dans la gaine, déterminer :
■ le nombre de modules verticaux occupés ;
■ les références des platines et plastrons.
Pages 4 à 7.

appareils	nbre de mod. vert.	platine	plastron
NS160	4	07515	07824



2 Prévoir la liaison préfabriquée et son encombrement pour raccorder l'appareil de tête au jeu de barres, ou le répartiteur (Polybloc...) et son encombrement.
Page 5 et 7.

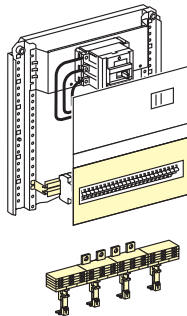
liaison	nbre de mod. vert.	réf. connex.	plastron
liaison	2	07033	07802



3 Pour chaque départ ou groupe de départs, déterminer :
■ le nombre de modules verticaux occupés ;
■ les références de la platine et du plastron.
Pages 4 à 7.

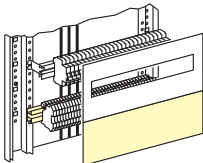
■ le répartiteur : Multiclip, Distribloc, Peigne...
Pages 4 à 7 et 14-15.

app. Multi 9	nbre de mod. vert.	rail Multifix	plastron
1 rangée Multi 9 (1)	4	07501	07814
1 rangée Multi 9 (1)	4	07501	07814
1 rangée Multi 9 (1)	4	07501	07814
répartiteur		quantité	réf.
Multiclip tri + 2N		1	07005
Multiclip tri + N		1	07004
(1) 48 pas de 9 mm			



4 Pour les bornes de jonction, déterminer :
■ le nombre de modules verticaux occupés ;
■ les références de la platine et du plastron.
Pages 6-7.

bornes jonction	nbre de mod. vert.	rail Multifix	plastron
bornes jonction	3	07502	07803

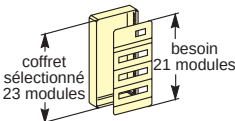


5 Totaliser le nombre de modules occupés.

21

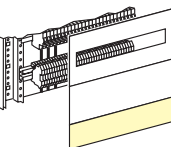
6 A partir du degré de protection IP, du nombre de modules occupés, sélectionner le coffret ou l'armoire.
Page 10 à 13.

coffret	réf.
coffret 23 modules	09006
+ porte transparente (IP40)	09046



7 Si l'appareillage n'occupe pas tout le coffret, compléter la face avant avec un plastron plein complémentaire.
Pages 6-7.

nombre de modules complémentaires	plastron plein complémentaire
23-21 = 2	07802



8 Définir les accessoires complémentaires :
■ pour la distribution : répartiteurs, jeux de barres, Multiclip, peignes... ;
■ pour la circulation de filerie ;
■ pour l'installation.
Pages 14 à 17.

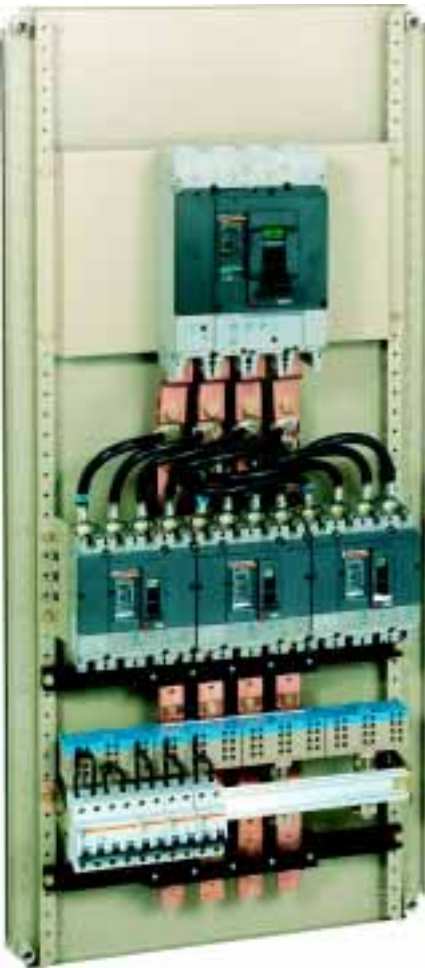
désignation	quantité	réf.
4 barres Cu 160 A	1	07021
soutien de barres	3	07025
collecteur Terre/Neutre	1	07047
bracelets horiz.	3	07300

Compact NS 100/630

Multi 9

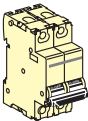
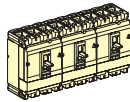
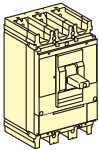
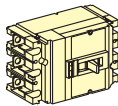


NS 250 en montage horizontal alimenté par liaison préfabriquée 07205.
Répartiteur Polybloc 07102.

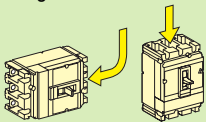
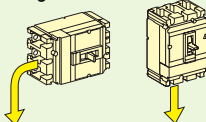


NS 400 connecté sur un jeu de barres en fond de coffret.
Disjoncteurs NS 160.
Appareillage Multi 9 sur rail Multifix 07501.
Répartiteur Multiclip 07004.

Nota :
(1) Lorsque la rangée d'appareils est incomplète, utiliser l'obturateur en bande 07340 (H = 46 mm, L = 1000 mm).



Installation de l'appareil		
désignation	qté par rangée	nbre de modules verticaux H=50 mm
100 à 250 A, montage horizontal, fixe, prises avant		
NS 100/250, cde maneton	1	4
Vigi NS 100/250, cde maneton	1	4
100 à 250 A, montage vertical, fixe, prises avant		
NS 100/160, cde maneton	1	6
NS 250, cde maneton	1	9
Vigi NS 100/160, cde maneton	1	8
Vigi NS 250, cde maneton	1	11
400 à 630 A, montage vertical, fixe, prises avant.		
NS 400, cde maneton	1	11
NS 630, cde maneton	1	14
Vigi NS 400, cde maneton	1	13
Vigi NS 630, cde maneton	1	16
100/630 A, avec ou sans Vigi, montage vertical dans la gaine		
NS 100/250, cde maneton	11	
NS 400/630, cde maneton	11	
100 à 250 A, montage vertical, fixe, prises avant		
NS 100/160, cde maneton	bi, tri : 4 tétra: 3	6
NS 250, cde maneton	bi,tri :4 tétra: 3	9
Vigi NS 100/160, cde maneton	bi, tri, tétra: 3	8
Vigi NS 250, cde maneton	bi, tri, tétra: 3	11
montage vertical, fixation sur rail Multifix (capacité : 48 pas de 9 mm)		
appareillage ≤ 40 A	voir tableau p. 18	3
appareillage ≤ 125 A	voir tableau p. 18	4

					Raccordement amont				Liaison aval, répartition				
	platine ou rail	plastron découpé	plastron suppl. haut	plastron suppl. bas	désignation 	réf.	mod. suppl.	plastron suppl.	désignation 	réf.	mod. suppl.	plastron suppl.	
	07515	07824			direct sur l'appareil		0		direct sur l'appareil par répartiteur Polybloc Polybloc 160 A 6 dép. 4P Polybloc 250 A 9 dép. 3P Polybloc 250 A 9 dép. 4P Polybloc 250 A 12 dép. 4P par répartiteur étagé 4P 160 A 15 dép. 250 A 15 dép. par bornes multitrous bornes 6x35 ² (lot de 3) bornes 6x35 ² (lot de 4) sur jeu de barres de fond (app. fixe) liaison JdB de fond 160 A liaison JdB de fond 250 A		0		
	07515	07852			par liaison préfabriquée pour câbles > 90 ² liaison amont utilisation de cosses voir appareillage	07205	2	07802		07100 07103 07101 07102 07057 07058 29248 29249 07033 07034	0 0 1 2 5 5 0 0 2 2	07801 07801x2 07805 07805 07802 07802	
	07516	07853		07801	direct sur l'appareil par épanouisseurs épanouisseurs 3P épanouisseurs 4P	31563 31564	1 1	07801 07801	direct sur l'appareil par répartiteur étagé 4P 160 A 15 dép. 250 A 15 dép.	07057 07058	5 5	07805 07805	
	07516	07854		07801	utilisation de cosses voir appareillage				par bornes multitrous bornes 6x35 ² (lot de 3) bornes 6x35 ² (lot de 4) par jeu de barres liaison JdB de fond 250 A	29248 29249 07037	0 0 0		
	07523	07834	07802		direct sur appareil		0		direct sur appareil		0		
	07523	07834	07803	07802	avec épanouisseurs entr'axe de raccord. 52,5 mm 3P 4P	32490 32491	1 1	07801 07801	par répartiteur étagé 4P 400 A 15 dép.	07059	5	07805	
	07523	07834	07802	07802	entr'axe de raccord. 70 mm 3P 4P	32492 32493	1 1	07801 07801	par jeu de barres (NS400 cde maneton) liaison JdB de fond 400 A	07036	0		
	07523	07834	07803	07804	utilisation de cosses voir appareillage								
	07540 (platine + plaston) 07541 (platine + plaston)												
	07516	07853		07801	direct sur l'appareil		0		direct sur appareil		0		
	07516	07853	07802	07802	par liaisons préfabriquées à partir d'un jeu de barres liaison 100 A	07038	0						
	07516	07854		07801	utilisation de cosses voir appareillage								
	07516	07854	07802	07802									
	07501	07813			■ sur un seul appareil direct par câbles ■ sur 1 rangée d'appareils fil à fil par peignes		0 0 0		avec bracelets de filerie H = 30 mm	07300	0		
	07501	07814			■ sur 1 rangée d'appareils fil à fil ou par peignes (liaisons préfabriquées 100 A pour raccorder sur un jeu de barres) par Multiclip appareillage ≤ 40 A ■ sur un seul appareil: direct sur appareil par liaisons préfabriquées à partir d'un jeu de barres liaison 100 A	voir p. 15 07038	0 0 0		avec bracelets de filerie H = 30 mm H = 60 mm avec goulottes horizontales H ≤ 30 mm H > 30 mm	07300 07301	0 0 0 1	07801	

Interpact INS 100/630

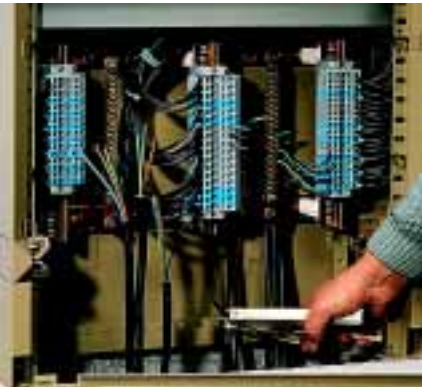
Appareillage divers, réserve



INS 400 horizontal raccordé sur jeu de barres par liaison préfabriquée 07034.
Disjoncteurs Multi 9 alimentés par Multiclip 07004.
Support de bornes (07548) dans la gaine de 300.

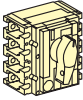
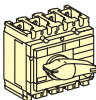
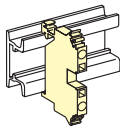
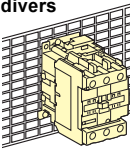
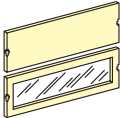


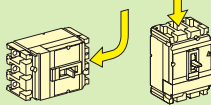
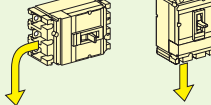
INS 125 connecté sur un répartiteur Distribloc 07105 avec une liaison 07054.



Bornes de jonction à installer sur platine 07558.

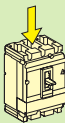
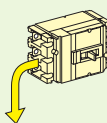
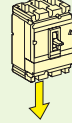
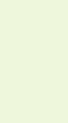
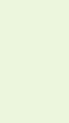
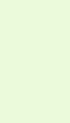
Nota :
(1) Lorsque la rangée d'appareils est incomplète, utiliser l'obturateur en bande 07348.

Installation de l'appareil			
désignation		qté par rangée	nbre de modules verticaux
Interpact INS 	100 à 250 A, montage horizontal, commande frontale directe ou prolongée sur porte, fixe PAV		
	INS 250	1	4
Interpact INS 	100 à 250 A, montage vertical, commande frontale directe ou prolongée sur porte, fixe PAV		
	INS 100/250	1	7
		3	7
	320 à 630 A, montage vertical, commande frontale, directe ou prolongée sur porte, fixe PAV		
	INS 320/400	1	10
	INS 500/630	1	12
Interpact INS	100/630 A, montage vertical, dans la gaine, commande frontale		
	INS 100/250	11	
	INS 400/630	11	
bornes de jonction 	installation sur rail Multifix		
		430 mm utile	3 à 6
	installation sur platine à rails verticaux		
		1000 mm utile	5
appareillage divers 	sur platine perforée plate (prof. utile : 140 mm)		
	surface utile (HxL) 200 x 470 mm		4
	sur platine perforée cuvette (prof. utile : 160 mm)		
	surface utile (HxL) 200 x 420 mm		4
	surface utile (HxL) 350 x 420 mm		7
réserve 	sur surface utile (HxL) 550 x 420 mm		
			11
	derrière plastron plein plat		
	H = 50 mm		1
	H = 100 mm		2
	H = 150 mm		3
	H = 200 mm		4
	H = 250 mm		5
	H = 300 mm		6
	derrière plastron transparent		
	H = 200 mm		4
	H = 300 mm		6

				Raccordement amont				Liaison aval, répartition				
platine ou rail	plastron découpé	plastron suppl. haut	plastron suppl. bas	désignation 	réf.	mod. suppl.	plastron suppl.	désignation 	réf.	mod. suppl.	plastron suppl.	
07515	07865			direct sur appareil par liaison préfabriquée (câbles >95²) liaison app. d'arrivée	07205	0 2	07802	par répartiteur Polybloc Polybloc 160 A 6 dép. 4P Polybloc 250 A 9 dép. 3P Polybloc 250 A 9 dép. 4P Polybloc 250 A 12 dép. 4P par bornes multitrous bornes 6x35² (lot de 3) bornes 6x35² (lot de 4) par jeu de barres liaison JdB de fond 160 A liaison JdB de fond 250 A par répartiteur étagé 4P 160 A 15 départs 250 A 15 départs	07100 07103 07101 07102 29248 29249 07033 07034 07057 07058	0 0 1 2 0 0 2 2 5 5	07801 07801x2 07802 07802 07805 07805	
07516	07866		07801	direct sur appareil		0		par bornes multitrous bornes 6x35² (lot de 3) bornes 6x35² (lot de 4) par jeu de barres liaison JdB fond 160 A ou 250 A (à réaliser) par répartiteur étagé 4P 160 A 15 départs 250 A 15 départs	29248 29249 07057 07058	1 1 2 5 5	07801 07801 07802 07805 07805	
07516	07867 (1)	07801	07801									
07523	07872	07802	07802	direct sur appareil		0		par jeu de barres liaison JdB de fond 400 A par répartiteur étagé 4P 400 A 15 départs	07036 07059	2 5	07802 07805	
07523	07872	07803	07803									
07547 (platine + plastron)												
07549 (platine + plastron)												
07502		07803 à 07806		fil à fil avec bracelets de filerie H = 30 mm H = 60 mm avec goulotte horizontale H ≤ 30 mm H > 30 mm	07300 07301 0 1	0 0 0 1	07801	fil à fil avec bracelets de filerie H = 30 mm H = 60 mm avec goulotte horizontale H ≤ 30 mm H > 30 mm	07300 07301 0 1	0 0 0 1	07801	
07558		07805		fil à fil		0		fil à fil		0		
07510		07804		direct sur appareil		0		direct sur appareil		0		
07570		07804										
07571		07806 + 07801										
07572		07773										
		07801										
		07802										
		07803										
		07804										
		07805										
		07806										
		07890										
		07892										

Appareillage de protection
et commande moteur

Installation de l'appareil			
	désignation	capacité de la platine	nbre de modules verticaux H=50 mm
 Contacteur LP série D	montage vertical sur rail Multifix, derrière plastron plein		
	LP1/LP2-D09, D12, D18 avec ou sans LA4, LA8	L = 432 mm	3
	LP1/LP2-D09, D12 avec LA1, LA4, LA8 (avec LA2, LA3, LA6 DK1, LA6 DK2 montage possible sans plastron)	L = 420 mm	4
	LP1/LP2-D18 avec LA1, LA4, LA8 (avec LA2, LA3, LA6 DK1, LA6 DK2 montage possible sans plastron)	L = 420 mm	4
	LP1/LP2-D25, D32 avec ou sans LA4, LA8 (avec LA1, LA2, LA3, LA6DK1, LA6DK2, montage possible sans plastron)	L = 420 mm	4
 Contacteur LC série D	montage vertical sur rail Multifix, derrière plastron plein		
	LC1/LC2-D09, D12 avec ou sans LA4, LA8	L = 432 mm	3
	LC1/LC2-D09, D12 avec ou sans LA1, LA4, LA8, LA6 DK1, LA6 DK2	L = 432 mm	3
	LC1/LC2- D18 D25 avec ou sans LA1, LA4, LA8	L = 432 mm	4
	LC1/LC2- D32 avec ou sans LA4, LA8	L = 432 mm	4
	LC1/LC2-D09, D12, D18, D25, D32 avec ou sans LA1, LA2, LA3, LA4, LA8, LA6 DK1, LA6 DK2	L = 420 mm	4
	LC1/LC2-D40 avec ou sans LA1, LA4, LA8, LA6-DK1, LA6/DK2 (avec LA2, LA3, montage possible sans plastron)	L = 420 mm	4
 Contacteur série K	montage vertical sur rail Multifix, derrière plastron plein		
	LC1-K, LC7-K, LP1-K avec ou sans LA1-KN, LA2-KT, LA4	L = 432 mm	2
	LC2-K, LC8-K, LP2-K avec ou sans LA1-KN, LA2-KT, LA4	L = 432 mm	2
	LC1-K, LC7-K, LP1-K avec ou sans LA1-KN, LA2-KT, LA4	L = 420 mm	4
	LC2-K, LC8-K, LP2-K avec ou sans LA1-KN, LA2-KT, LA4	L = 420 mm	4
 GV2 M (1)	montage vertical		
	GV2-M	L = 432 mm	4
	GV2-M + GV1-L3	L = 432 mm	4
	GV2-M + GV2-AE	L = 432 mm	3
	GV2-M + GV2-AE + GV1-L3	L = 432 mm	4
GV2 RT	GV2-RT	L = 432 mm	4
GV2 LE (2)	montage vertical		
	GV2-LE	L = 432 mm	4
	GV2-LE + GV2-AE	L = 432 mm	4
GV2 P (2)	GV2-P, avec ou sans GV2 AE	L = 432 mm	4
	GV2-P, avec ou sans GV2 AE + GV1 L3	L = 432 mm	4
	GV2-P + GV2-AK00	L = 432 mm	4
	GV2-L, avec ou sans GV2 AE	L = 432 mm	4
	GV2-L + GV2-AK00	L = 432 mm	4
GV3	montage vertical à travers plastron modulaire		
	GV3-M ≤ 40 A	48 pas	5
 Intégral 18, 32	montage horizontal à travers plastron découpé		
	Intégral 18 LD1-LB, LD5-LB	174 mm	4
	Intégral 32 LD1-LC, LD4-LC, LD5-LC		
 Association disjoncteur / contacteur	montage horizontal, disjoncteur derrière plastron découpé		
	disjoncteurs : – C60, C60 LMA – GV2 L, LE, M, P, RT, sans GV2-AK00, sans GV2 AE	174 mm	4
	contacteurs : – série K – série D : D09, 12, 18, 25, 32 avec ou sans LA4, LA8 sans LA1, LA2, LA3, LA6 DK1, LA6 DK		
GV2-M...K (1)	montage vertical sur rail Multifix, derrière plastron plein		
	GV2-M...K. avec ou sans GV2-AE, AD, AM, AN, avec ou sans LA1, LA2	L = 432 mm	5
	GV2-M...K avec ou sans LA1, LA2 + GV1-L3	L = 432 mm	6
GV2-P...D	montage vertical sur platine Multifix cuvette, derrière plastron plein		
	GV2-P...D avec ou sans GV2-AE, AD, AM, AN avec ou sans GV1-L3, GV2 AK00, LA1, LA2, LA3, LA8	L = 420 mm	6
Démarreurs	montage vertical, sur rail Multifix, derrière plastron transparent		
	LH4-N1 (largeur 45 mm), LH4-N2 jusqu'à 22 A (largeur 90 mm)	L = 432 mm	4

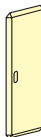
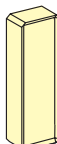
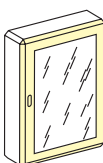
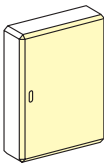
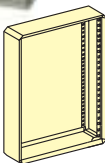
				Raccordement amont			Liaison aval, répartition				
	platine ou rail	plastron découpé	plastron plein	désignation			désignation				
											
				fil à fil	peigne type GV2 G...	Multiclip	fil à fil	bracelets de filerie H = 30	H = 60	goulottes horizontales H < 30	H > 30 (3)
	07551	07803		■			■			■	■
	07509	07804									
	07509	07804									
	07509	07804									
	07502	07803		■			■			■	■
	07551	07803									
	07551	07804									
	07551	07804									
	07509	07804									
	07509	07804									
	07502	07802		■			■	07300			■
	07502	07802		■			■	07300			■
	07509	07804		■			■			■	
	07509	07804		■			■			■	
	07501	07814		■	■	■	■	07300	07301	■	■
	07501	07814		■							
	07502		07803	■	■						
	07502		07804	■							
	07501	07814		■	■	■					
	07501	07814		■	■	■	■	07300	07301	■	■
	07502		07804	■	■		■	07300	07301	■	■
	07502	07814		■	■		■	07300	07301	■	■
	07502	07814		■			■	07300	07301	■	■
	07551		07804	■			■			■	■
	07502	07814		■	■		■	07300	07301	■	■
	07551		07804	■			■			■	■
	07502	07815		■			■	07300	07301	■	
	07512	07871		■			■				
	07512	07871		■			■				
	07502	07805		■	■		■	07300	07301	■	■
	07502	07805	07801								
	07509	07806		■	■		■			■	■
	07551	07890		■			■			■	■

Coffret Prisma G



IP 30 - 40 - 43

- Coffret Prisma G démontable et associable :
- IP30 IK07 coffret avec plastron
 - IP40 IK08 coffret avec porte
 - IP43 IK08 coffret avec porte
 - + lot d'étanchéité 09057
 - + auvent



capacité en modules de 50 mm	H x L x P (mm)	coffret sans porte	porte pleine	porte transparente	gaine + capot L = 300 mm	porte de gaine L = 300 mm
3	200 x 550 x 200	09001	09031	09041		
7	400 x 550 x 200	09002	09032	09042	09082	09092
11	600 x 550 x 200	09003	09033	09043	09083	09093
15	800 x 550 x 200	09004	09034	09044	09084	09094
19	1000 x 550 x 200	09005	09035	09045	09085	09095
23	1200 x 550 x 200	09006	09036	09046	09086	09096

Accessoires

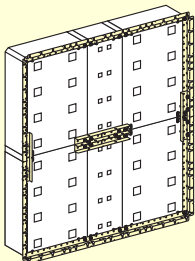
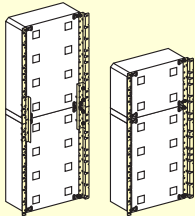
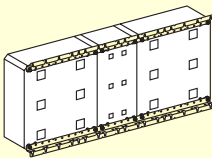
auvent	réf.
pour coffret seul	09065
pour coffret + gaine	09067
socle (H = 100 mm)	réf.
pour coffret seul	09062
pour coffret + gaine	09064
jeu de 2 anneaux de levage	09070
plaque passe câble pour coffret ou armoire	09055
plaque passe câble sup. pour gaine de 300	09054
4 pattes de fixation murales orientables	09052
lot d'encastrement	09061

cloison horizontale	réf.
pour coffret	07338
pour gaine, L = 300 mm	07339

Association de coffrets

désignation	réf.
2 piliers doubles	09050
2 traverses seules (L = 1400)	09051
2 pièces d'assemblage	09071

Exemples d'association de coffrets



association en largeur	réf.
2 piliers doubles	09050+
2 traverses seules	09051

association en hauteur	réf.
H < 1400 mm	
2 piliers doubles	09050 +
2 traverses seules	09051
H > 1400 mm	
2 piliers doubles	09050 +
2x2 traverses seules	2 x 09051 +
2 pièces d'assemblage	09071

association en largeur/hauteur	réf.
H < 1400 mm	
3x2 piliers doubles	3 x 09050 +
2x2 traverses seules	2 x 09051 +
2 pièces d'assemblage	09071
H > 1400 mm	
3x2 piliers doubles	3 x 09050 +
3x2 traverses seules	3 x 09051 +
2x2 pièces d'assemblage	2 x 09071

Coffret Prisma G / canalis KV
dérivation pour colonnes montantes



Choix du coffret

nbre de modules disponibles (1)	dimensions			réf.
	H	L	P	
8 (11-3)	600	550	200	09009
12 (15-3)	800	550	200	09010

(1) nombre de modules verticaux (H = 50 mm) réellement disponibles dans le coffret pour installer l'appareillage.

liaisons préfabriquées	réf.
liaison 250 A bloc dériv./ Compact NS	07083
liaison bloc dériv./ 3 Compact NS	07094

accessoires	réf.
écran XXB pour bloc de dérivation	2 x 07330
lot de 2 grilles porte filtre IP40	07986

associations	réf.
lot de 2 pattes de fixation spéciales	09080

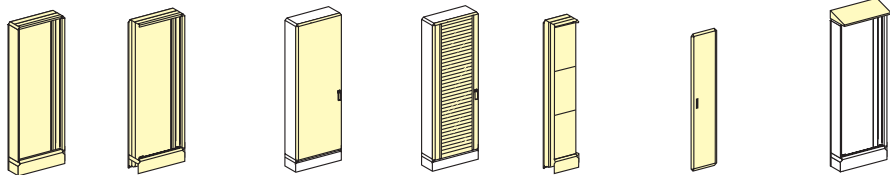
Armoire Prisma GX



IP 30 - 40 - 43

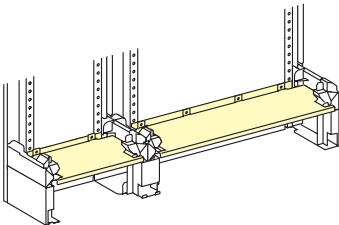
Armoire Prisma GX démontable et associables :

- IP30 IK07 coffret avec plastron
- IP40 IK08 coffret avec porte
- IP43 IK08 coffret avec porte
- + lot d'étanchéité 09057x2
- + auvent



capacité en modules de 50 mm	H x L x P (mm)	armoire de base	armoire d'extension	porte pleine	porte transp.	gaine L = 300 + plastrons	portillon plein	auvent armoire seule	armoire + gaine
27	1550 x 550 x 200	09007	09017	09037	09047	09027	09077	09065	09067
33	1850 x 550 x 200	09008	09018	09038	09048	09028	09078	09065	09067

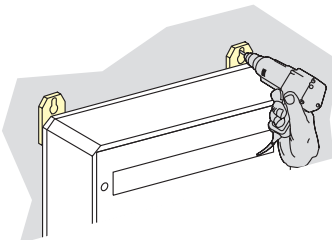
Accessoires Prisma GX



cloison horizontale	réf.
pour armoire	07338
pour gaine, L = 300 mm	07339

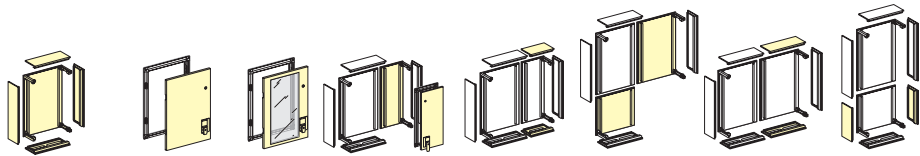
cloison verticale	réf.
pour armoire	07337

désignation	réf.
4 pattes de fixation murales orientables	09052
2 anneaux de levage	09070
plaque passe câble inf. pour armoire de base ou d'extension	09090
plaque passe câble sup. pour coffret ou armoire	09055
plaque passe câble inf. pour gaine de 300 mm	09091
plaque passe câble supérieure pour gaine de 300 mm	09054



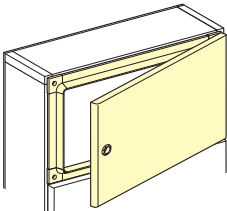
Coffret Prisma GK

IP 55 IK 10

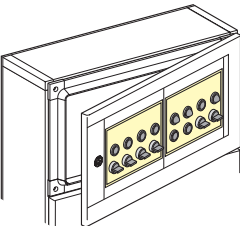


nbre de modules	hauteur coffret armoire (mm)	extension (mm)	coffret ou armoire de base L=600	porte + cadre de coffret ou armoire		gainé d'extension L300		coffret ou armoire d'extension L600		
				pleine	transp.	fond L=325 + porte	2 plaques haut et bas	fond L=575	2 plaques haut et bas	2 panneaux latéraux
7	450	425	05502	05532	05542	05522	05520	05512	05510	05592
11	650	625	05503	05533	05543	05523	05520	05513	05510	05593
15	850	825	05504	05534	05544	05524	05520	05514	05510	05594
19	1050	1025	05505	05535	05545	05525	05520	05515	05510	05595
23	1250	1225	05506	05536	05546	05526	05520	05516	05510	05596
27	1450	1425	05507	05537	05547	05527	05520	05517	05510	05597
33	1750	1725	05508	05538	05548	05528	05520	05518	05510	05598

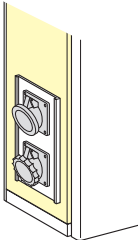
Accessoires Prisma GK



05560



07342

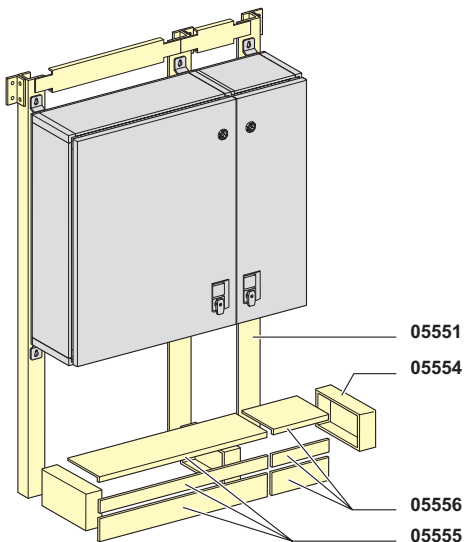


05582

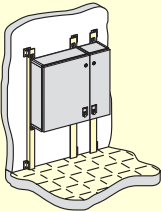
auvents	réf.
auvent L600 (+ visserie pour fixation)	05557
auvent L300 (+ visserie pour fixation)	05558
anneaux de levage	réf
2 anneaux de levage	09070
platines extérieures	réf.
platine 8 trous pour appareillage dia. 22 mm	07342
platine 2 ouvertures 70 x 85 + un obturateur	07343
platine avec une ouverture 90 x 180	07345
platine 2 ouvertures 70 x 85 et 90 x 100	07344
platine pleine 210 x 150	07341
portes partielles	réf.
porte partielle percée (4 modules) H = 200 mm pour Prisma GK 11 à 27 mod.	05562
porte partielle percée (6 modules) H = 300 pour Prisma GK 33 mod	05563
porte partielle Tego Dial (4 modules) H = 200 mm pour Prisma GK 11 à 27 mod.	05564
porte partielle Tego Dial (6 modules) H = 300 mm pour Prisma GK 33 mod.	05565
porte partielle pleine (4 modules) H = 200 mm pour Prisma GK 11 à 27 mod.	05560
porte partielle pleine (6 modules) H = 300 mm pour Prisma GK 33 mod.	05561
panneau latéral percé	réf.
panneau latéral percé 7 mod.	05582
panneau latéral percé 11 mod.	05583
panneau latéral percé 15 mod.	05584
panneau latéral percé 19 mod.	05585
panneau latéral percé 23 mod.	05586
panneau latéral percé 27 mod.	05587
panneau latéral percé 33 mod.	05588
plaques passe câbles à membranes IP55	réf.
plaque passe câble 39 entrées pour 3 câbles de Ø 14 à 26 mm + 4 câbles de Ø 10 à 20 mm + 32 câbles de Ø 7 à 16 mm	05569
plaque passe câbles 2 entrées pour 2 câbles de Ø 33 à 72 mm	05570

associations	réf.
lot d'association horizontal ou vertical (2 piliers doubles)	05550
lot d'association en L (1 pilier triple + 1 pilier simple)	05553
lot d'association en carré (1 pilier quadruple)	05552

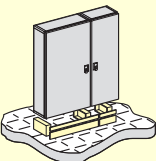
Supports d'installation



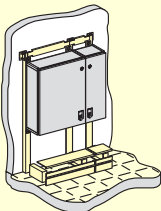
désignation	réf.
1 montant de fixation murale L = 2100 mm	05551
1 gousset de socle	05554
habillage de socle L600	05555
habillage de socle L300	05556
support de fixation sur poteau pour coffret et coffret + gaine	02562
Pourtour maxi du poteau : 580 mm.	



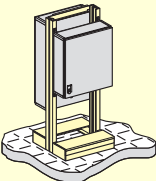
Pour réaliser l'exemple ci-contre, commander :
3 montants de fixation murale 05551 x 3



Pour réaliser l'exemple ci-contre, commander :
3 goussets de socle, 05554 x 3
1 habillage de socle L600, 05555
1 habillage de socle L300, 05556.



Pour réaliser l'exemple ci-contre, commander :
3 montants de fixation murale, 05551 x 3
3 goussets de socle, 05554 x 3
1 habillage de socle L600, 05555
1 habillage de socle L300, 05556.



Pour réaliser l'exemple ci-contre, commander :
4 montants de fixation murale, 05551 x 4
4 goussets de socle, 05554 x 4
2 habillages de socle L600, 05555 x 2.

Jeu de barres, répartiteurs, raccordement

Jeu de barres 160/250/400 A en coffret et en gaine de 300 mm



support de barres		réf.
1 support de barres 3P + N + T en coffret et armoire		07025
1 support de barres étagé en gaine de 300 mm		07068
barre de cuivre	section	réf.
4 barres L = 1000 mm	15 x 5 (160 A)	07021
	20 x 5 (250 A)	07022
	32 x 5 (400 A)	07023
4 barres L = 1400 mm	15 x 5 (160 A)	07017
	20 x 5 (250 A)	07018
	32 x 5 (400 A)	07019

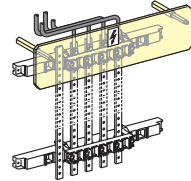
écran	réf.
écran isolant pour jeu de barres, dans la gaine de 300 mm	07069

Caractéristique électrique :
■ tension assignée d'isolement en coffret ou armoire : $U_i = 1000\text{ V}$, $U_i = 690\text{ V}$ dans la gaine.
Définition du nombre de supports en fonction du courant de courte durée admissible : lcw

intensité admissible (A)	section des barres (mm ²)	entr'axe des supports (1) en fonction des lcw				
		lcw en kA eff./1 s				
		10	13	15	20	25
160	15 x 5	450				
250	20 x 5	450	450	450 (2)		
400	32 x 5	450	450	450	300	225 (2)

(1) Les répartiteurs Multiclip peuvent faire office de supports intermédiaires (entr'axe 200 mm maxi).
(2) Dans la gaine : l'entraxe des supports est donné pour un lcw exprimé en kAeff/0,6 s.

Accessoires



désignation	réf.
capot pour connexion, H = 100, L = 470	07330
écran isolant permettant d'interdire l'accès direct sur les plages de raccordement, du jeu de barres (IPXXB en face avant du tableau).	

Connecteur	4 connecteurs pour câbles cuivre ou alu :	réf.
	jeu de 4 connecteurs	
	180 A pour câbles 70 mm ² rigide	07051
	250 A pour câbles 185 mm ² rigide	07052
	400 A pour câbles 300 mm ² rigide	07053

Répartiteur étagé 160/250/400 A



répartiteurs étagés	section des barres (mm)	lcw en kA eff./1 s	réf.
répartiteur 160 A (40 °C)	15 x 5	10	07057
répartiteur 250 A (40 °C)	20 x 5	13	07058
répartiteur 400 A (40 °C)	32 x 5	20	07059

■ Montage horizontal en coffret : 5 modules, commander plastron 07805
■ Montage vertical dans la gaine : 11 modules.
Il est livré avec :
■ 1 sachet de visserie M6
■ 1 écran isolant de face avant IP XXB.

Barres souples isolées



Barres souples en cuivre L = 1750 mm, sous gaine isolante :
■ pour disjoncteurs (ou contacteurs de même calibre), interrupteurs, interfusibles, répartiteur Polypact, Multiclip,
■ pour sectionneurs, liaisons JdB/JdB.
Tension assignée d'isolement : $U_i = 1000\text{ V}$.

appareil	section (mm) (1)	réf.
NS100/160	20 x 2	07071
NS250	20 x 3	07070
NS400	32 x 5	07074
NS630	32 x 8	07075
INS et IN125/160	20 x 2	07071
IN250	20 x 3	07070
IN400	32 x 5	07074
IN630	32 x 8	07075
Multiclip	20 x 2	07071
Fupact 250	24 x 5	07073
Fupact 400	32 x 5	07074
Fupact 630	32 x 8	07075

1) Section quelque soit la température interne dans le tableau.

Répartiteur étagé



répartiteurs étagés 125 A (40 °C)	réf.
4 x 10 trous (5 x 10 ⁻³ + 4 x 16 ⁻³ + 1 x 35 ⁻³)	13512
4 x 17 trous (8 x 10 ⁻³ + 8 x 16 ⁻³ + 1 x 35 ⁻³)	13514
répartiteurs juxtaposables 80 A	réf.
uni (2 x 25 ⁻³ + 4 x 16 ⁻³)	14936
uni (2 x 35 ⁻³ + 4 x 25 ⁻³)	14938
bi (2 x 25 ⁻³ + 2 x 16 ⁻³)	14937
bi (2 x 35 ⁻³ + 2 x 25 ⁻³)	14939

Les répartiteurs uni et bi peuvent s'associer pour réaliser des répartiteurs tri ou tétra. La section des trous est indiquée pour des câbles rigides.

Répartiteur Distribloc



Distribloc 4P	réf.
Distribloc 125	07105
Distribloc 160 + liaison INS 160	07106
Liaison 125 A	réf.
jeu de 4 liaisons 125 A	07054
■ occupation en largeur : 12 pas de 9 mm.	
Répartition (pour Distribloc 125 et 160)	
■ dans bornes à ressort :	
□ 2 départs raccordés par câbles de 1 à 10 ³ souple ou rigide	
□ 3 départs raccordés par câbles de 1 à 6 ³ souple ou rigide	
□ 7 départs raccordés par câbles de 1 à 4 ³ souple ou rigide,	
■ dans borne à cage :	
□ 1 départ raccordé par câbles de 4 à 16 ³ souple (4 à 25° rigide).	

Répartiteur Multiclip



répartiteur Multiclip	réf.
Multiclip 2 P (ph + neutre)	07002
Multiclip 3 P (3 ph)	07003
Multiclip 4 P (3 ph + 1 neutre)	07004
Multiclip 5 P (3 ph+ 2 neutres)	07005
accessoires	réf.
capot de filerie amont	07331
Répartition	
Chaque phase (et neutre) comporte 12 points de connexion pour câble 6 ³ maxi souple ou rigide, avec ou sans embout métallique serti.	
répartiteur Multiclip 1/2 rangée	réf.
Multiclip 1/2 rangée tétrapolaire	07008
Répartition	
4 pôles comportent 6 points de connexion pour câble 6 ³ maxi souple ou rigide, avec ou sans embout métallique serti.	

Répartiteur Polybloc



Polybloc tripolaire	réf.
Polybloc 250 A (40 °C) 9 départs	07103
Polybloc tétrapolaire	réf.
Polybloc 160 A (40 °C) 6 départs	07100
Polybloc 250 A (40 °C) 9 départs	07101
Polybloc 250 A (40 °C) 12 départs	07102
Répartition	
Par câbles jusqu'à 10 ³ souples ou rigides avec ou sans embout. Chaque ressort ne reçoit qu'un câble à la fois.	

Peignes



peignes de raccordement	réf.
pour C60a/N/H/L, SFT, STI (sauf tri + neutre)	
uni	
peigne de 24 pas	14881
peigne de 108 pas (l = 1 m)	14801
jeu de 2 peignes de 48 pas	14891
bi	
peigne de 24 pas	14882
peigne de 108 pas (l = 1 m)	14802
jeu de 2 peignes de 48 pas	14892
tri	
peigne de 24 pas	14883
peigne de 108 pas (l = 1 m)	14803
jeu de 2 peignes de 48 pas	14893
tétra	
peigne de 24 pas	14884
peigne de 108 pas (l = 1 m)	14804
jeu de 2 peignes de 48 pas	14894

Choix des références	
peignes de raccordement pour NG125	réf.
uni	14811
bi 8 embouts cache dents + 2 flasques latéraux	14812
tri 4 embouts cache dents + 2 flasques latéraux	14813
tétra 4 embouts cache dents + 2 flasques latéraux	14814
accessoire	réf.
4 flasques bi ou tri 4 tétra + 20 cache dents	14818
peignes pour Déclit, DPN, DPN N, SFT, STI	réf.
uni + neutre	peigne de 26 pas 14880
tri + neutre	jeu de 2 peignes de 48 pas 14890
	jeu de 2 peignes de 48 pas 14899
accessoires pour peignes	réf.
jeu de 40 flasques	uni + neutre 14886
latéraux	tri + neutre 14887
jeu de 40 embouts	uni + neutre 14898
cache-dent	et tri + neutre 14898
jeu de 40 embouts	uni, bi, tri, tétra 14888
cache-dent	
connecteurs	réf.
jeu de 4 connecteurs isolés pour câbles 25°	14885

Barettes de raccordement

barrette 80 A (40 °C)	(mm)	réf.
4 trous (2 x 10 ³ + 2 x 16 ³)	L = 32	14962
barrette 125 A (40 °C)		réf.
6 trous (3 x 10 ³ + 2 x 16 ³ + 1 x 35 ³ rigide)	L = 50	14963
10 trous (5 x 10 ³ + 4 x 16 ³ + 1 x 35 ³ rigide)	L = 74	14964
14 trous (7 x 10 ³ + 6 x 16 ³ + 1 x 35 ³ rigide)	L = 98	14965

Bornier à barettes 80/125 A	
bornier 80 A (40 °C)	réf.
4 trous (2 x 10 ³ + 2 x 16 ³)	L = 68 mm 14975
bornier 125 A (40 °C)	réf.
6 trous (3 x 10 ³ + 2 x 16 ³ + 1 x 35 ³ rigide)	L = 68 mm 14976
10 trous (5 x 10 ³ + 4 x 16 ³ + 1 x 35 ³ rigide)	L = 115 mm 14977
14 trous (7 x 10 ³ + 6 x 16 ³ + 1 x 35 ³ rigide)	L = 115 mm 14979
support de bornier Prisma	réf.
pour Prisma G/GX/GK	L = 430 mm 07046

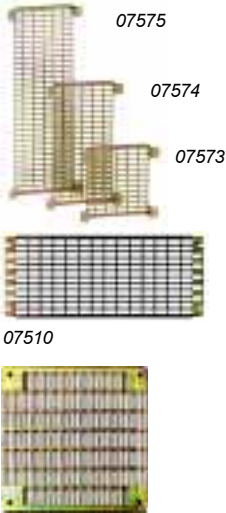
Raccordement



collecteur terre/neutre	réf.
collecteur 40 cavaliers entr'axe de fix. : 450 mm	07047
collecteur 20 cavaliers entr'axe de fix. : 200 mm	07067
désignation	réf.
jeu de 20 prises de tension M10 pour clips 6,35	07048
jeu de 20 prises de tension M16 pour clips 6,35	07049
collecteur d'auxiliaires bipolaire	07400

Accessoires d'installation

Platine perforée



06819

platine perforée cuvette prof. utile : 160 mm		réf.
en coffret ou armoire	4 modules	07570
	7 modules	07571
	11 modules	07572
dans la gaine de 300 mm	4 modules	07573
	7 modules	07574
	11 modules	07575

platinas perforées plates prof. utile : 140 mm		réf.
en coffret ou armoire	1 platine perforée H = 200 mm, L = 470 mm	07510
dans la gaine de 300 (G/GX)	1 platine perforée H = 230 mm, L = 230 mm	06819

20 écrous clipsables pour platines perforées		réf.
	M4	05114
	M5	05115
	M6	05116

Accessoires d'installation



06619

09915

désignation	réf.
5 Pratic	06619
plat 12 x 2 pour Prisma G	07046
équerre spéciale	09915

Equerre permettant d'installer des plaques de montage (plaques pleines, platines perforées) de l'appareillage spécifique, des goulottes...

Rails Multifix



désignation		réf.
rail Multifix avec 2 pattes de fixation non réglables	L = 430 mm	07501
rail Multifix	L = 430 mm	07502
■ avec 2 pattes de fixation réglables en profondeur et graduées pour indiquer directement la cote utile sous plastron		
■ orientable à 30° en position basse		
rail Multifix percé à chaque extrémité pour une fixation directe sur le fond du coffret ou de l'armoire	L = 470 mm	07551
2 rails Multifix	L = 1750 mm	09850
platine Multifix cuvette livrée avec 2 pattes de fixation	L = 420 mm	07509
■ cote utile sous plastron : 160 mm		

accessoires pour rail Multifix ou symétrique		réf.
10 réhausse H = 15, largeur 18 mm		14860
2 supports pour Multifix incliné à 45°		07552
10 butées de blocage latéral pour Multifix, rails symétrique et asymétrique		14915
1 butée pour Multifix ou rail symétrique		07180

20 écrous coulissants pour rails Multifix		réf.
	Ø A	Ø B
	M3	M5
	M4	M6
	M5	M3
	M6	M4
		09923
		09924
		09925
		09926

Installation blocs de jonction



07558

désignation	réf.
platine support de bornes	07558
Installation de bornes de jonction dans la gaine	
désignation	réf.
2 supports rail et collecteur	07548

Circulation de filerie



07301



07328

désignation		réf.
5 bracelets horizontaux	30 mm x 48 mm	07300
	60 mm x 48 mm	07301
capot cache-filerie pour bracelet horizontal	H = 30 mm	07332
	H = 60 mm	07333
4 guide-fils (uniquement sur bracelet H = 60)		07302
10 bracelets verticaux		07305
capot cache-filerie verticale, L = 1000 mm		07334
10 supports de goulottes		07320
échelles à câbles		réf.
2 échelles à câbles pour armoire et coffrets		07326
4 échelles à câbles pour gaine de 300 mm (Prisma G, GX)		07328

Accessoires de finition

désignation	réf.
obturateur 1 bande beige Prisma, L = 1000 pour appareillage Multi 9 (H = 46 mm)	07340
obturateur 72 x 72 beige Prisma	07347
lot de poinçons Ø 22 et 46 pour perçage de l'obturateur 72 x 72	03112
obturateur fractionnable beige Prisma pour Compact NS100/250 et Interpack IN125/160T montage vertical (H = 80 mm, L = 122 mm)	07348
bombe de peinture beige Prisma	09059
pinceau de retouche beige Prisma	09058
éclairage de porte	07991

désignation		réf.
12 porte-étiquettes	18 x 35	07351
	18 x 72	07353
	25 x 85	07355
12 plaques à graver	18 x 35	07352
	18 x 72	07354
	25 x 85	07356
porte-étiquettes adhésifs beige Prisma 10 porte-étiquettes L = 430 mm		07360
4 charnières pour plastron		09053
5 pochettes en plastique souple		05207
1 pochette porte-plans rigide adhésive		06617
dispositif de cadenassage		réf.
Permet d'installer 3 cadenas. Pour G, GX, GK (sauf GK équipée de serrure EURO)		09934

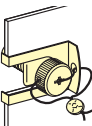
Visserie classe 8.8



07028



07026



09927

jeux de 20 boulons avec 2 rondelles contact et 1 rondelle plate		réf.
M8 x 20		07028
M8 x 25		07029
M8 x 30		07044
jeux de 40 vis avec 2 rondelles contact		réf.
M6 x 16		07027
jeux de 20 boulons avec 2 rondelles contact		réf.
M6 x 20		07026
M10 x 20		07085
M10 x 25		07030
M10 x 30		07086
M10 x 35		07087
M10 x 40		07088
M10 x 45		07089
M10 x 50		07090
désignation		réf.
visserie de dépannage		07395
lot de 4 vis plombables		09927

Poignées, serrures spéciales



05530

Pour autres adaptations, consulter le catalogue.

pour GK		réf.
bouton verrou avec 2 clés 405		05530
poignée (L = 155 mm) avec serrure avec 2 clés 405		05580
poignée avec serrure Euro Din avec 2 clés 1242 E		05590
pour G, GX, GK		réf.
adaptation pour poignée 09930, 09935, 09940, et pour toutes les portes des coffrets Prisma G, Prisma GX, Prisma GK après retrait du barillet 405 livré d'origine		
barillet + 2 clés 2433 A		09933
barillet + 2 clés 455		09945
barillet + 2 clés 1242 E		09942
barillet + 2 clés 3113 A		09943

Accessoires de climatisation



épingles chauffantes		réf.
60 W, 230 V		07992
150 W, 230 V		07993
250 W, 230 V		07994

Ventilateur

- ensemble composé d'un ventilateur axial, d'une grille et d'un filtre
- Tension 230 V
- IP54.

puissance (w)	débit m³/h (1)	réf.
18	83	07988
38	170	07989

(1) débit sans contre pression avec filtre standard.

accessoires		réf.
plastron support ventilateur avec découpe (5 modules)		07984
grille porte-filtre		07985
filtre standard		07982
filtre fin		07983
plastron support filtre avec découpe (5 modules)		07984
thermostat		07999
ouïes de ventilation		02991
plastron aéré		section de passage de l'air
H = 50	S = 65 cm²	07980
H = 250	S = 425 cm²	07981

Largeur en pas des appareils Multi 9

description	largeur en pas de 9 mm	1P	1P + N 2P	3P	4P
ampèremètre analogique AMP	8				
ampèremètre numérique AMP	4				
auxiliaire C32H-DC	1-2				
auxiliaire NO/NF	2				
auxiliaire de contacteur ACTp et ACTr	2				
auxiliaire de contacteur ACTo+f	1				
bloc Vigi C60 ≤ 25 A		3		6	6
bloc Vigi C60 ≤ 40 et 63 A		4		7	7
bloc Vigi XC40		3		4	5
bloc Vigi XC40 (30 mA)		3		5	5
bloc Vigi C120 tous calibres		7		10	10
boutons-poussoirs	2				
combinés inter. fusible	2	4		6	8
commutateurs CM	2	4			
commutateur bi rappel à zéro	6				
commutateur d'ampèremètre CMA	6				
commutateur de voltmètre CMV	6				
commutateur 2 directions CME	6				
commutateur 4 directions CMD	6				
compteur d'énergie CE, CEr	12				
compteur CE ch.	6				
compteur d'impulsion CI	4				
compteur horaire CH	4				
contacteur CT 16/25 A	2	2		4	4
contacteur CT 40/63/100 A		4-6		4-6	6-12
contacteur CT : auxiliaire ACTc	2				
contacteur délest. mono CDS	10				
contacteur délest. mono CDS _c et CDS _t	16				
contacteur délest. CDS tri				16	
contrôleur d'isolement SM21	8				
contacteur statique TC16-6 A	5	7			
contacteur statique TC16-10/16 A	7	9			
disjoncteur Déclit, DPN, DPN N		2			
disjoncteur différentiel DPNa Vigi		4			
DPN, DPN N Vigi					
disjoncteur C32H-DC	2	4			
disjoncteur C60a/N/H/L/LMA	2	4		6	8
disjoncteur C120/N/H	3	6		9	12
disjoncteur NC100	3	6		9	12
disjoncteur NG125	3	6		9	12
auxiliaire 2 OF ou OF + SD	1				
auxiliaire ID, DPN, C60, C120	1-2-4				
auxiliaire MX + OF ou MN	2				
auxiliaire MN[S]	4				
disjoncteur NG125 Vigi[S]		11		18	21
disjoncteur NG125 Vigi I/S/R		11		20	23
disjoncteur P25 M				5	
auxiliaires MN	1				
auxiliaires MX	2				
disjoncteur Réflex XC40		8		10	12
extension TL, ETL	2				
extension ERL	2				
fréquence-mètre FREQ	4				
intercalaire	1				
interrupteur 20 A et 32 A	2	2		4	4
interrupteur 40, 63, 100, 125 A	2	4		6	8
interrupteur bi-jonction IB		4			
interrupteur crépusculaire IC200	5				
interrupteur crépusculaire IC2000	7				
interrupteur crépusculaire IC2000P	10				
interrupteur crépusculaire ICWo, ICWs	6				

description	largeur en pas de 9 mm	1P	1P + N 2P	3P	4P
interrupteur crépusculaire IC7502	10				
interrupteur différentiel ID-RCCB		4			8
interrupteur fusible IF	2	4		6	8
interrupteur horaire IHP, IHH, IH	2				
interrupteur horaire IH	6				
interrupteur horaire IH	12				
IHP journalier	5				
IHP hebdo.	5				
IHP hebdo. impuls. 1-2 canaux	7				
IHP hebdo. impuls. 3-4 canaux	10				
IHP annuel	10				
minuterie MIN	2				
minuterie MINe, MINp, MINs	2				
module d'intensité MDI	1				
module de tension MDU	1				
parafoudre bi PF8, PF15		4			
parafoudre bi PF30 (r)		6			
parafoudre tétra PF8, PF15, PF30 (r)				8	
parafoudre tétra PF65 (r)				14	
parafoudre uni PE65/40/15/8	2				
parafoudre téléphonique PRC	2				
porte-fusibles SBI 14 x 51	3	6		9	12
porte-fusibles SBI 22 x 58	4	8		12	16
préavis d'extinction PRE	2				
prise de courant PC confort 10 A et 16 A		5			
prise de courant PC 20 A	8				
régulateur RGo	6				
régulateur REG/REG1/REG2	8				
régulateur REGad1, REGad2	12				
relais bas niveau RBN	2				
relais délestage divisionnaire DD	2				
relais inverseur DSC	2				
relais RCU/RCI/RCP et RCC	4				
relais temporisé RTA, RTB, RTC, RTH, RTL, RTMF	2				
relais RLI	2				
sectionneur fusible STI	2	2-4		6	6
sonnerie et ronfleur	2				
télécommande TBS	8				
télécommande Tm60-Tm120	7				
télérupteur TL 16 A et 32 A, ETL 16 et 32 A	2				
télérupteur inverseur TLI 16 A, TLc	2				
télérupteur TLM, TLs	2				
télérupteur : auxiliaires ATLC+c, ATLC+s	2				
télérupteur : auxiliaires ATLT, ATLz	2				
télérupteur : auxiliaire ATL4	4				
télérupteur statique TC16P 10/16 A	7	9			
temporisateurs	2				
thermostat TH3 et TH6	8				
thermostat THP1	10				
thermostat THP2	10				
transformateur TR, 4 VA	4				
transformateur TR, 8 et 16 VA	4				
transformateur TR, 25 VA	6				
transformateur TR, 16 à 63 VA	10				
Vigilhom EM (9, 9B)	8				
Vigilhom TR5A et SM21	11				
Vigirex RH (10 A/AP, 320 A/AP, 328 A/AP)	8				
voltmètre analogique VLT	8				
voltmètre numérique VLT	4				
voyants lumineux	2				

Enclosures and cubicles

Functional system Prisma G, GX, GK

Catalogue



Merlin Gerin

Modicon

Square D

Telemecanique

Schneider
 **Electric**

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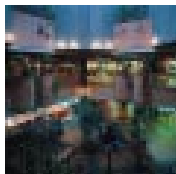
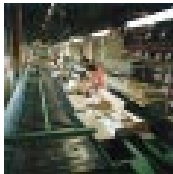
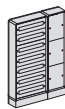
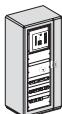
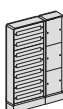
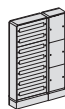
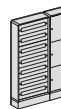
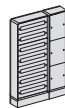
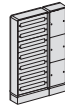
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Selection table

Prisma functional system

	Commercial buildings			Industrial buildings			
							
Main low voltage switchboards up to 630 A for higher ratings, please consult us	Prisma G functional system, p. 15		Prisma P functional system, refer to catalogue ART 94849	Prisma G functional , system p. 15		Prisma P functional system, refer to catalogue ART 94849	
	 <i>Prisma G</i>	 <i>Prisma GX</i>	 <i>Prisma P</i>	 <i>Prisma G</i>	 <i>Prisma GX</i>	 <i>Prisma GK</i>	 <i>Prisma P</i>
Secondary distribution switchboard	Prisma G functional system, p. 15		Prisma P functional system, refer to catalogue ART 94849	Prisma G functional system, p. 15		Prisma P functional system, refer to catalogue ART 94849	
	 <i>Prisma G</i>	 <i>Prisma GX</i>	 <i>Prisma P</i>	 <i>Prisma GX</i>	 <i>Prisma GK</i>	 <i>Prisma P</i>	 <i>Prisma PH</i>
Final distribution switchboard	Prisma G functional system, p. 15			Prisma G functional system, p. 15			
	 <i>Prisma G</i>	 <i>Prisma GX</i>		 <i>Prisma GK</i>			
Building machinery switchboard	Prisma G functional system, p. 15			Prisma G functional system, p. 15		Prisma P functional system, refer to catalogue ART 94849	
	 <i>Prisma G</i>	 <i>Prisma GX</i>		 <i>Prisma GK</i>		 <i>Prisma PH</i>	

Prisma G electrical switchboards



Prisma G, GK enclosures and Prisma GX cubicles

For a dependable electrical installation

Total compatibility between Schneider switchgear devices and the Prisma system helps build dependability into every electrical installation.

The design of the system has been validated by type tests and benefits from experience acquired with Schneider customers over many years.

An electrical installation capable of evolving

Modular in structure, Prisma can keep pace with evolving switchboard needs and integrate new functions as required. Maintenance is carried out with the switchboard de-energised. Maintenance operations are fast and easy thanks to total access to all switchgear devices and the use of standard components.

Total safety for users

Switchgear devices are installed behind a protective front plate that leaves only the operating handle visible. The electrical installation is protected and users can work in total safety.

When implemented in compliance with Schneider recommendations, the Prisma functional system can be used to build electrical switchboards that comply with international standard IEC 60439-1.

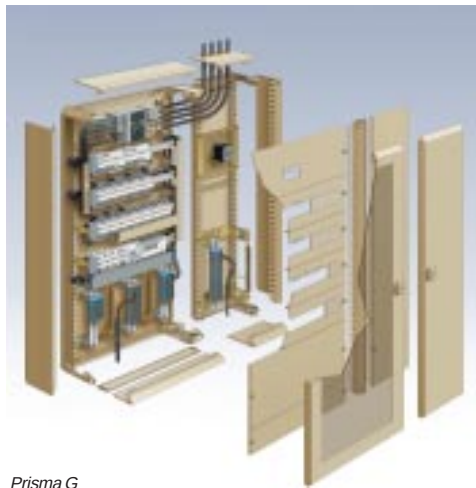


Prisma GX cubicle



Prisma GK enclosure

Prisma G functional system



Prisma G

The Prisma G functional system can be used to build all types of main, secondary and final low-voltage switchboards up to 630 A, for industrial and commercial buildings.

The same components, whether for switchgear installation, current distribution, cable running, etc., may be installed in any of four types of enclosures or cubicles, depending on the size of the switchboard and the installation site.

■ Prisma G enclosures:

- IP30, 40, 43,
- IK07, 08,
- may be dismantled,
- may be joined side by side or one on top of the other,
- 300 mm duct may be added on side, top or bottom,
- 6 heights ranging from 200 to 1200 mm,
- width: 550 mm;

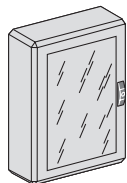
■ Prisma GX cubicles:

- IP30, 40, 43,
- IK07, 08,
- may be dismantled,
- may be joined side-by-side,
- a Prisma G enclosure may be added on top,
- 300 mm add-on duct,
- 2 heights: 1550 and 1850 mm,
- width: 550 mm;

■ Prisma GK enclosures:

- IP55,
- IK10,
- may be dismantled,
- may be joined side by side and/or top bottom,
- 300 mm add-on duct,
- 7 heights from 450 to 1750 mm,
- width 600 mm.

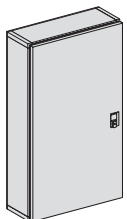
General characteristics



Prisma G enclosure



Prisma GX cubicle



Prisma GK

Enclosure

■ material

- Prisma G, GX, GK: sheet steel,
- anti-corrosion protection,

■ surface treatment

Anti-corrosion coating, smooth or textured thermal polymerised polyester-epoxy powder. Colour Prisma beige;

■ busbar insulating supports

All plastic parts withstand fire or excessive heat caused by internal electrical phenomena, as per IEC 695-2.1: 960° 30 s / 30 s for supports for live metal parts;

■ building up installations

Functional Prisma G components can be used to build switchgear assemblies that comply with standards IEC 439-1 and EN 60439-1, with the following electrical characteristics:

- rated insulation voltage for the main busbars at the rear of the switchboard: 1000 V,
- rated operating current I_e (40° C): 630 A,
- peak withstand current: $I_{pk} = 53$ kA,
- short time withstand current: $I_{cw} = 25$ kA rms / 1 s,
- frequency 50 / 60 Hz.

Prisma	G	GX	GK
Choice of casings: page	62	67	69
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Electrical switchboards up to 3200 A

Prisma P functional system,
refer to Prisma P functional system
catalogue, ART 94849



The Prisma P functional system can be used to build modular evolving main and secondary distribution switchboards up to 3200 A, for industrial and commercial buildings.

It includes:

- front plates and mounting plates for the installation of switchgear and controlgear
- busbars (Linergy, etc.) and distribution blocks (Polypact, Polybloc, Multiclip, etc.)
- wiring accessories
- other barriers that can be mounted inside to provide form 2, 3 or 4 separation.

General characteristics

- metal enclosures
- anti-corrosion coating, thermal polymerised polyester-epoxy powder
- colour: Prisma beige
- rated insulation voltage for the main busbars: 1000 V
- peak withstand current: I_{pk} 187 kA
- short time withstand current: I_{cw} 85 kA rms/1 s
- busbar insulating supports : all plastic parts withstand fire or excessive heat caused by internal electrical phenomena, as per IEC 695-2.1: 960° 30 s / 30 s for supports for live metal part
- compliance with standards IEC 60439-1
- degree of protection as per IEC 529
- degree of protection against mechanical impacts as per EN 50102.

Prisma P



- IP20, 30, 31 and 54
- IK08
- sheet steel, anti-corrosion protection
- can be dismantled
- extendible by joining frames side-by-side widthwise or depthwise
- front or rear connections
- form 2, form 3 and form 4 partitioning
- 200, 300 and 400 mm wide built-in or add-on ducts
- 2000 mm high
- 700, 900 and 1100 mm wide
- 400 or 600 mm deep.

Prisma PH



- IP55
- IK10
- heavy-duty cubicles for installation in severe environments
- phosphatised and chrome passivated TC sheet steel, 1.5 mm thick
- extendible by joining frames side-by-side widthwise or depthwise
- front or rear connections
- form 2 and form 3 and form 4 partitioning
- 300 mm add-on ducts
- 2000 mm high
- 700 mm wide
- 500 or 700 mm deep.

Prisma G functional system

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Prisma G/GX

Examples of configurations with distribution blocks

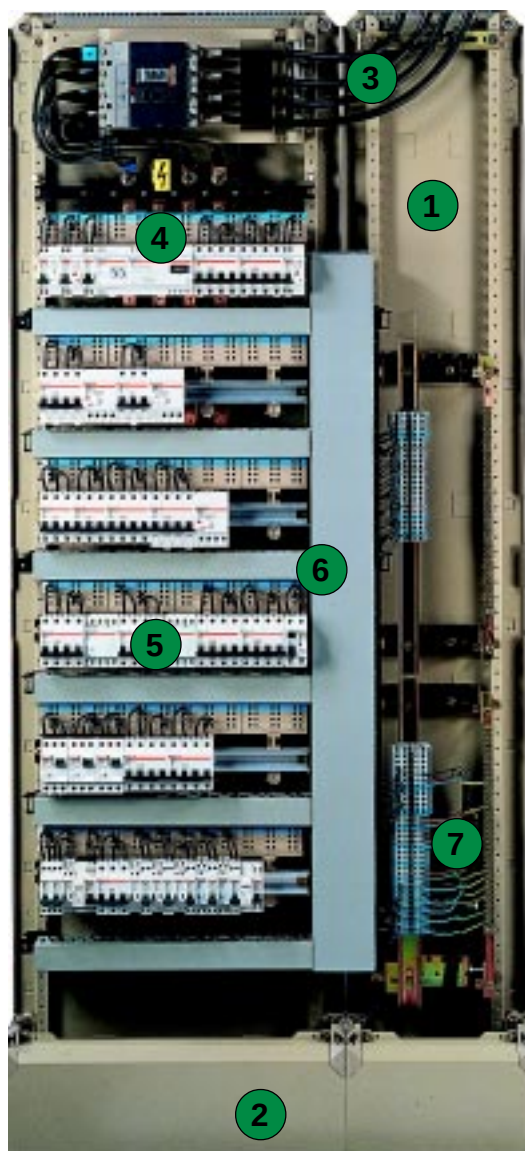
Distribution using Polybloc unit



Distribution using Distribloc unit



Distribution by busbars at the rear of the cubicle



Prisma GX cubicle:

- 1 300 mm duct.
- 2 Built-in plinth.
- 3 Passage of cables into the 300 mm duct.
- 4 Current distribution by busbars at the rear of the cubicle.
- 5 Distribution by Multiclip.
- 6 Cable running in trunking.
- 7 Connection to terminals in 300 mm duct.

Supply to busbars

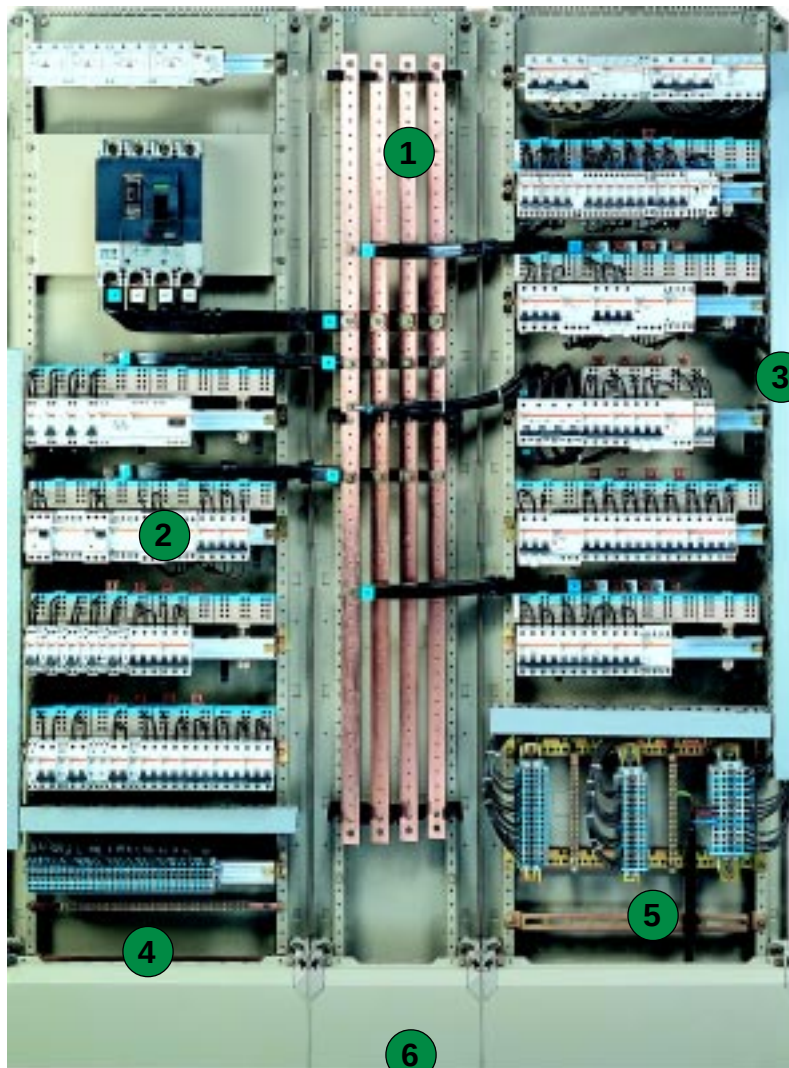


Direct supply via pre-fabricated connection assembly.

Prisma G/GX

Examples of configurations with busbars

Distribution by busbars in the duct



Prisma GX cubicle:

- 1 Overall distribution of current via busbars in 300 mm duct.
- 2 Distribution via Multiclip.
- 3 Vertical cable running in trunking.
- 4 Connection to terminals on Multifix rail.
- 5 Connection to terminals on mounting plate.
- 6 Built-in plinth, with removable front panel.

Connection of devices



Complete access to points of connection.

Distribution by busbars in the duct

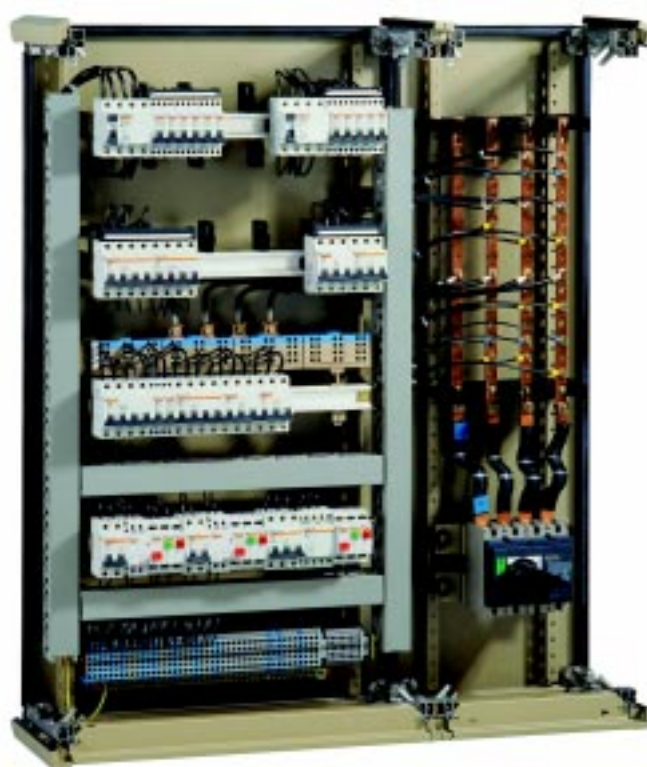


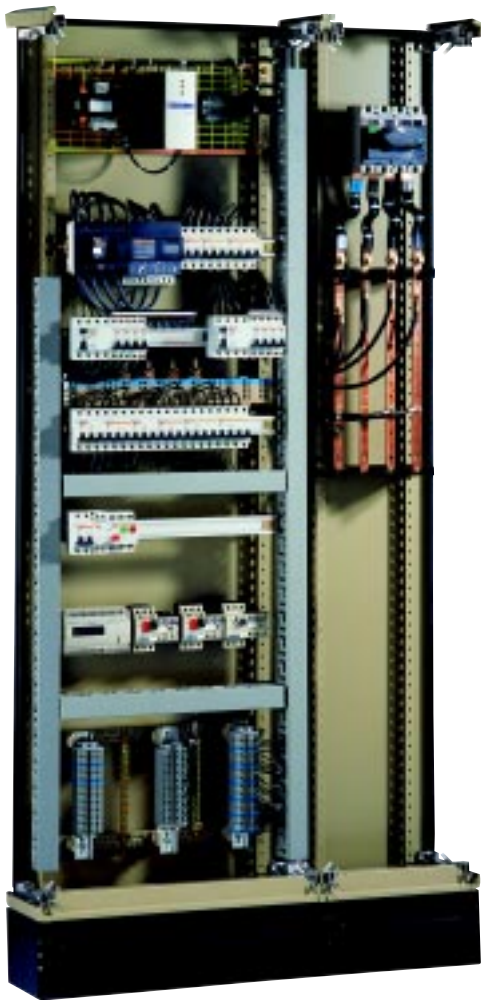
Top connected Compact NS400 used as incoming unit



*Bottom-connected Compact NS400 used as incoming unit.
Distribution block in the duct.*

Prisma GK Examples of switchboards configurations





Determining the catalogue numbers

Modular design

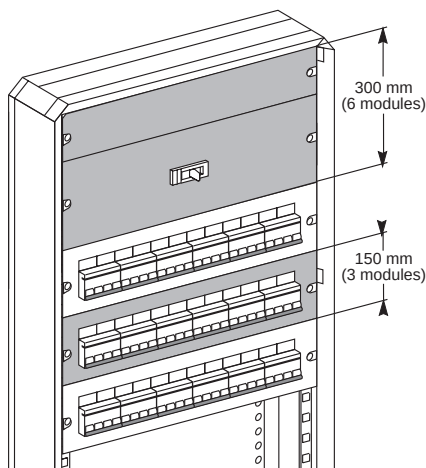


Modular design

The modular design of the Prisma functional system is a major factor in facilitating the design of equipment. It also simplifies modifications during design and throughout the life of the switchboard.

All mechanical and electrical functions are carried out by prefabricated and tested parts, each occupying a predetermined and optimised vertical height. Vertical heights are expressed as the number of Prisma modules, each representing 50 mm.

For example, an NS 160 circuit breaker equipped with a prefabricated connection 07205 and a Polybloc unit 07100, installed horizontally, occupies 300 mm, i.e. 6 modules, in the switchboard.



Practical help in designing switchboards



Design guides

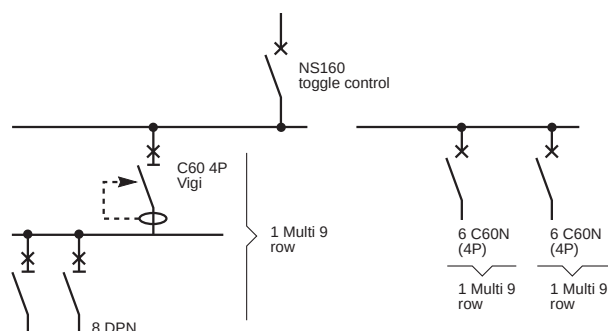
Design guides are short booklets containing:

- an example on how to determine the equipment required on the basis of an electrical diagram;
 - illustrated selection tables that may be used to rapidly determine the right catalogue numbers;
 - several forms specially designed for:
 - listing the catalogue numbers to be ordered,
 - laying out the switchgear in the switchboard,
 - facilitating quotations;
 - illustrated examples of correctly installed and connected switchboards.
- Schneider offers the following design guides:
- one for switchboards up to 630 A;
 - one for switchboards up to 3200 A.

They are free and may be obtained from your nearest Schneider sales office.

Using the circuit diagram

Draw up the list of devices to be installed grouping them together in families.

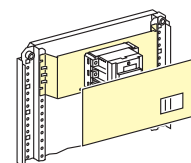


And using the catalogue number tables

1 For the incoming unit, if it is not installed in the duct, determine:

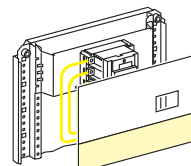
- the number of vertical modules required;
- the catalogue numbers for mounting plates and front plates.

breakers	No. of vert. mod.	mounting plate	front plate
NS160	4	07515	07824



2 Determine the prefabricated upstream connection and its width so as to connect the incoming unit to the busbars, or the distribution block (Polybloc...) and its width.

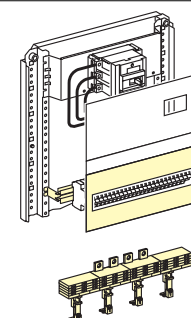
connection	No. of vert. mod.	prefab. connect.	front plate
connection	2	07205	07802



3 For the outgoing units, determine:

- the number of vertical modules required;
- the catalogue numbers for the mounting plate and the front plate.

Multi 9 devices	No. of vert. mod.	Multifix rail	front plate
1 row Multi 9 (1)	4	07501	07814
1 row Multi 9 (1)	4	07501	07814
1 row Multi 9 (1)	4	07501	07814
1 row Multi 9 (1)	4	07501	07814
distribution block		quantity	cat. No.
Multiclip 3P + 2N		1	07005
Multiclip 3P + N		1	07004
(1) 48 x 9 mm modules.			

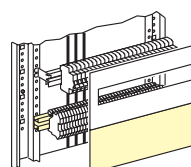


■ the distribution block: Multiclip, Distribloc, Comb...

4 For the terminal blocks, determine:

- the number of vertical modules required;
- the catalogue numbers for the mounting plate and the front plate.

terminal blocks	No. of vert. mod.	Multifix rail	front plate
terminal blocks	3	07502	07803

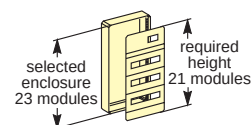


21

5 Add up the number of modules required.

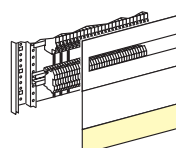
6 Based on the degree of protection IP, on the number of modules required, choose the enclosure or cubicle.

enclosure	cat. No.
enclosure (23 modules)	09006
+ transparent door (IP40)	09046



7 If the devices to be installed do not occupy the whole enclosure, complete the front panel with an extra plain front plate.

extra modules	extra plain front plate
23-21 =	2
	07802



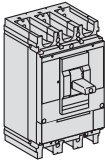
8 Determine the necessary accessories:

- for distribution (distribution blocks, busbars, Multiclip, comb busbars, etc);
- for cable running;
- for the overall installation.

description	quantity	cat. No.
4 Cu busbars 160 A	1	07021
1 busbars support	3	07025
earth/neutral bar	1	07047
horizontal cable straps	3	07300



Compact and Vigicompact circuit breaker

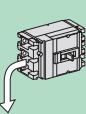
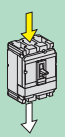
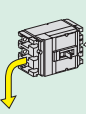
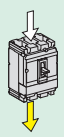


Description of device	
	number per row
400 to 630 A, vertical mounting, fixed, front-connected	
NB 400/NS 400, toggle control	1
NB 400/NS 400, direct or extended rotary handle	1
NB 600/NS 630, toggle control	1
NB 600/NS 630, direct or extended rotary handle	1
Vigi NS 400, toggle control	1
Vigi NS 400, direct or extended rotary handle (1)	1
Vigi NS 630, toggle control	1
Vigi NS 630, direct or extended rotary handle (1)	1

Note:
(1) To access the Vigi module test button, order the special collar **29285** with the circuit breaker.



Compact NS400 circuit breaker used as incoming unit to supply busbars at the rear of the enclosure.

Installation						Upstream connection			Downstream connect./distribution			
	vertical modules required H=50 mm	mounting plate	cut-out front plate	add. top front plate	add. bottom front plate	description	add. mod.	add. front plate	description	add. mod.	add. front plate	
						 			 			
11	07523	07834	07802			direct to device via spreaders distance between connection centres 52.5 mm 3P 32490 4P 32491	0		direct to device by 4P multi-stage distribution block 400 A, 15 circuits 07059	0		
11	07524	07835	07802						by busbars (NS400 toggle control) prefab. conn. for rear busbars	5		07805
14	07523	07834	07803	07802		distance between connection centres 70 mm 3P 32492 3P 32493	1 1	07801 07801		0		
13	07523	07834	07802	07802		if lugs are used, see device documentation	1 1	07801 07801				
13	07524	07835	07802	07802								
16	07523	07834	07803	07804								
16	07524	07835	07803	07804								

Upstream connection

Connection of Compact NS 400 to 630 A units using cables $\geq 240 \text{ mm}^2$, with crimped lugs.

Two solutions:

■ small lugs (for direct connection to switchgear terminals)

□ for 3P device

cable cross-section	set of 3 lugs
240 mm ²	32500
300 mm ²	32502

□ for 4P device

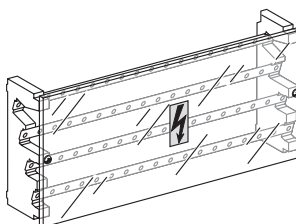
cable cross-section	set of 4 lugs
240 mm ²	32501
300 mm ²	32503

■ use 52.5 mm pitch spreaders for connection to normal lugs

type of device	1 set of pitch spreaders
3P device	32490
4P device	32491

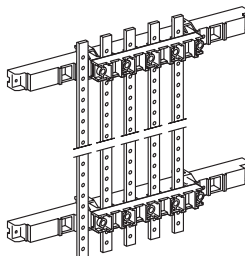
4P multi-stage distribution block

See page 94



Rear busbars

See page 80





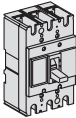
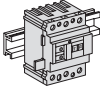
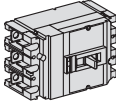
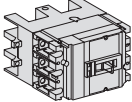
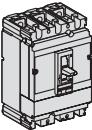
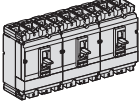
Incoming unit on a 160 A switchboard



Direct installation of the Polybloc unit **07101** (nine 10 mm² outgoing per phase) downstream from the incoming unit.

Incoming unit on a 250 A switchboard

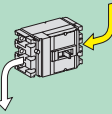
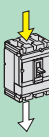
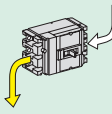
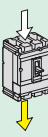


Description of device		number per row
Compact circuit breaker 	100 A, vertical mounting, fixed, front-connected, toggle control	
	NB 50	5
	NB 100	4
Compact and Vigicompact circuit breaker 	160 A, vertical mounting, fixed, front-connected, toggle control, mounting on Multifix rail	
	NSA 125/160 Vigi NSA 125/160	see page 32
Compact and Vigicompact circuit breaker 	100 to 250 A, horizontal mounting, fixed, front-connected	
	C 100 E	1
	NB 225, NS 100/250, toggle handle	1
	NB 225, NS 100/250 with measurement module toggle	1
	NB 225, NS 100/250, direct or extended rotary handle	1
	NB 225, NS 100/250, motor mechanism	1
	Vigi NS 100/250, toggle handle	1
	Vigi NS 100/250, direct or extended rotary handle	1
	Vigi NS 100/250, motor mechanism	1
Compact and Vigicompact circuit breaker 	100 to 250 A, horizontal mounting, plug-in, front-connected	
	NS 100/250, 3P, toggle handle	1
	NS 100/250, 4P, toggle handle	1
Compact and Vigicompact circuit breaker 	100 to 250 A, vertical mounting, fixed, front-connected	
	C 100 E	4
	NB 225, NS 100/250, toggle handle	1
	NB 225, NS 100/ 250, direct or extended rotary handle	1
	NB 225, NS 100/250, motor mechanism	1
	Vigi NS 100/250, toggle handle	1
Compact and Vigicompact circuit breaker 	100 to 250 A, vertical mounting, fixed, front connected (2)	
	NS 100/160, toggle handle	4x2P, 4x3P, 3x4P
	NS 100/160, direct or extended rotary handle	3x2P, 3x3P, 3x4P
	NS 100/160, motor mechanism	4x2P, 4x3P, 3x4P
	NB 225, NS 250, toggle handle	4x2P, 4x3P, 3x4P
	NB 225, NS 250, direct or extended rotary handle	3x2P, 3x3P, 3x4P
	NB 225, NS 250, motor mechanism	4x2P, 4x3P, 3x4P
	Vigi NS 100/160, toggle handle	3x2P, 3x3P, 3x4P
	Vigi NS 100/160, direct or extended rotary handle (1)	3x2P, 3x3P, 3x4P
	Vigi NS 100/160, motor mechanism (1)	3x2P, 3x3P, 3x4P
	Vigi NS 250, toggle handle	3x2P, 3x3P, 3x4P
	Vigi NS 250, direct or extended rotary handle (1)	3x2P, 3x3P, 3x4P
	Vigi NS 250, motor mechanism (1)	3x2P, 3x3P, 3x4P

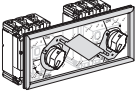
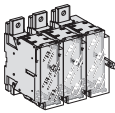
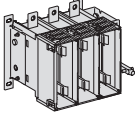
Note:

(1) For access to the Vigi module test button, order the special collar 29285 with the circuit breaker.

(2) Vertically mounted 100 to 250 A circuit breakers may be combined on the same row under the following conditions: same type (normal circuit breaker or Vigi version), same control (toggle, rotary handle or motor mechanism), no terminal spreaders.

Installation						Upstream connection			Downstream connect./distribution		
	vertical modules required H=50 mm	mounting plate	cut-out front plate	add. top front plate	add. bottom front plate	description	add. mod.	add. front plate	description	add. mod.	add. front plate
						 			 		
	5	07580	07839			direct to device	0		direct to device	0	
	5	07580	07839								
	4	07504 + 39993	07820			direct to device	0		direct to device	0	
	4	07515	07824			direct to device	0		direct to device	0	
	4	07515	07856			by prefabricated connection assembly 07205 for cables > 90 mm ²	2	07802	Polybloc 160 A 6 circ. 4P 07100	0	
	4	07517	07827			if lugs are used, see device documentation			Polybloc 250 A 9 circ. 3P 07103	0	
	4	07518	07827						Polybloc 250 A 9 circ. 4P 07101	1	07801
	4	07515	07852						Polybloc 250 A 12 circ. 4P 07102	2	07801x2
	4	07517	07855						by 4P multi-stage distribution block		
	4	07518	07855						160 A, 15 circuits 07057	5	07805
									250 A, 15 circuits 07058	5	07805
	4	07534	07824			direct to device	0		by multi-hole terminals		
	4	07534	07824			to terminal blocks	5	07551+ 07805	terminals 6x35 ² (set of 3) 29248	0	
						if lugs are used, see device documentation			terminals 6x35 ² (set of 4) 29249	0	
									by busbars (fixed devices)		
									prefab. conn. for rear busbars 160 A, 07033	2	07802
									prefab. conn. for rear busbars 250 A, 07034	2	07802
	5	07504 + 39993	07850			direct to device	0		direct to device	0	
	9	07516	07853	07802	07802	direct to device	0		direct to device	0	
	9	07517	07853	07802	07802	via spreaders	1	07801	by 4P multi-stage dist. block	5	07805
	9	07518	07853	07802	07802	spreaders 3P 31563	1	07801	160 A, 15 circuits 07057	5	07805
	11	07516	07854	07802	07802	spreaders 4P 31564			250 A, 15 circuits 07058		
						if lugs are used, see device documentation			by multi-hole terminals		
									terminals 6x35 ² (set of 3) 29248	0	
									terminals 6x35 ² (set of 4) 29249	0	
									by busbars		
									prefab. conn. for rear busbars 250 A, 07037	0	
	6	07516	07853		07801	direct to device	0		direct to device	0	
	6	07517	07853		07801	from busbars by 100 A prefabricated connection assembly 07038	0				
	6	07518	07853		07801	if lugs are used, see device documentation					
	9	07516	07853	07802	07802						
	9	07517	07853	07802	07802						
	9	07518	07853	07802	07802						
	8	07516	07854		07801						
	8	07517	07964		07801						
	8	07518	07964		07801						
	11	07516	07854	07802	07802						
	11	07517	07964	07802	07802						
	11	07518	07964	07802	07802						

Compact NS 100/250 Fuse switch, Fupact

Description of device		number per row
Manual source changeover 	100 to 250 A, vertical mounting, fixed, front connected, rotary handle	
	NS 100/250 with mechanical interlocking, ref. 29347	1
	NS 100/250 with mechanical interlocking, ref. 29369 (from 05/99)	
Telemecanique fuse switch 	100/160 A, vertical mounting	
	GS1 N3	
Fupact 	50/160 A, vertical mounting	
	UC 50-UD 63	2x3P, 2x4P
	UC /UD 125, UD 160	2x3P, 1x4P

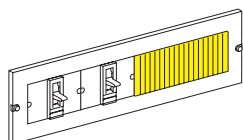
(1) Cannot be installed behind door.

Upstream connection

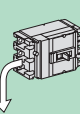
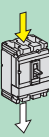
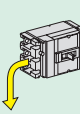
Connection of 100 to 250 A units using cables $\geq 120 \text{ mm}^2$, with crimped lugs.
Only use the following lugs:

cross-section of cables set	of 4 lugs
120 mm^2	29256
150 mm^2	29257
185 mm^2	29258

Accessories

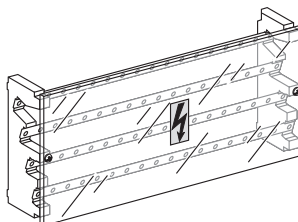


description	cat. No.
divisible blanking plate H = 80, W = 122	07348

Installation						Upstream connection			Downstream connect./distribution			
	vertical modules required H=50 mm	mounting plate	cut-out front plate	add. top front plate	add. bottom front plate	description		add. mod.	add. front plate	description	add. mod.	add. front plate
						 				 		
	10	07513	07954	07802	07803	direct to device via spreaders spreaders 3P 31563 spreaders 4P 31564 if lugs are used, see device documentation	0 1 1		07801 07801	direct to device by 4P multi-stage dist. block 160 A, 15 circuits 07057 250 A, 15 circuits 07058 by multi-hole terminals terminals 6x35 ² (set of 3) 29248 terminals 6x35 ² (set of 4) 29249 by busbars prefab. conn. for rear busbars	0 5 5 0 0 2	07805 07805 07802
	10	07579	07829	07802	07803	direct to device	0			use downstream coupling accessory ref. 29358 3P and 29359 4P	0	
	8	07534		07802	07806	direct to device if lugs are used, see device documentation	0			direct to device by 4P multi-stage distribution block 250 A, 07058 15 circuits 400 A, 07059 15 circuits by busbars prefab. conn. for rear busbars 160 A (not supplied)	0 5 5 2	07805 07805 07802
	5	07511	07868			direct to device from busbars by 100 A prefabricated connection assembly 07038 if lugs are used, see device documentation	0			direct to device by 4P multi-stage distribution block 160 A, 15 circuits 07057 by busbars prefab. conn. for rear busbars 160 A	0	
	5	07511	07868				0				5 2	07805 07802

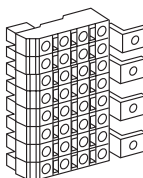
4P multi-stage distribution block

See page 94



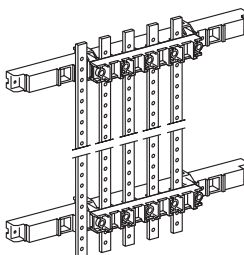
Polybloc

See page 92

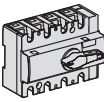
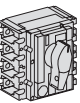
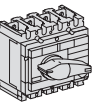
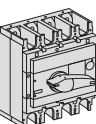
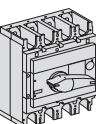
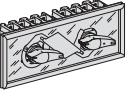
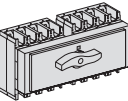


Rear busbars

See page 80

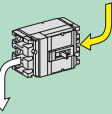
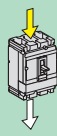
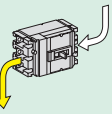
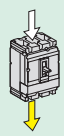




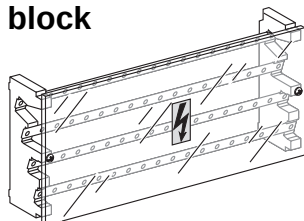
Description of device		number per row
Interpact INS 	40/160 A, vertical mounting, direct front handle, mounting on Multifix rail	
	INS 40/80	see page 32
	INS 100/160	
Interpact INS/INV 	100 to 250 A, horizontal mounting, direct or extended front handle on door, fixed, front connections	
	INS 250	1
	INV 250	
Interpact INS/INV 	100 to 250 A, vertical mounting, direct or extended front handle on door, fixed, front connections	
	INS 250	1
	INV 250	3
	100 to 250 A, vertical mounting, front connections	
	INS 250, INV 250	1
	320 to 630 A, vertical mounting, direct or extended front handle on door, fixed, front connections	
	INS 320/400, INV 320/400	1
	INS 500/630, INV 500/630	1
Manual source changeover 	100 to 250 A, vertical mounting, rotary handle, fixed, front connections	
	mechanical interlock INS 250	1
	100 to 250 A, vertical mounting, rotary handle, fixed, front connections	
	INS 250 one piece source changeover	1

(1) If a row is not completely filled, use blanking plate **07348**.

(2) To be ordered with the device.

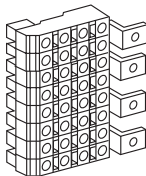
Installation						Upstream connection			Downstream connect./distribution			
	vertical modules required H=50 mm	mounting plate	cut-out front plate	add. top front plate	add. bottom front plate	description		add. mod.	add. front plate	description	add. mod.	add. front plate
						 				 		
4	07515	07865				direct to device by prefabricated connection assembly 07205 for cables > 95 ²	0			by Polybloc distrib. block Polybloc 160A 6 circ. 4P 07100 Polybloc 250A 9 circ. 3P 07103 Polybloc 250A 9 circ. 4P 07101 Polybloc 250A 12 circ. 4P 07102	0 0 1 2	07801 07801x2
							2	07802		by multi-hole terminals terminals 6x35 ² (set of 3) 29248 terminals 6x35 ² (set of 4) 29249	0 0	
										by busbars prefab. conn. for rear busbars 160A 07033 prefab. conn. for rear busbars 250A 07034	2 2	07802 07802
										by 4P multi-stage distrib. block 160A 07057 15 circuits 250A 07058 15 circuits	5 5	07805 07805
7	07516	07866			07801	direct to device	0			by multi-hole terminals terminals 6x35 ² (set of 3) 29248 terminals 6x35 ² (set of 4) 29249	1 1	07801 07801
7	07516	07867 (1)	07801	07801								
7	07516	07866			07801						2 2	07802 07802
										by busbars 160A connection to rear busbars (not supplied) 250A connection to rear busbars (not supplied)		
										by 4P multi-stage distribution block 160A 07057 15 circuits 250A 07058 15 circuits	5 5	07805 07805
10	07523	07872	07802	07802		direct to device	0			by busbars prefab. conn. for rear busbars 400A 07036	2	07802
12	07523	07872	07803	07803								
										by 4P multi-stage distrib. block 400A 07059 15 circuits	5	07805
9	07579 + 31064 (2)	07829	07802	07802		direct to device	0			use downstream coupling accessory ref. 29358 3P and 29359 4P	0	
9	07579 + 31064x2 (2)	07828	07802	07802								

4P multi-stage distribution block



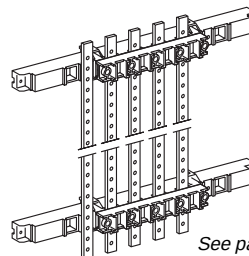
See page 94.

Polybloc



See page 92.

Rear busbars



See page 80.

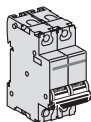


NG 125 + Distribloc



INS + Distribloc

Multi 9 switchgear (2)



Description of device

number per row
(modules = 9 mm)

vertical mounting, mounting on Multifix rail

measurement units or
Diazed fuses (Sweden)

48 modules

switchgear ≤ 40 A

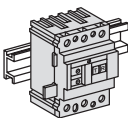
48 modules

3 x 48 modules

switchgear ≤ 125 A

48 modules

Compact circuit breaker



125/160 A, vertical mounting, fixed, front connections, mounting on Multifix rail, toggle control

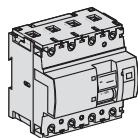
NSA 125/160

10 modules (3P)
14 modules (4P)

Vigi NSA 125/160

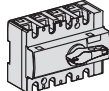
24 modules (3P)
27 modules (4P)

NG 125 modular circuit breaker



125 A, vertical mounting, mounting on Multifix rail NG 125 Vigi NG 125

Interpact INS



40/160 A, vertical mounting, direct or extended front handle, mounting on Multifix rail

INS 40/80

10 modules

INS 100/160

14 modules

INS100/160 with long terminal shields

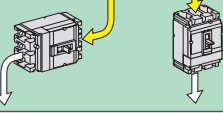
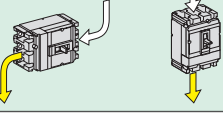
14 modules

other devices

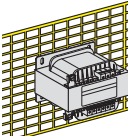
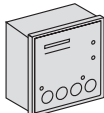
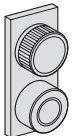
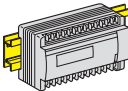
Note:

(1) See page 51.

(2) When the row of devices is incomplete, use the divisible blanking strip 07340
(H = 46 mm, W = 1000 mm).

Installation						Upstream connection			Downstream connect./distribution			
	vertical modules required H=50 mm	mounting plate	cut-out front plate	add. top front plate	add. bottom front plate	description	add. mod.	add. front plate	description	add. mod.	add. front plate	
												
	2	07501	07812			point-to-point wiring	0		point-to-point wiring	0		
	3	07501	07813			■ to a single device: direct using cables	0		with cable straps H = 30 mm 07300	0		
	8	07501 x 3	07755			■ to a row of devices: point-to-point wiring comb busbars	0 0 0					
	4	07501	07814			■ to a single device: direct to device from busbars by 100A prefabricated connection assembly 07038 ■ to a row of devices: point-to-point wiring comb busbars (100A prefabricated connection assembly 07038 for connection to busbars) by Multiclip devices ≤ 40A	0 0 0 0 0 0		with cable straps H = 30 mm 07300 H = 60 mm 07301 with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 0 1	07801	
	5	07502	07815			direct to device ≤ 50 mm ² > 50 mm ²	0 1	07801	by Distribloc Distribloc 125A 07105 (12 mod) Distribloc 160A 07106 (12 mod) by multi-stage Distribution block 125A 14 circuits 13512 (10 modules) 17 circuits 13514 (14 modules)	0 0 0 0		
	4	07501	07814			■ to a single device: direct to device using cables ≤ 50 mm ² > 50 mm ² from busbars by 100A prefabricated connection assembly 07038 ■ to a row of devices: comb busbars (100A prefabricated connection assembly 07038 for connection to busbars) by Multiclip	0 1 0 0 1	07801 07801	by Distribloc Distribloc 125A 07105 (12 mod) Distribloc 160A 07106 (12 mod) by multi-stage Distribution block 125A 14 circuits 13512 (10 modules) 17 circuits 13514 (14 modules) with cable straps H = 30 mm 07300 H = 60 mm 07301 with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 0 0 0 0 1	07801	
	3	07501	07813			direct to device in bare cable connectors	0					
	4	07501	07814			direct to device using cables ≤ 70 mm ²						
	5	07501	07815			direct to device using cable ≤ 95 mm ²						
	2	(1)	07812									
	3	(1)	07813									
	4	(1)	07814									
	5	(1)	07815									
	6	(1)	07816									



	Description of device	
		number per row (width in 9 mm modules)
LV/LV transformer 	installation on slotted plate, behind plain front plate	
	ABL-6 until 400 VA	W = 420 mm
metering and control 	mounting on Multifix rail	
	Multi 9 meters device	5
	mounting on front plate	
	72x72 NE meters device round body	6
	square body	6
push-buttons with lamps 	push-buttons with lamps Ø 22.2	
	on front plate with knockouts	12
	on blanking plate 07347 (72x72) (1)	12
Vigilhom 	Vigilhom TR22A, EM9 (vertical mounting) + 6 72x72 NE meters	
		1 TR + 6 NE 72x72
PLCs 	vertical mounting behind transparent front plate	
	TSX 07 Nano PLCs	W = 432 mm
	TSX 17 Micro PLCs	W = 432 mm

Note:

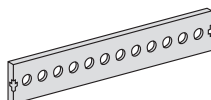
(1) For holes in blanking plate 07347, used set of punches cat. no. **03112** including Ø 22 and Ø 46.

(2) transparent front plate.

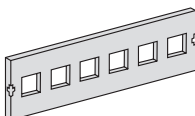
Front plates

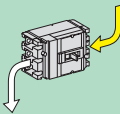
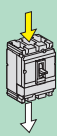
for metering devices

front plate for signal lamp and push-button	cat. No.
(2 mod.)	07894

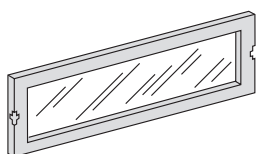


front plate for measurement unit	cat. No.
round body (3 mod.)	07896
square body (3 mod.)	07898



Installation						Upstream connection			Downstream connect./distribution			
vertical modules required H=50 mm	mounting plate	cut-out front plate	add. top front plate	add. bottom front plate	description	add. mod.	add. front plate	description	add. mod.	add. front plate		
												
4	07570	07804			point-to-point	0		point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 0 1		07801	
3	07501	07813			direct to device	0		direct to device	0			
3		07896										
3		07898										
2		07894										
3		07896 or 07898										
4		07893										
4	07502	07890(2)			point-to-point	0		point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 1		07801	
4	07551	07890(2)										

transparent front plate

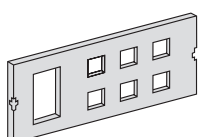


(4 mod.)
(6 mod.)

cat. No.

07890
07892

front plate for VigiloHM

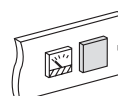


(4 mod.)

cat. No.

07893

blanking plates

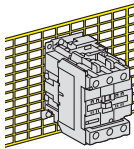
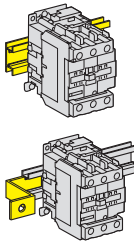


cat. No.

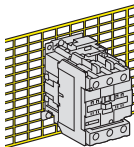
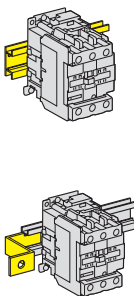
07347



LP contactor
D series



LC contactor
D series



Description of device

	mounting plate capacity
--	-------------------------

vertical mounting on Multifix rail, behind plain front plate

LP1/LP2-D09, D12, D18 with or without LA4, LA8	W = 432 mm
---	------------

vertical mounting on recessed Multifix rail, behind plain front plate

LP1/LP2-D09, D12 with LA1, LA4, LA8 (with LA2, LA3, LA6 DK1, LA6 DK2, mounting possible without front plate)	W = 420 mm
--	------------

LP1/LP2-D18 with LA1, LA4, LA8 (with LA2, LA3, LA6 DK1, LA6 DK2 mounting possible without front plate)	W = 420 mm
--	------------

LP1/LP2-D25, D32 with or without LA4, LA8 (with LA1, LA2, LA3, LA6DK1, LA6DK2, mounting possible without front plate)	W = 420 mm
---	------------

vertical mounting on recessed slotted plate, behind plain front plate

LP1/LP2-D09, D12 with LA1, LA4, LA8 (with LA2, LA3, LA6 DK1, LA6 DK2, mounting possible without front plate)	W = 420 mm
--	------------

LP1/LP2-D18 with LA1, LA4, LA8 (with LA2, LA3, LA6 DK1, LA6 DK2 mounting possible without front plate)	W = 420 mm
--	------------

LP1/LP2-D25, D32 with or without LA4, LA8 (with LA1, LA2, LA3, LA6DK1, LA6DK2, mounting possible without front plate)	W = 420 mm
---	------------

vertical mounting on recessed Multifix rail, behind plain front plate

LC1/LC2-D09, D12 with or without LA4, LA8	W = 432 mm
---	------------

LC1/LC2-D09, D12 with or without LA1, LA4, LA8, LA6 DK1, LA6 DK2	W = 432 mm
--	------------

LC1/LC2- D18 D25 with or without LA1, LA4, LA8	W = 432 mm
---	------------

LC1/LC2- D32 with or without LA4, LA8	W = 432 mm
--	------------

vertical mounting on recessed Multifix rail, behind plain front plate

LC1/LC2-D09, D12, D18, D25, D32 with or without LA1, LA2, LA3, LA4, LA8, LA6 DK1, LA6 DK2.	W = 420 mm
--	------------

LC1/LC2-D40 with or without LA1, LA4, LA8, LA6-DK1, LA6/DK2 (with LA2, LA3, mounting possible without front plate)	W = 420 mm
---	------------

vertical mounting on recessed slotted plate, behind plain front plate

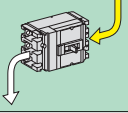
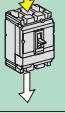
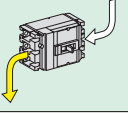
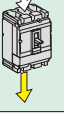
LC1/LC2-D09, D12, D18, D25, D32 with or without LA1, LA2, LA3, LA4, LA8, LA6 DK1, LA6 DK2.	W = 420 mm
--	------------

LC1/LC2-D40 with or without LA1, LA4, LA8, LA6-DK1, LA6/DK2 (with LA2, LA3, mounting possible without front plate)	W = 420 mm
---	------------

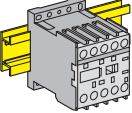
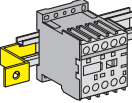
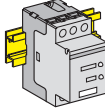
Note:

If an LR2 or LR3 relay is used in conjunction with the contactor, it takes up an extra module requiring the addition of a plain bottom front plate **07801**.

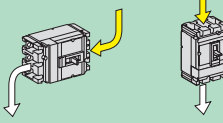
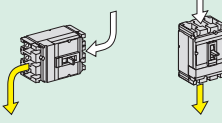
LR2 or LR3 relays may not be mounted behind a front plate on LP1/LP2 D18 and D32 contactors.

Installation						Upstream connection				Downstream connect./distribution			
	vertical modules required H=50 mm	mounting plate	plain front plate	add. top front plate	add. bottom front plate	description		add. mod.	add. front plate	description		add. mod.	add. front plate
													
	3	07551	07803			point-to-point		0		point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm		0 0 1	07801
	4	07509	07804			point-to-point		0		point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm		0 0 1	07801
	4	07509	07804										
	4	07509	07804										
	4	07570	07804			point-to-point		0		point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm		0 0 1	07801
	4	07570	07804										
	4	07570	07804										
	3	07502	07803			point-to-point		0		point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm		0 0 1	07801
	3	07551	07803										
	4	07551	07804										
	4	07551	07804										
	4	07509	07804			point-to-point		0		point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm		0 0 1	07801
	4	07509	07804										
	4	07570	07804			point-to-point		0		point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm		0 0 1	07801
	4	07570	07804										



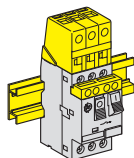
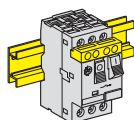
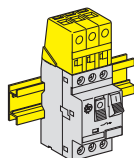
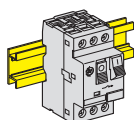
Description of device	
	mounting plate capacity
Contactor serie K 	vertical mounting on Multifix rail, behind plain front plate LC1-K, LC7-K, LP1-K with or without LA1-KN, LA2-KT, LA4 W = 432 mm
	LC2-K, LC8-K, LP2-K with or without LA1-KN, LA2-KT, LA4 W = 432 mm
	vertical mounting on recessed Multifix rail, behind plain front plate LC1-K, LC7-K, LP1-K with or without LA1-KN, LA2-KT, LA4 W = 420 mm
	LC2-K, LC8-K, LP2-K with or without LA1-KN, LA2-KT, LA4 W = 420 mm
	vertical mounting on recessed slotted plate, behind plain front plate LC1-K, LC7-K, LP1-K with or without LA1-KN, LA2-KT, LA4 W = 420 mm
	LC2-K, LC8-K, LP2-K with or without LA1-KN, LA2-KT, LA4 W = 420 mm
Starters 	vertical mounting on Multifix rail behind transparent front plate LH4-N1 (width 45 mm) LH4-N2 until 22 A (width 90 mm) W = 432 mm
	vertical mounting on recessed slotted plate behind transparent front plate LH4-N1 (width 45 mm) LH4-N2 until 22 A (width 90 mm) W = 420 mm
	LH4-N2 until 32 A (width 180 mm) W = 420 mm

Note:
If an LR2 or LR3 relay is used in conjunction with the contactor, it takes up an extra module requiring the addition of a plain bottom front plate **07801**.
LR2 or LR3 relays may not be mounted behind a front plate on LP1/LP2 D18 and D32 contactors.

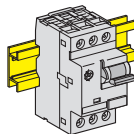
Installation						Upstream connection			Downstream connect./distribution				
	vertical modules required H=50 mm	mounting plate 	plain front plate 	add. top front plate 	add. bottom front plate 	description 		add. mod.	add. front plate	description 		add. mod.	add. front plate
	2	07502 or 07551	07802			point-to-point		0		point-to-point with straps H = 30 mm (only mounted on rail 07502) with horizontal trunking		0 0 1	07801
	2	07502 or 07551	07802										
	4	07509	07804			point-to-point		0		point-to-point with horizontal trunking		0 0	
	4	07509	07804										
	4	07570	07804			point-to-point		0		point-to-point with horizontal trunking		0 0	
	4	07570	07804										
	4	07551	07890			point-to-point		0		point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm		0 0 1	07801
	4	07570	07890										
	6	07570	07892										



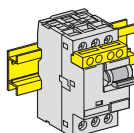
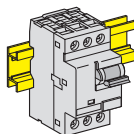
GV2 M (1)



GV2 RT



GV2 LE (2)



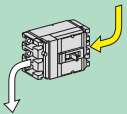
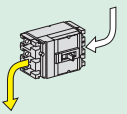
Description of device

	mounting plate capacity
vertical mounting	
GV2-M	W = 432 mm
GV2-M	W = 432 mm
GV2-M + GV1-L3	W = 432 mm
GV2-M + GV2-AE	W = 432 mm
GV2-M + GV2-AE + GV1-L3	W = 432 mm
vertical mounting	
GV2-RT	W = 432 mm
GV2-RT	W = 432 mm
vertical mounting	
GV2-LE	W = 432 mm
GV2-LE	W = 432 mm
GV2-LE + GV2-AE	W = 432 mm
GV2-LE + GV2-AE	W = 432 mm

Note:

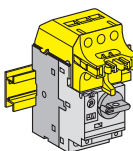
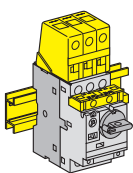
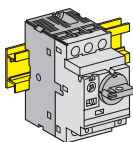
(1) Mounting possible with lateral auxiliaries GV2-AD, AM, AN, AU, AS, AX.

(2) Mounting possible with lateral auxiliaries GV2-AD, AM, AN, AU, AS.

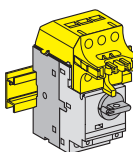
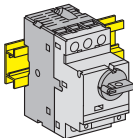
Installation					Upstream connection			Downstream connect./distribution		
	vertical modules required H=50 mm	mounting plate 	cut-out front plate 	plain front plate 	description 	add. mod.	add. front plate	description 	add. mod.	add. front plate
	3	07501	07813		point-to-point type comb busbars GV2 G... (without connectors GV2-G09 and GV2-G05)	0 0		point-to-point with cable straps H = 30 mm 07300	0 0	
	4	07501	07814		point-to-point type comb busbars GV2 G... (without connectors GV2-G09 and GV2-G05) Multiclip	0 0 0		point-to-point with cable straps H = 30 mm 07300 H = 60 mm 07301 with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 0 1	07801
	4	07501	07814		point-to-point	0				
	3	07502		07803	point-to-point type comb busbars GV2 G...	0 0				
	4	07502		07804	point-to-point	0				
	3	07501	07813		point-to-point type comb busbars GV2 G... (without connectors GV2-G09 and GV2-G05)	0 0		point-to-point with cable straps H = 30 mm 07300	0 0	
	4	07501	07814		point-to-point type comb busbars GV2 G... (without connectors GV2-G09 and GV2-G05) Multiclip	0 0 0		point-to-point with cable straps H = 30 mm 07300 H = 60 mm 07301 with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 0 1	07801
	3	07501	07813		point-to-point type comb busbars GV2 G... (without connectors GV2-G09 and GV2-G05)	0 0		point-to-point with cable straps H = 30 mm 07300	0	
	4	07501	07814		point-to-point type comb busbars GV2 G... (without connectors GV2-G09 and GV2-G05) Multiclip	0 0 0		point-to-point with cable straps H = 30 mm 07300 H = 60 mm 07301 with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 0 1	07801
	3	07502		07803	point-to-point type comb busbars GV2 G...	0 0				
	4	07502		07804	point-to-point type comb busbars GV2 G...	0 0				



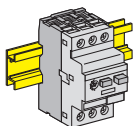
GV2 P (2)



GV2 L (2)



GV3

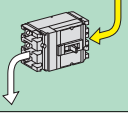
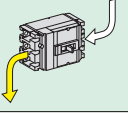


Description of device

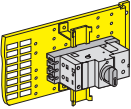
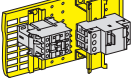
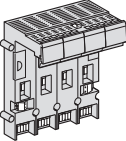
Description of device		mounting plate capacity
vertical mounting GV2-P, with or without GV2 AE GV2-P, with or without GV2 AE GV2-P, with or without GV2 AE + GV1 L3 GV2-P + GV2-AK00		W = 432 mm
		W = 432 mm
		W = 432 mm
		W = 432 mm
vertical mounting GV2-L, with or without GV2 AE GV2-L, with or without GV2 AE GV2-L + GV2-AK00		W = 432 mm
		W = 432 mm
		W = 432 mm
vertical mounting through modular front plate GV3-M ≤ 40 A		48 mod.

Note:

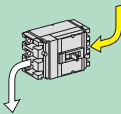
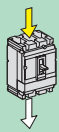
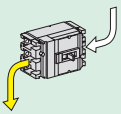
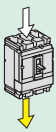
(2) Mounting possible with lateral auxiliaries GV2-AD, AM, AN, AU, AS.

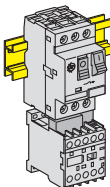
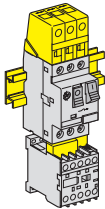
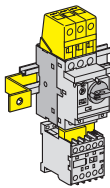
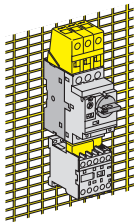
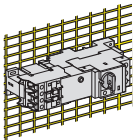
Installation					Upstream connection				Downstream connect./distribution			
	vertical modules required H=50 mm	mounting plate 	cut-out front plate 	plain front plate 	description 	add. mod.	add. front plate		description 	add. mod.	add. front plate	
3	07502	07813			point-to-point	0			point-to-point with cable straps H = 30 mm 07300 H = 60 mm 07301	0		
4	07502	07814			point-to-point type comb busbars GV2 G...	0			with horizontal trunking H ≤ 30 mm H > 30 mm	0 1		07801
4	07502	07814			point-to-point	0						
4	07551			07804	point-to-point	0			point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 1		07801
3	07502	07813			point-to-point	0			point-to-point with cable straps H = 30 mm 07300 H = 60 mm 07301	0 0		
4	07502	07814			point-to-point type comb busbars GV2 G...	0 0			with horizontal trunking H ≤ 30 mm H > 30 mm	0 1		07801
4	07551			07804	point-to-point	0			point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 1		07801
5	07502	07815			point-to-point	0			point-to-point with cable straps H = 30 mm 07300 H = 60 mm 07301	0 0 0		
									with horizontal trunking			



Description of device		
		mounting plate capacity
Integral 18, 32 	horizontal mounting through cut-out front plate Integral 18 LD1-LB, LD5-LB Integral 32 LD1-LC, LD4-LC, LD5-LC	174 mm
Circuit breaker/contactor combination 	horizontal mounting, circuit breaker behind cut-out front plate circuit breaker: – C60, C60 LMA – GV2 L, LE, M, P, RT, without GV2-AK00, without GV2 AE contactors: – serie K – serie D: D09, 12, 18, 25, 32 with or without LA4, LA8 without LA1, LA2, LA3, LA6 DK1, LA6 DK2	174 mm
Tego Power 	Tego Power 2 outgoing circuits Tego Power 4/8 outgoing circuits	2 1

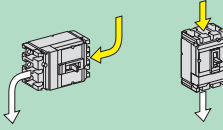
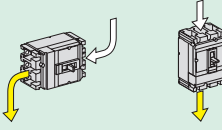
Note:
The LA1 contact can only be mounted on the LC1-D09-D12.
The LA2, LA3 and LA6 contacts can only be mounted without a front plate.

Installation						Upstream connection			Downstream connect./distribution				
	vertical modules required H=50 mm	mounting plate 	plain front plate 	add. top front plate 	add. bottom front plate 	description 		add. mod.	add. front plate	description 		add. mod.	add. front plate
	4	07512	07871			point-to-point		0		point-to-point		0	
	4	07512	07871			point-to-point		0		point-to-point		0	
	8	07576	07892	07801	07801								
	8	07576	07892	07801	07801	point-to-point		0		point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm		0 0 1	07801

Description of device		mounting plate capacity
GV2-M...K (1) 	vertical mounting on Multifix rail behind plain front plate GV2-M...K with or without GV2-AE, AD, AM, AN with or without LA1, LA2	W = 432 mm
	 GV2-M...K with or without GV2-AE, AD, AM, AN with or without LA1, LA2 + GV1-L3	W = 432 mm
GV2-P...D 	vertical mounting on recessed Multifix rail behind plain front plate GV2-P...D with or without GV2-AE, AD, AM, AN with or without GV1-L3, GV2 AK00, LA1, LA2, LA3, LA8	W = 420 mm
	 vertical mounting on recessed slotted plate behind plain front plate GV2-P...D with or without GV2-AE, AD, AM, AN with or without GV1-L3, GV2 AK00, LA1, LA2, LA3, LA8	W = 420 mm
 horizontal mounting on recessed slotted plate behind plain front plate GV2-P...D with or without GV2-AE, GV2-AD, AM, AN with or without GV1-L3, GV2 AK00, LA1, LA2, LA3, LA8	H = 180 mm	

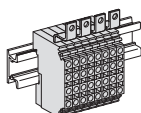
Note:

(1) Mounting possible with lateral auxiliaries GV2- AD, AM, AN, AU, AS, AX.

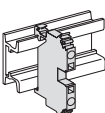
Installation						Upstream connection			Downstream connect./distribution		
vertical modules required H=50 mm	mounting plate	plain front plate	add. top front plate	add. bottom front plate	description	add. mod.	add. front plate	description	add. mod.	add. front plate	
											
5	07502	07805			point-to-point type comb busbars GV2 G...	0 0		point-to-point with cable straps H = 30 mm 07300 H = 60 mm 07301 with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 0 0 1	07801	
6	07502	07805	07801								
6	07509	07806			point-to-point type comb busbars GV2 G...	0 0		point-to-point with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 1	07801	
7	07571	07806	07801		point-to-point type comb busbars GV2 G...	0 0		point-to-point with horizontal trunking H ≤ '30 mm H > 30 mm	0 0 1	07801	
4	07570	07804			point-to-point	0		point-to-point	0		



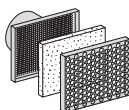
distribution block



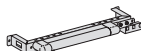
distribution blocks



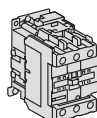
air conditioning



door lighting system



other devices



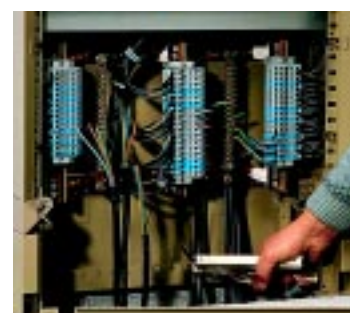
Description of device		number per row
distribution block	Polybloc 4P 160 A, 6 circuits, 07100 (16 mod)	430 mm useful
	Polybloc 4P 250 A, 9 circuits, 07101 (24 mod)	430 mm useful
	Polybloc 3P 250 A, 9 circuits, 07103 (18 mod)	430 mm useful
	Polybloc 4P 250 A, 12 circuits, 07102 (32 mod)	430 mm useful
	Distribloc 125 A, 13 circuits, 07105 (12 mod)	430 mm useful
	Distribloc 160 A, 13 circuits, 07106 (12 mod)	430 mm useful
	multi-stage dist.-block 125 A 14 circ. 13512 (10 mod)	430 mm useful
	multi-stage dist.-block 125 A 17 circ. 13514 (14 mod)	430 mm useful
distribution blocks		
	4P multi-stage dist.-block 160 A 5 circ. 07055	1
	4P multi-stage dist.-block 160 A 13 circ. 07057	1
	4P multi-stage dist.-block 250 A 5 circ. 07056	1
	4P multi-stage dist.-block 250 A 13 circ. 07058	1
	4P multi-stage dist.-block 400 A 13 circ. 07059	1
	installation on Multifix rail	430 mm useful (1)
	installation on mounting plate on vertical rails	1000 mm useful (1)
air conditioning	IP 20 ventilation front plate	
	front plate 07988 and 07989 or filter grill support 07985	
door lighting system	fluorescent lighting + door contact	1
other devices	on flat slotted plates	
	useful dimensions (HxWxD) 200 x 440 x 140 mm	
	useful dimensions (HxWxD) 550 x 440 x 140 mm	
	useful dimensions (HxWxD) 750 x 440 x 140 mm	
	useful dimensions (HxWxD) 950 x 440 x 140 mm	
	useful dimensions (HxWxD) 1150 x 440 x 140 mm	
	on recessed slotted plates	
	useful dimensions (HxWxD) 200 x 420 x 160 mm	
	useful dimensions (HxWxD) 350 x 420 x 160 mm	
	useful dimensions (HxL) 550 x 420 mm	

(1) Space occupied by distribution blocks:

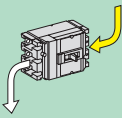
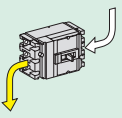
cross-section (mm ²)	width in mm	number of vertical modules occupied (for installation on rail 07503)
4	6	3
6	8	3
10	10	5
16	12	6



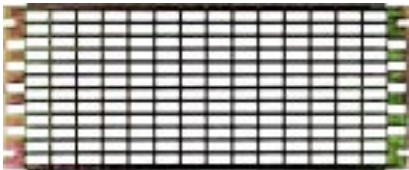
Multistage distribution block in horizontal position



Cables are fitted directly at the bottom of the switchboard

Installation						Upstream connection				Downstream connect./distribution			
	vertical modules verticaux H=50 mm	mounting plate	cut-out front plate	add. top front plate	add. bottom front plate	description		add. mod.	add. front plate	description		add. mod.	add. front plate
													
	3	07502		07803		direct to device		0		direct to device		0	
	3	07502		07803									
	3	07502		07803									
	3	07502		07803									
	4	07501		07804									
	4	07501		07804									
	6	07326		07806									
	5			07805									
	6	07326		07806									
	5			07805									
	6	07326		07806									
	5			07805									
	5			07805									
	3 to 6 (1)	07502		07803 to 07806		point-to-point wiring with cable straps H = 30 mm 07300 H = 60 mm 07301 with horizontal trunking H ≤ 30 mm H > 30 mm		0 0 0 0 1	07801	point-to-point wiring with cable straps H = 30 mm 07300 H = 60 mm 07301 with horizontal trunking H ≤ 30 mm H > 30 mm		0 0 0 0 1	07801
	5	07558		07805		point-to-point wiring		0		point-to-point wiring		0	
	1		07980			direct to device		0		direct to device		0	
	5		07981										
	5		07984										
	1					direct to device		0		direct to device		0	
	4	07510		07804		direct to device		0		direct to device		0	
	11			07773									
	15			07774									
	19			07775									
	23			07776									
	4	07570		07804									
	7	07571		07806 + 07801									
	11	07572		07773									

Slotted plates



07510

At rear of enclosure or cubicle

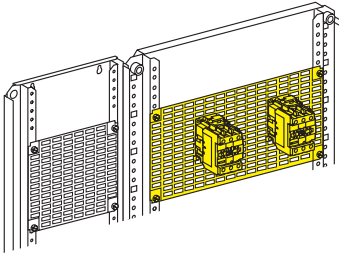
Slotted plates may be installed directly at the rear of Prisma G/GX/GK enclosures, or on the functional chassis of Prisma GE enclosures and Prisma GR cubicles.

Slotted plate

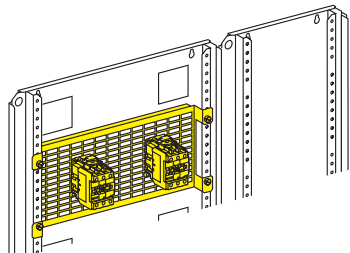
description	cat. No.
1 slotted plate H = 200, W = 470 for enclosure or cubicle	07510

Useful dimensions:

- behind front plate = 140 mm.
- useful width: W = 440 mm.



Slotted plate



Recessed slotted plate

Recessed slotted plates

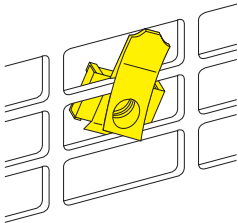
description		cat. No.
recessed slotted plate	4 modules	07570
	7 modules	07571
	11 modules	07572

They provide best possible use of available depth.

Useful dimensions:

- behind front plate = 160 mm.
- useful width: W = 420 mm.

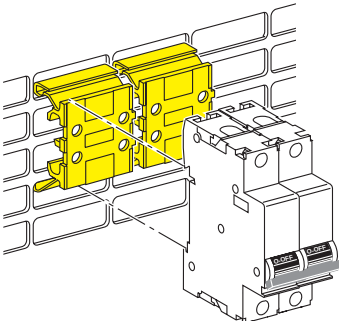
Clip-on nuts



Used for mounting various devices (contactors, transformers, etc.) on slotted plates.

description		cat. No.
20 clip-on nuts	M 4	05114
	M 5	05115
	M 6	05116

Pratic



Pratic adapters

Clipped on slotted plates, Multifix rails, symmetrical and asymmetrical rails.

Accommodates terminal strips, terminal blocks, terminals, modular devices, etc. Also accommodates Prisma cable straps and may be used as a raiser D = 10, W = 27 mm.

description	cat. No.
5 pratic adapters	06619

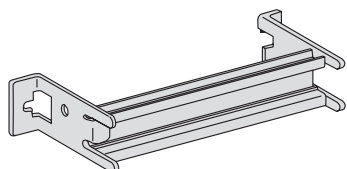
Sliding nut



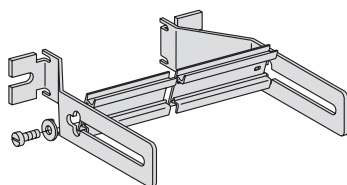
For fixing mounting plates or special devices to Multifix rails

description			cat. No.
20 sliding nuts for Multifix rail	Ø A	Ø B	
	M 3	M 5	09923
	M 4	M 6	09924
	M 5	M 3	09925
	M 6	M 4	09926

Multifix rail



07501



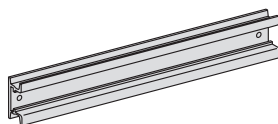
07502

Universal fixing rail as per standard EN-50-022 for:

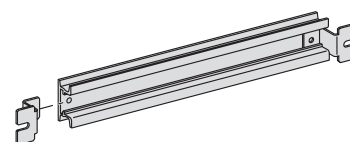
- clip-on mounting of modular units
- non-modular units, fitting by double-tapped nut sliding inside the rail.

Suitable for Prisma system cable straps and Multiclip, Polybloc and Distribloc distribution blocks.

description		cat. No.
Multifix rail supplied with 2 fixing brackets	W = 430 mm	07501
Multifix rail	W = 430 mm	07502
■ supplied with 2 fixing brackets for depth adjustment, graduated to indicate directly the available space behind the front plate ■ may be set to a 30° angle in bottom position		
Multifix rail with holes at each end for direct mounting on the rear of the enclosure or cubicle	W = 470 mm	07551
2 Multifix rails	W = 1750 mm	09850
recessed Multifix rail fitted with 2 fixing brackets	W = 420 mm	07509
■ useful dimension behind front plate: 160 mm		



07551



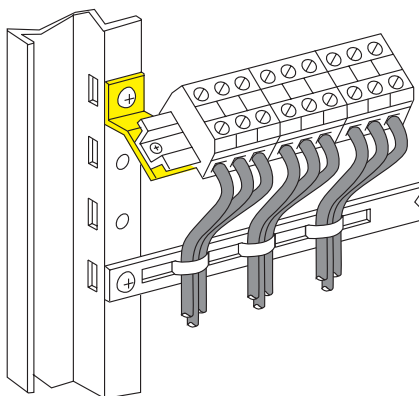
07509

45 ° support

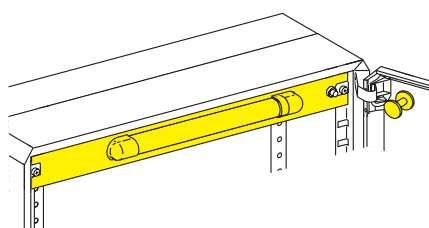


Supports used to advance a Multifix or symmetrical rail and set it at a 45° angle.

description	cat. No.
2, 45° supports	07552



Switchboard lighting system



The system lights the front panel of Prisma G/GE enclosures and Prisma GX/GR cubicles.

It occupies one vertical module, i.e. 50 mm of the height of the switchboard.

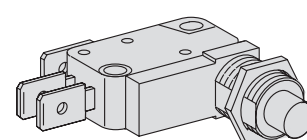
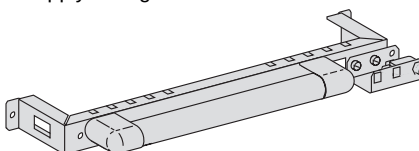
description	cat. No.
fluorescent lighting + door contact	07991

Composition

- 1 neon light
- 1 door contact
- 1 fixing plate
- 1 one module front plate (50 mm).

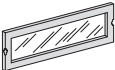
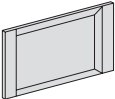
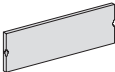
Electrical characteristics

- power: 15 W
- supply voltage: 230 V.





reserve



Description of device

number
per row

behind flat plain front plate

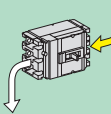
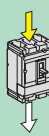
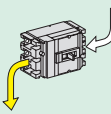
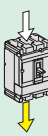
- H = 50 mm
- H = 100 mm
- H = 150 mm
- H = 200 mm
- H = 250 mm
- H = 300 mm
- H = 550 mm
- H = 750 mm
- H = 950 mm
- H = 1150 mm

behind recessed plain front plate

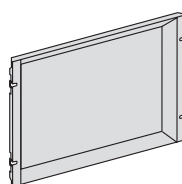
- H = 300 mm
- H = 550 mm

behind transparent front plate

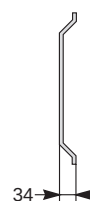
- H = 200 mm
- H = 300 mm

Installation						Upstream connection				Downstream connect./distribution			
	vertical modules required H=50 mm	mounting plate	cut-out front plate	add. top front plate	add. bottom front plate	description		add. mod.	add. front plate	description		add. mod.	add. front plate
													
	1			07801									
	2			07802									
	3			07803									
	4			07804									
	5			07805									
	6			07806									
	11			07773									
	15			07774									
	19			07775									
	23			07776									
	6			07943									
	11			07946									
	4			07890									
	6			07892									

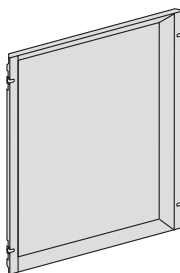
Recessed front plate H = 300



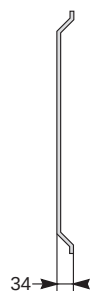
07943



Recessed front plate H = 550



07946





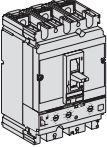
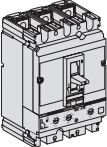
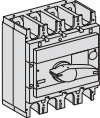
Prisma G



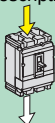
Prisma G



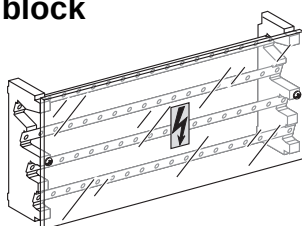
Prisma GK

Description of device		
		number per row
Compact and Vigicompact circuit breaker 	100/250 A vertical circuit breaker, fixed, front connected, with or without Vigicompact	
	toggle control rotary handle	1
Compact and Vigicompact circuit breaker 	400 A vertical circuit breaker, fixed, front connected, with or without Vigicompact	
	toggle control rotary handle	1
INV/INS switch-disconnector 	switch-disconnector 100/250 A, vertical mounting, fixed front connections, direct or extended front handle	
	INS 250 INV 250	1
INV/INS switch-disconnector 	switch-disconnector 400 A, vertical mounting, fixed front connections, direct or extended front handle	
	INS 320/400 INV 320/400	1

Note:
(1) For Vigicompact, add an extra module.
(2) with terminal shields add one extra module.

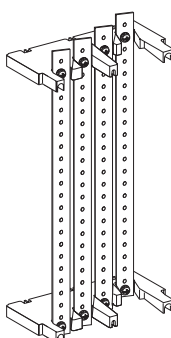
Installation					Upstream connection			Downstream connect./distribution		
vertical modules required H=50 mm	mounting plate	cut-out front plate	add. top front plate	add. bottom front plate	description 	add. mod.	add. front plate	description 	add. mod.	add. front plate
11	07540 (mounting plate + front plate)				direct to device via spreaders spreaders 3P 31563 spreaders 4P 31564	0 0 0		by Polybloc distribution block (1) Polybloc 160 A 6 circ. 4P 07100 by 4P multi-stage distribution block 160 A, 15 circuits 07057 250 A, 15 circuits 07058 by multi-hole terminals terminals 6x35 ² (set of 3) 29248 terminals 6x35 ² (set of 4) 29249 by busbars busbars connection 07064	11 11 0 0 0	07562
11	07541 (mounting plate + front plate)				direct to device via spreaders ■ distance between connection centres 52.5 mm spreaders 3P, 32490 spreaders 4P, 32491 ■ distance between connection centres 70 mm spreaders 3P, 32492 spreaders 4P, 32493	0 0 0 0 0		by 4P multi-stage distribution block 400 A, 15 circuits 07059 by busbars busbars connection 07065	11 0	
11	07547 (mounting plate + front plate)				direct to device with one-piece spreaders (2) on the device	0 0	07562 + 31064	by Polybloc distribution block Polybloc 160A 6 circuits 4P 07100 by multi-hole terminals terminals 6x35 ² (set of 3) 29248 terminals 6x35 ² (set of 4) 29249 by busbars prefab. conn. for duct 250A 07064 by 4P multi-stage distribution block 160A 07057 15 circuits 250A 07058 15 circuits with 250A prefabricated connection 07064	0 0 0 0 11 11	07562
11	07549 (mounting plate + front plate)				direct to device	0		by busbars prefab. conn. for duct 400A 07065 by 4P multi-stage distribution block 400A 07059 15 circuits with 400A prefabricated connection 07065	0 11	

4P multi-stage distribution block



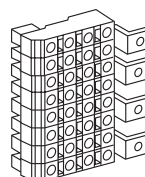
See page 94.

Busbars in the duct



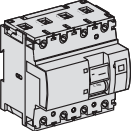
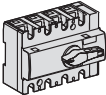
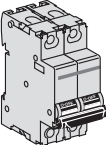
See page 82.

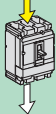
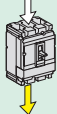
Polybloc



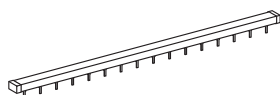
See page 92.



Description of device		
		number per row (modules = 9 mm)
NG 125 modular circuit breaker 	125 A, vertical mounting, mounting on Multifix rail	
	NG 125 Vigi NG 125	24 modules
Interpact INS 	40/160 A, vertical mounting, mounting on Multifix rail	
	INS 40/80 (10 modules)	24 modules
	INS 100/160 (14 modules)	24 modules
Multi 9 circuit breaker 	vertical mounting, mounting on Multifix rail	
	device ≤ 40 A	24 modules
	device ≤ 125 A	24 modules

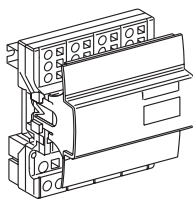
Installation						Upstream connection			Downstream connect./distribution		
	vertical modules required H=50 mm	mounting plate	cut-out front plate	add. top front plate	add. bottom front plate	description	add. mod.	add. front plate	description	add. mod.	add. front plate
											
4	07503	07560				■ to a single device direct using cables $\leq 50 \text{ mm}^2$ $> 50 \text{ mm}^2$ ■ to a row of devices point-to-point wiring by comb busbars	0 1 0 0	07561	by Distribbloc distribution block Distribloc 125A 07105 (12 of modules) by connection trip distribution block 125A 14 circuits 13512 (10 mod.) 17 circuits 13514 (14 mod.)	0 0 0	
3	07503	07559				direct to device in tunnel terminals	0				
4	07503	07560				to a single device direct using cables 70 mm^2 in tunnel terminals	0				
3	07503	07559				■ to a single device direct ■ to a row of devices point-to-point wiring by comb busbars	0 0 0		with cable straps H = 30 mm 07300	0	
4	07503	07560				■ to a single device direct using cables $\leq 50 \text{ mm}^2$ $> 50 \text{ mm}^2$ ■ to a row of devices point-to-point wiring by comb busbars	0 1 0 0	07561	with cable straps H = 30 mm 07300 H = 60 mm 07301 with horizontal trunking H $\leq 30 \text{ mm}$ H $> 30 \text{ mm}$	0 0 0 1	07561

Comb busbars



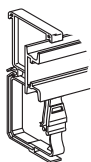
See page 100.

Distribloc



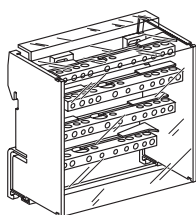
See page 86.

Cable running

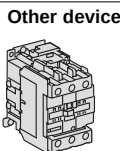
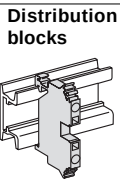
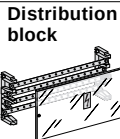


See page 106.

Distribution block 125 A



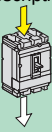
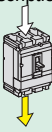
See page 99.



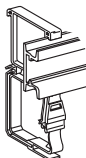
Description of device		
		number per row
Distribution block	multi-stage distribution block 4P 160 A 07057 busbar cross-section 15 x 5	1
	multi-stage distribution block 4P 250 A 07058 busbar cross-section 20 x 5	1
	multi-stage distribution block 4P 400 A 07059 busbar cross-section 32 x 5	1
Distribution blocks	installation on Multifix rail (300 mm duct)	210 mm useful
	on vertical rail using 2 supports 07548	according to the length of the rail
Other devices	on flat slotted plates H maxi under front plate: 140 mm, H maxi under wickel door: 198 mm	
	useful dimensions (HxW) 230 mm x 230 mm (300 mm duct)	
	on recessed slotted plates (300 mm duct), H maxi under front plate: 160 mm, under wicket door: 218 mm	
	useful dimensions (HxW) 200 mm x 172 mm	
	useful dimensions (HxW) 350 mm x 172 mm	
LV/LV transformer	mounting on recessed slotted plate, behind plain front plate	
	ABL-6 until 400 VA	W = 170 mm

(1) Space occupied by distribution blocks:

cross-section (mm ²)	width in mm	number of vertical modules occupied (for installation on rail 07503)
4	6	3
6	8	3
10	10	5
16	12	6

Installation						Upstream connection			Downstream connect./distribution		
	vertical modules required H=50 mm	mounting plate 	cut-out front plate 	add. top front plate 	add. bottom front plate 	description 	add. mod.	add. front plate	description 	add. mod.	add. front plate
11											
11											
11											
3 to 6 (1)	07503					point-to-point wiring with cable straps H = 30 mm 07300 H = 60 mm 07301 with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 0 0 1	07561	with cable straps H = 30 mm 07300 H = 60 mm 07301 with horizontal trunking H ≤ 30 mm H > 30 mm	0 0 0 1	07561
according to the length of the rail (1)						point-to-point wiring	0				
5	06819					direct to device	0		direct to device	0	
4	07573										
7	07574										
11	07575										
4	07573			07554		point-to-point wiring	0		point-to-point wiring	0	

Cable running



See page 106.

Slotted plates

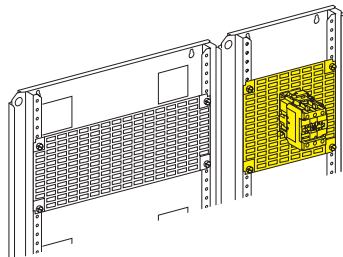


Slotted plates may be installed directly on the uprights of Prisma G and GX ducts

description	cat.No.
1 slotted plate H = 230, W = 230 for Prisma GX duct and for Prisma G duct, W = 300	06819

Useful dimensions:

- behind front plate = 140 mm
- behind wicket door = 198 mm.



Contactor mounted on slotted plate in a Prisma GX duct

Recessed slotted plates



Recessed slotted plates

These slotted plates may be fitted directly to the uprights of the 300 mm extension duct.

They enable traditional fitting of all types of unit making the best possible use of available depth.

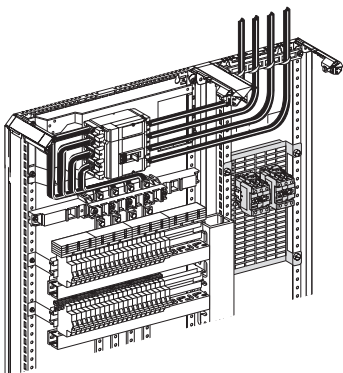
These plates may occupy all or only part of the height of the duct.

Recessed slotted plate

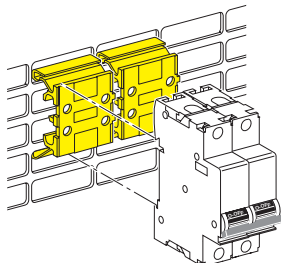
description		cat No.
slotted plate	4 modules	07573
	7 modules	07574
	11 modules	07575

Useful dimensions:

- behind front plate = 160 mm
- behind plain door = 218 mm.



Pratic



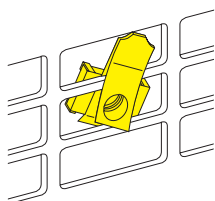
Pratic adapters

Clipped on slotted plates, Multifix rails, symmetrical and asymmetrical rails.

Accommodates terminal strips, terminal blocks, terminals, modular devices, etc. Also accommodates Prisma cable straps and may be used as a raiser D = 10, W = 27 mm.

description	cat. No.
5 pratic adapters	06619

Clip-on nuts



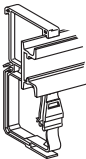
Used for mounting various devices (contactors, transformers, etc.) on slotted plates.

description		cat. No.
20 clip-on nuts	M 4	05114
	M 5	05115
	M 6	05116

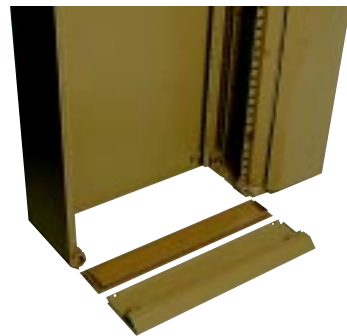


Description of device		Installation	
		vertical modules required H=50 mm	front plate
reserve	behind flat plain front plate		
	H = 50 mm	1	07561
	H = 150 mm	3	07553
	H = 200 mm	4	07554
	H = 250 mm	5	07545
	H = 300 mm	6	07546
	H = 550 mm	11	07567

Cable running



See page 106.



Gland plate



Side panels with easy cut-outs for openings between enclosure and duct.

Application

Indoor modular enclosures that can be joined together, supplied in kit form to build all types of distribution boards up to 630 A for commercial and industrial buildings.

Characteristics

■ complies with standards EN 60439.1 and IEC 439.1

■ material:

- sheet steel, anti-corrosion protection
- Polyester-epoxy coating inside and out
- colour: Prisma beige

■ degree of protection as per IEC 529:

- IP 30 enclosure (or duct) + front plate
- IP 40 enclosure (or duct) + door (or wicket door)
- IP 43 enclosure (or duct) + door (or wicket door) + gasket kit + canopy

■ degree of protection against mechanical impacts as per EN 50102:

- IK07 enclosure without door (or wicket door)
- IK08 enclosure with door (or wicket door)
- rated current of switchboard: 630 A.

Composition

■ enclosure:

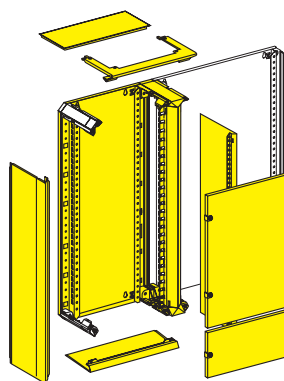
- 1 back panel including two uprights with M6 tapped holes every 25 mm for fixing mounting plates and Multifix rails
- 4 corner pillars
- 2 side panels, marked for manual cut-outs, for side-by-side positioning
- 1 top, marked for manual cut-outs, for adding another enclosure on top
- 1 bottom, with insulated gland plate, easy to cut

■ 300 mm ducts:

- 1 back panel including two uprights, drilled every 25 mm, for fixing slotted plates, cable tie bars, terminal mounting plates
- 2 double pillars for joining with a Prisma G enclosure
- 2 side panels, marked for manual cut-outs
- top and bottom, marked for manual cut-outs
- plastic gland plate
- front plate

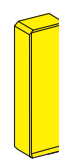
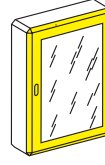
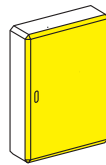
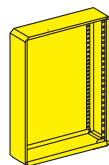
■ options:

- plain or transparent door, equipped with a key-lock handle for the enclosure
- plain duct door, equipped with a slot-type screwdriver lock for the duct
- canopy
- plinth.



300 mm duct

Enclosure and duct



No. of 50 mm modules	H x W x D	enclosure without door	plain door	transp. door	duct + front cover W = 300 mm	wicket door for duct W = 300 mm
3	200 x 550 x 200	09001	09031	09041		
7	400 x 550 x 200	09002	09032	09042	09082	09092
11	600 x 550 x 200	09003	09033	09043	09083	09093
15	800 x 550 x 200	09004	09034	09044	09084	09094
19	1000 x 550 x 200	09005	09035	09045	09085	09095
23	1200 x 550 x 200	09006	09036	09046	09086	09096

Joining enclosures



09050



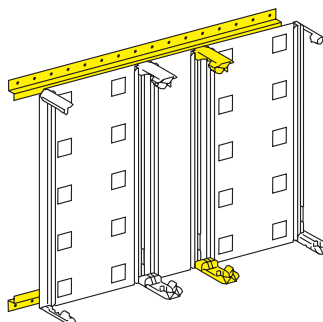
09051

Prisma G enclosures may be positioned side by side or one on top of the other. A joining kit comprising two double pillars holds the enclosure back panels together.

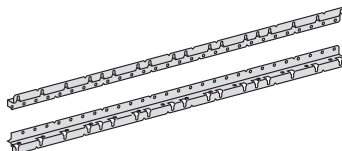
There is no need to order a joining kit to position a duct alongside an enclosure (2 double pillars supplied with the duct).

The rigidity of the assembly may be increased by using a set of cross pieces, screwed to the back panel of the enclosures. The cross pieces may also be used for wall mounting.

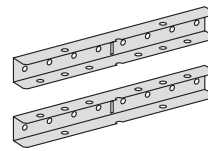
description	cat.No.
joining kit	
2 double pillars	09050
set of cross pieces (W = 1 400)	09051
■ for joining of 2 enclosures or 2 enclosures + 1 duct W = 200 or 300 mm	
■ for joining 2 enclosures one on top of the other (maximum height of assembly: 1 400 mm)	
assembly kit	09071
Additional set used in the following cases:	
■ joining of 4 enclosures with or without duct (2 side by side or one on top of the other)	
■ 2 enclosures one on top of the other if H > 1 400 mm.	



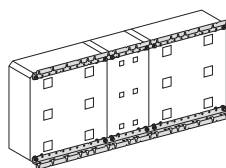
Joining of 2 enclosures and a duct:
2 double pillars are supplied with the duct



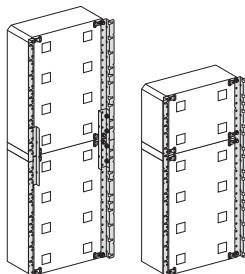
09051



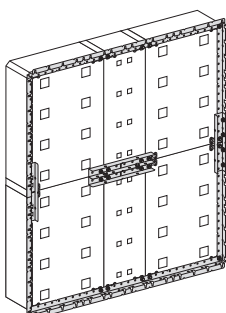
09071



joining kit	cat. No.
2 double pillars	09050 +
set of cross pieces	09051

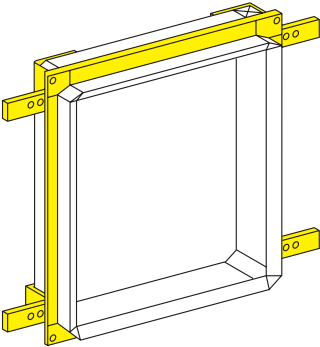


joining kit	cat. No.
H < 1400 mm	
2 double pillars	09050 +
set of cross pieces	09051
H > 1400 mm	
2 double pillars	09050 +
2 x set of cross pieces	2 x 09051 +
assembly kit	09071



joining kit	cat. No.
H < 1400 mm	
3 x 2 double pillars	3 x 09050 +
2 x set of cross pieces	2 x 09051 +
assembly kit	09071
H > 1400 mm	
3 x 2 double pillars	3 x 09050 +
3 x set of cross pieces	3 x 09051 +
2 x 2 assembly kit	2 x 09071

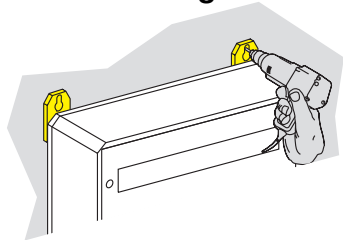
Flush-mount kit



Set of four supports for flush mounting (variable depth):
■ for a Prisma G enclosure
■ for joining a Prisma G enclosure with its duct W = 200 mm.
A 42 mm wide metal band is included to cover the gap between the enclosure and the hole.
Hole dimensions:
H: height of enclosure + 60 mm
W: width of assembly to be mounted + 60 mm
D: as required.

description	cat. No.
flush-mount kit	09061

Wall mounting



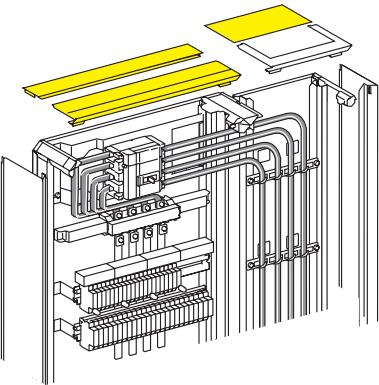
Wall fixing

description	cat. No.
4 adjustable wall fixing lugs	09052

- for wall mounting of Prisma G enclosures
- prevents tipping of Prisma GX cubicles fixed to the floor.

Gland plate

See page 75.



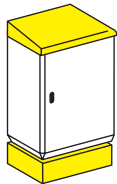
Gasket IP43

To obtain a degree of protection IP43, use a canopy and a IP43 gasket (W = 3380 m).

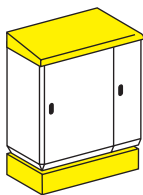
IP43 gasket (W = 3380 m)

description	cat. No.
for Prisma G enclosure or duct	09057
for Prisma GX cabinet or duct	2 x 09057

Canopy and plinth



Single enclosure



Enclosure + duct

Canopy

- offers protection from falling water
- implements IP 43 protection (see page ESB100E_5_1290).

description	cat. No.
for enclosure only	09065
for enclosure + duct	09067

Plinth (H = 100 mm)

It is advisable to fix the enclosure to the wall or against a vertical surface.

description	cat. No.
for enclosure only	09062
for enclosure + duct	09064

Prisma G 400 A for Canalis KV busbar trunking



Application

These enclosures are specially designed for use as tap-offs, with multiple outgoing circuits, for Canalis KV busbar trunking.

They are particularly suitable for secondary switchboards serving separate floors in business premises.

Thanks to their special back panel, they connect directly to Telemecanique prefabricated Canalis KV busbar trunking via a tap-off unit. They may be used alone or in conjunction with other standard Prisma G enclosures.

Characteristics

The enclosure complies with standards IEC 439.1 and IEC 439.2 when used in conjunction with Canalis KV busbar trunking.

The mechanical and electrical characteristics are identical to those of standard Prisma G enclosures.

The earthing connection is made directly via the tap-off unit.

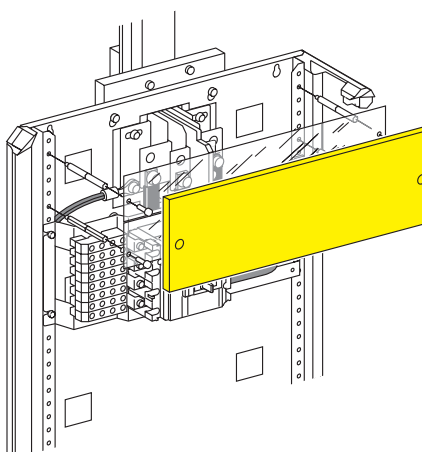
To obtain IP40, install two filter grill at the rear of the enclosure.

The enclosure may not be fitted with a canopy (IP40 maximum protection). They may be fitted with standard plain or transparent doors.

Composition

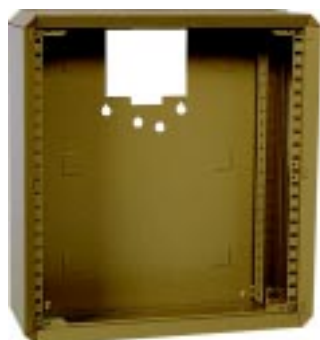
There are two tap-off enclosures: H = 600 and 800 mm. Their composition is identical to standard enclosures, with in addition two lugs for wall fixing. The back panel is different. It comprises cut-outs to enable the tap-off unit to enter the enclosure and allow direct connection to Canalis KV busbar trunking.

The connection occupies a space 150 mm high, i.e. three 50 mm vertical modules. Access to the connection terminals may be protected by insulating barriers which should be ordered separately. They implement IP XXB protection behind the front plate.



A plain 3-module front plate **07803** installed in front of the tap-off unit.

Enclosure



Enclosure composition

- 1 back panel with an aperture for direct fixing over the Canalis KV tap-off unit
- 4 single pillars
- 2 side panels
- 2 top and bottom panels, one of which is fitted with an insulated gland plate
- 2 special wall fixing lugs.

Choice of enclosure

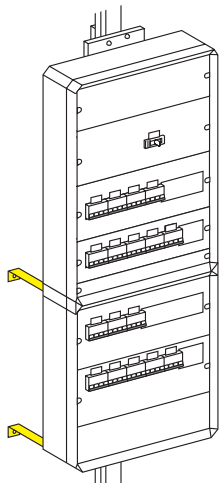
number of available modules (1)	dimensions H	W	D	cat. No.
8 (11-3)	600	550	200	09009
12 (15-3)	800	550	200	09010

(1) number of vertical modules (H = 50 mm) available in the enclosure for installing devices.

Accessories

description	cat. No.
IP XXB barrier for tap-off unit	2 x 07330
set of 2 filter grill IP40	07986

Enclosure (cont.)



Joining enclosures one on top of the other

Two enclosures, of different heights, may be joined one on top of the other. It is not possible to use assembly cross-pieces. Each joined enclosure is fixed to the wall using a set of two special wall fixing brackets that should be ordered separately.

description	cat. No.
set of two special fixing brackets	09080

(See page 70).



Prefabricated connections

Prefabricated connections make it possible to supply Compact NS circuit breakers from the tap-off unit.

■ supply to a circuit breaker:

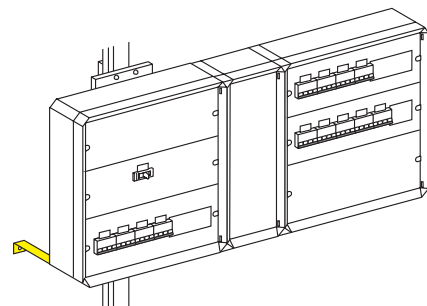
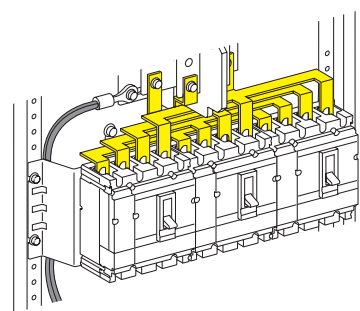
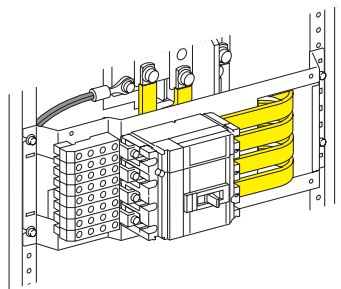
4-pole Compact NS 100/250 in horizontal position.

description	cat. No.
250 A connection between tap-off unit and Compact NS	07083

■ supply to 3 circuit breakers:

4-pole Compact NS 100/250 in vertical position.

description	cat. No.
connection between tap-off unit and 3 Compact NS units	07094



Joining enclosures side-by-side

Several enclosures and ducts, of the same height, may be joined side-by-side. It is not possible to use assembly cross-pieces. Each joined enclosure is fixed to the wall using a set of two special wall fixing lugs that should be ordered separately.

description	cat. No.
set of two special fixing lugs	09080

(See page 70).

Prisma GX



Top gland plates with easy cut-outs.



The plinth fronts may be entirely dismantled.

Application

Indoor modular cubicles that can be joined together, supplied in kit form to build all types of distribution boards up to 630 A for commercial and industrial buildings. They are particularly suitable for applications incorporating a large number of modular devices.

Characteristics

■ complies with standards EN 60439.1 and IEC 439.1

■ material:

- sheet steel, anti-corrosion protection
- Polyester-epoxy coating inside and out
- colour: Prisma beige

■ degree of protection as per IEC 529:

- IP 30 enclosure (or duct) + front plate
- IP 40 enclosure (or duct) + door (or wicket door)
- IP 43 enclosure (or duct) + door (or wicket door) + gasket kit + canopy
- degree of protection against mechanical impacts as per EN 50102:
- IK07 enclosure without door (or wicket door)
- IK08 enclosure with door (or wicket door)
- rated current of switchboard: 630 A.

Basic cubicle

- 1 back panel including two uprights with M6 tapped holes every 25 mm for fixing mounting plates and Multifix rails
- 1 built-in plinth, H = 150 mm
- 2 side panels
- 1 top gland plate, insulated, easy to cut.

Extension cubicle

- 1 back panel including two uprights with M6 tapped holes every 25 mm for fixing mounting plates and Multifix rails
- 1 built-in plinth, H = 150 mm
- 1 top gland plate, insulated, easy to cut
- 3 double corner pillars for joining with basic cubicle
- 2 cross pieces to strengthen the assembly.

Extension duct

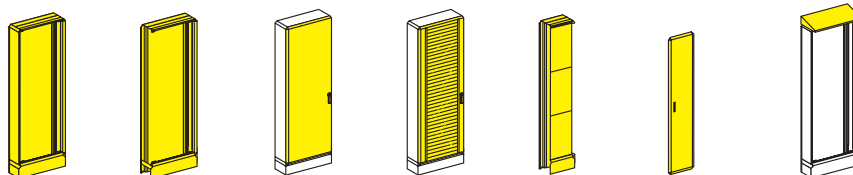
- 1 back panel including two uprights with M6 tapped holes every 25 mm for fixing slotted plates, cable tie bars, busbars, mounting plates for terminal connections, and Compact or Interpact devices
- 1 built-in plinth, H = 150 mm
- 3 double corner pillars for joining with basic or extension cubicle
- 1 top gland plate, oversized, insulated, marked for easier cut-outs
- front plates.

Options

- plain or transparent door for the cubicle and plain wicket door for the duct, equipped with a key-lock handle
- canopy.

Joining of cubicles

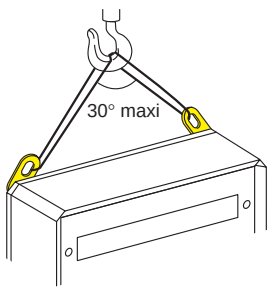
■ for assemblies comprising several cubicles joined side-by-side, use one basic cubicle and one or more extension cubicles. Two basic cubicles may not be joined.



No. of 50 mm modules	H x W x D	basic cubicle	extension cubicle	plain door	transp. door	duct W = 300 + front plates	plain wicket door	canopy for single enclosure	enclosure + duct
27	1550 x 550 x 200	09007	09017	09037	09047	09027	09077	09065	09067
33	1850 x 550 x 200	09008	09018	09038	09048	09028	09078	09065	09067

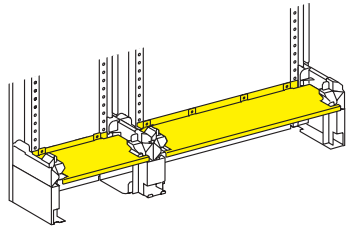
Lifting rings

description	cat. No.
2 lifting rings	09070



Bottom gland plate

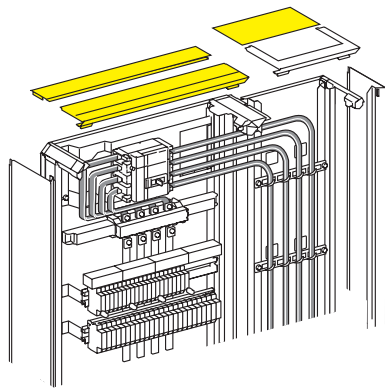
Bottom gland plate for Prisma GX cubicle and duct	
■ metal plate for installation of cable glands	
■ provides IPXXB protection.	
description	cat. No.
for basic or extension cubicle	09090
for 300 mm duct	09091
■ fitted with special cut-outs for the passage of cables.	



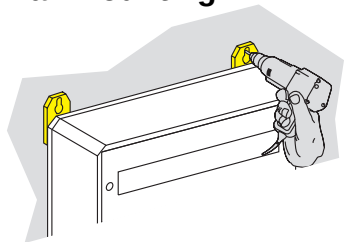
Bottom gland plate for Prisma GX cubicle and 300 mm duct.

Top gland plate

See page 75.



Wall mounting



Wall fixing	
description	cat. No.
4 adjustable wall fixing lugs	09052
■ for wall mounting of Prisma G enclosures	
■ prevents tipping of Prisma GX cubicles fixed to the floor.	

Gasket IP43

To obtain a degree of protection IP43, use a canopy and a IP43 gasket (W = 3380 m).

IP43 gasket (W = 3380 m)

description	cat. No.
for Prisma G enclosure or duct	09057
for Prisma GX cabinet or duct	2 x 09057

Prisma GK



A Prisma GK IP55 indoor switchboard consists of:

- a basic enclosure or cubicle to which extensions may be added (enclosure, cubicle, duct)
- the corresponding doors (plain, transparent, partial).

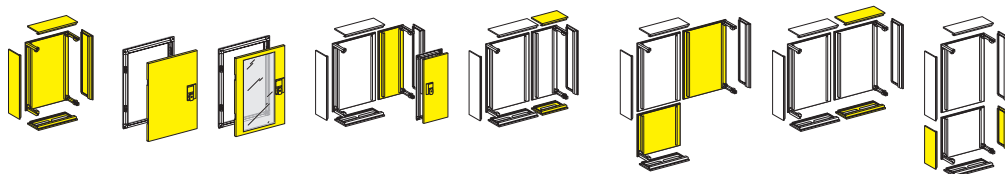
Catalogue items

- basic enclosure or cubicle W = 600 mm:
 - a back panel fitted with functional uprights
 - 4 corner pillars
 - 2 side panels
 - 2 reversible panels (top and bottom) one of which is fitted with two steel gland plates
 - 4 wall fixing lugs
- a back panel + wicket gate for extension duct W = 300:
 - a back panel W = 325 mm fitted with functional uprights
 - a frame
 - 2 front plate support uprights
 - a plain wicket gate
- 2 panels (top and bottom) for extension duct:
 - 1 plain panel
 - 1 panel with cut-outs
 - 1 steel gland plate
- a back panel for extension enclosure or cubicle W = 600 mm:
 - a back panel W = 575 mm fitted with functional uprights
- 2 panels (top and bottom) for extension enclosure or cubicle W = 600 mm:
 - 1 plain panel
 - 1 panel with cut-outs
 - 2 steel gland plates
- 2 side panels
- enclosure or cubicle door W = 600 mm:
 - a frame
 - 2 front plate support uprights
 - 1 plain or transparent door with casement bolt controlled by handle with barrel 405 (small handle for GK enclosures with 7 to 23 vertical modules, large handle for GK enclosures with 27 or 33 vertical modules). 2 or 3 point locking system, depending on the height of the enclosure.

Installation

- wall fixing, two possibilities:
 - directly using the wall fixing lugs that come with the enclosures and cubicles
 - on uprights
- fixing to a wall-mounted or free-standing structure
- fixing to the ground. In this case, always use a plinth
- fixing to a pole.

Cubicle and duct



nbr of modules	height with panels	extension back without panels)	basic enclosure or cubicle W=600 W=600	enclosure or cubicle door W=600		extension duct W=300		extension enclosure or cubicle W=600		
				plain	transp.	ext. back W=325 + wicket door	2 panels (top + bottom)	ext. back W=575	2 panels (top + bottom)	2 side panels
7	450	425	05502	05532	05542	05522	05520	05512	05510	05592
11	650	625	05503	05533	05543	05523	05520	05513	05510	05593
15	850	825	05504	05534	05544	05524	05520	05514	05510	05594
19	1050	1025	05505	05535	05545	05525	05520	05515	05510	05595
23	1250	1225	05506	05536	05546	05526	05520	05516	05510	05596
27	1450	1425	05507	05537	05547	05527	05520	05517	05510	05597
33	1750	1725	05508	05538	05548	05528	05520	05518	05510	05598



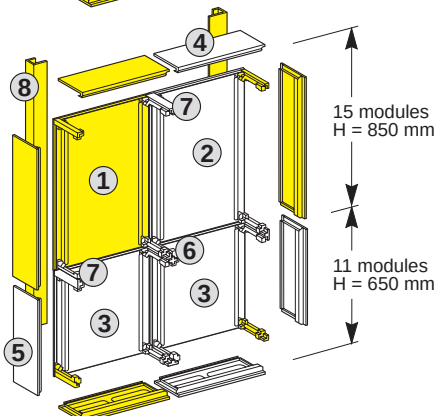
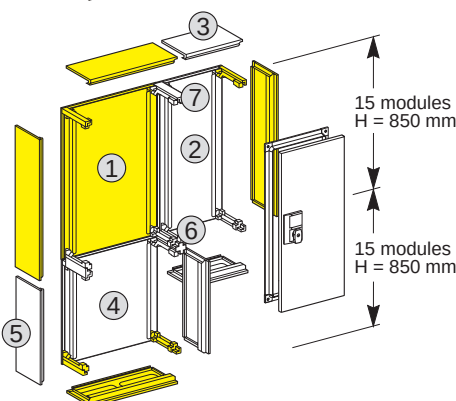
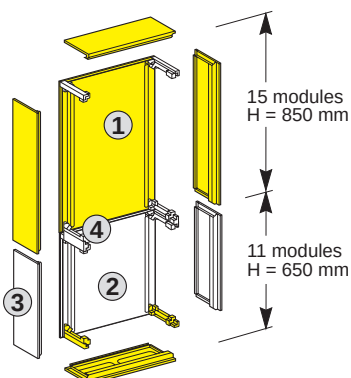
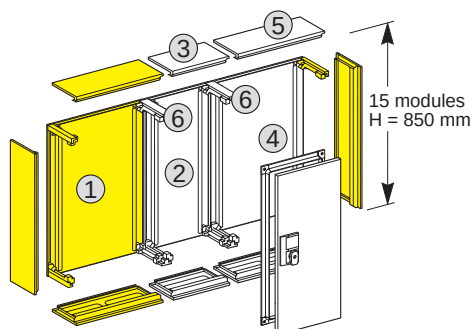
Double pillar



Quadruple pillar



Triple pillar



Enclosures and cubicles may be joined (side by side, depthwise or one on top of the other) to produce any switchboard configuration.

To produce these combinations, a basic enclosure or cubicle must be joined with extension enclosures, cubicles or ducts, using the corresponding joining kits.

If more than 2 enclosures or cubicles are joined, the assembly must be reinforced by adding wall-fixing uprights cat. No. 05551.

description	cat. No.
horizontal/vertical joining kit (comprises 2 double pillars)	05550
L-layout joining kit (comprises 1 triple pillar and 1 single pillar)	05553
square-layout joining kit (comprises 1 quadruple pillar)	05552

Joining side by side

A basic enclosure or cubicle is combined with an extension enclosure, duct or cubicle of the same height.

For each enclosure, used an horizontal/vertical joining kit (comprises 2 double pillars).

Legend:

In the example opposite, order:

- (1) 1 basic enclosure W = 600 (05504)
- (2) 1 back panel + wicket door for extension duct W = 300 (05524)
- (3) 1 set of two panels (top and bottom) W = 300 (05520)
- (4) 1 back panel for extension enclosure W = 600 (05514)
- (5) 1 set of two panels (top and bottom) W = 600 (05510)
- (6) 2 horizontal/vertical joining kits (2 x 05550).

Joining one on top of the other

A basic enclosure or cubicle is placed on top of an extension enclosure or cubicle, regardless of its height.

Legend:

In the example opposite, order:

- (1) 1 basic enclosure W = 600 (05504)
- (2) 1 back panel for extension enclosure W = 600 (05513)
- (3) 1 set of two side panels (05593)
- (4) 1 horizontal/vertical joining kit (05550).

Joining to form an "L" layout

Obtained by joining a basic enclosure or cubicle to at least two other enclosures, cubicles or ducts to form an "L".

Legend:

In the example opposite, order:

- (1) 1 basic enclosure W = 600 (05504)
- (2) 1 back panel + wicket gate for extension duct W = 300 (05524)
- (3) 1 set of two panels (top and bottom) W = 300 (05520)
- (4) 1 back panel for extension enclosure W = 600 (05513)
- (5) 1 set of two side panels (05593)
- (6) 1 L-layout joining kit (05553)
- (7) 1 horizontal/vertical joining kit (05550).

Joining to form a square layout

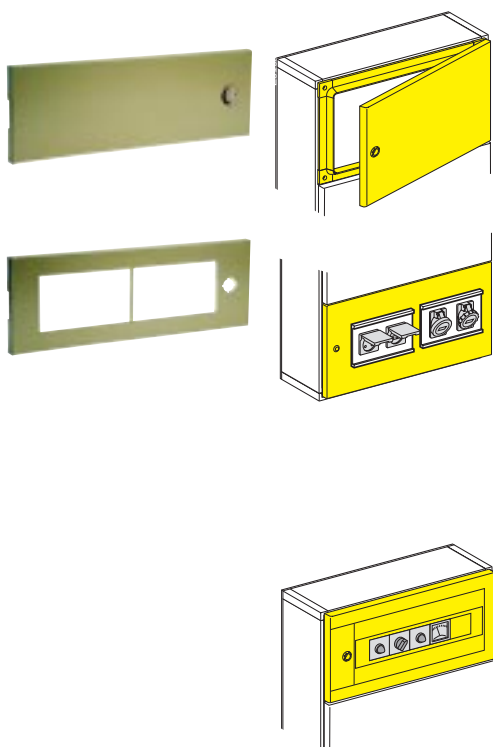
Obtained by joining a basic enclosure or cubicle to at least three other enclosures, cubicles or ducts to form a square.

Legend:

In the example opposite, order:

- (1) 1 basic enclosure W = 600 (05504)
- (2) 1 back panel for extension enclosures W = 600 (05514)
- (3) 2 back panels for extension enclosure W = 600 (2 x 05513)
- (4) 1 set of two panels (top and bottom) W = 600
- (5) 1 set of two side panels (05593)
- (6) 1 square-layout joining kit (05552)
- (7) 2 horizontal/vertical joining kits (2 x 05550)
- (8) to reinforce the overall assembly, add 3 wall-fixing uprights (3 x 05551).

Partial doors



Partial doors for functional installation of measurement, indication, monitoring and control devices or industrial power sockets that are accessible from the outside of the switchboard. They may be mounted on any enclosure W = 600 mm with at least 11 vertical modules (H = 650 mm).

They are fitted with:

■ hinges opening to 170°

■ male triangle lock 8 mm, without key.

The front panel is completed by a door (plain or transparent) one size smaller than the opening.

Plain partial door

For conventional mounting of devices on the door.

description	cat. No.
plain partial door (4 modules), H = 200 mm, for Prisma GK 11 to 27 modules	05560
plain partial door (6 modules), H = 300 mm, for Prisma GK 33 modules	05561

Partial door with cut-outs

Designed to accommodate 2 functional mounting plates for installing 22 mm dia. devices or industrial sockets.

description	cat. No.
plain partial door with cut-outs (4 modules), H = 200 mm, for Prisma GK 11 to 27 modules	05562
plain partial door with cut-outs (6 modules), H = 300 mm, for Prisma GK 33 modules	05563

Supplied with an insulated plain mounting plate used either as a blanking plate or to mount all types of devices (power sockets, emergency off buttons, measurement units, etc.).

Dimensions of the two cut-outs: 200 mm x 112 mm.

Tego Dial partial door

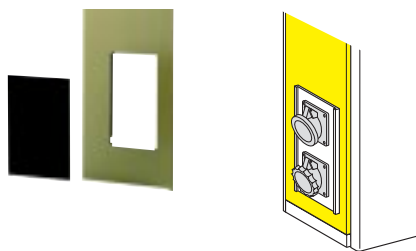
Designed to accommodate Telemecanique Tego Dial functional mounting plates H = 100 mm on which measurement, indication, monitoring and control devices can be mounted.

description	cat. No.
Tego Dial plain partial door (4 modules), H = 200 mm, for Prisma GK 11 to 27 modules	05564
Tego Dial plain partial door (6 modules), H = 300 mm, for Prisma GK 33 modules	05565

Width of opening: 375 mm (five 75 mm width modules).

Choice of Tego Dial mounting plates: see Telemecanique catalogue.

Side panel with cut-outs



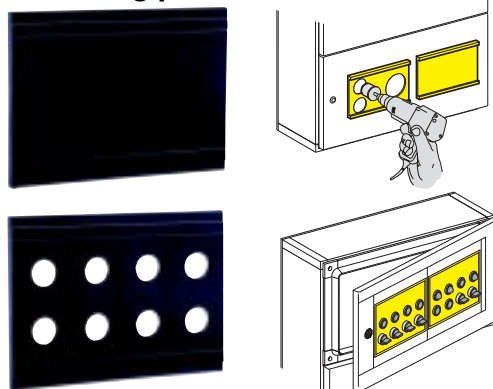
Comprises 2 cut-outs (1 cut out for 7 and 11 modules) to accommodate mounting plates for installing 22 mm dia. devices or industrial sockets.

Mounted in the place of a standard side panel.

Supplied with blanking plate (excepted 7 and 11 modules).

description	cat. No.
1 side panel with cut-outs, 7 modules	05582
1 side panel with cut-outs, 11 modules	05583
1 side panel with cut-outs, 15 modules	05584
1 side panel with cut-outs, 19 modules	05585
1 side panel with cut-outs, 23 modules	05586
1 side panel with cut-outs, 27 modules	05587
1 side panel with cut-outs, 33 modules	05588

Mounting plate



Plain mounting plate

Used as a blanking plate for partial doors or side panels with cut-outs.

description	cat. No.
plain mounting plate 210 x 150 mm	07341

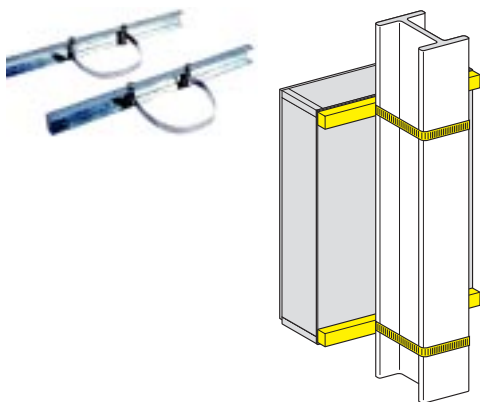
May be used as a support for all types of device (emergency off buttons, measurement units, etc.).

Mounting plate for 22 mm dia. devices

For installing eight 22 mm dia. devices (indicator lights, switches, push buttons, etc.).

description	cat. No.
mounting plate with 8 holes for 22 mm dia. devices	07342

Pole-mounting fixing support



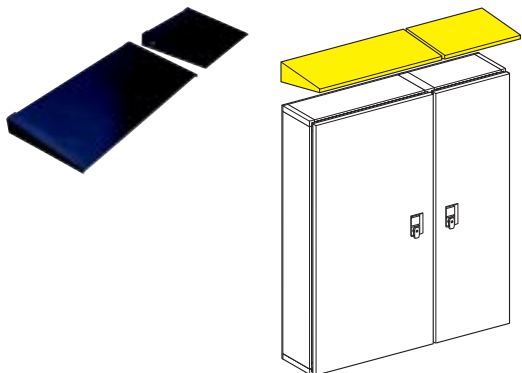
For fixing an enclosure or enclosure + duct assembly to a pole, IPN type or concrete (round or rectangular cross-section).
Maximum pole circumference: 580 mm.

description	cat. No.
Pole-mounting support for enclosure	02562

Comprising:

- 2 reinforcing cross-pieces, to support the enclosure
- mounting hardware.

Canopies



Installed on fixing uprights or directly on the wall. They enhance protection of the switchboards against water or objects falling vertically.
Colour: RAL 7016.

description	cat. No.
Canopy W = 600 mm	05557
Canopy W = 300 mm	05558

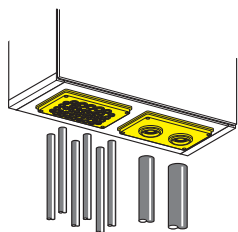
Delivered with:

- hardware for fixing to the uprights
- the components required for joining to another canopy.

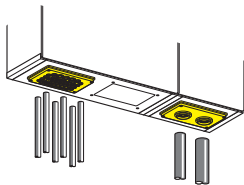
Membrane gland plates IP55



05569



05570

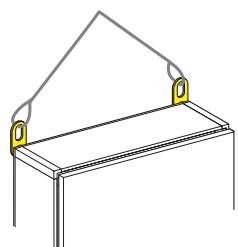


These gland plates, which are made of an insulating material, may be installed in the place of the standard steel gland plates supplied with the enclosure (2 gland plates) or duct (1 gland plate).

It is thus possible to run cables of various cross sections into the switchboard without the need for glands or any special tools, while maintaining the degree of protection IP55.

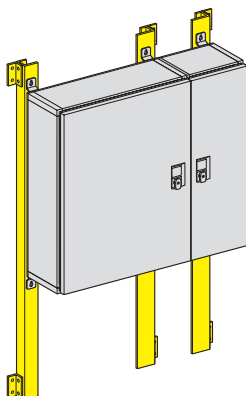
description	cat. No.
gland plate 39 holes to accommodate: 3 cables dia. 14 to 26 mm + 4 cables dia. 10 to 20 mm + 32 cables dia. 7 to 16 mm	05569
gland plate 2 holes to accommodate: 2 cables dia. 33 to 72 mm	05570

Lifting rings



Either fixed directly to the switchboard or to the fixing uprights, so that the assembly may be moved.

description	cat. No.
set of 2 lifting rings	09070



Fixing on uprights

For fixing one or more vertically or horizontally-joined enclosures to the wall. The uprights form a space for cable running at the back of the switchboard and contribute to ventilation.

Colour: RAL 7016

For a single enclosure or cubicle, order 2 wall-fixing uprights.

For each enclosure, cubicle or duct joined to the single enclosure or cubicle, order 1 additional wall-fixing upright.

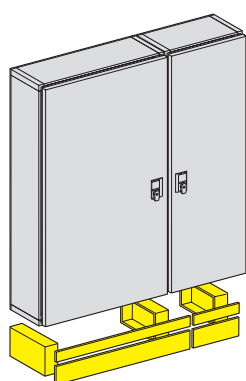
description	cat. No.
1 wall-fixing upright W = 2100 mm	05551

Supplied with:

- 2 adjustable wall-fixing lugs
- 1 splice for joining to a plinth or another upright.

Note:

For the example opposite, order:
3 wall-fixing uprights 05551 x 3.



Fixing on plinth alone

Installed in the factory or on site, the plinth raises the switchboard to protect it and facilitates spreading of cables coming from a trench.

Colour: RAL 7016

The wall fixing lugs delivered as standard avoid all risk of the switchboard falling over.

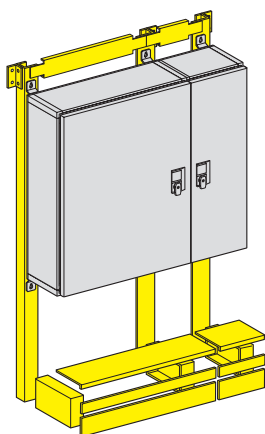
For a single enclosure or cubicle, order 2 gussets + 1 front panel for plinth W = 600 mm.

For each enclosure, cubicle or duct joined to the single enclosure or cubicle, order 1 additional gusset and the corresponding plinth front panel.

description	cat. No.
1 plinth gusset	05554
1 front panel for plinth W = 600 mm	05555
1 front panel for plinth W = 300 mm	05556

Note:

For the example opposite, order:
3 plinth gussets, 05554 x 3
1 front panel for plinth W = 600 mm, 05555
1 front panel for plinth W = 300 mm, 05556.



Fixing on wall structure

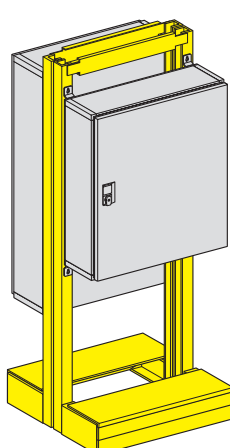
Easy installation. The switchboard is fixed to the structure either in the factory or directly on site. Two wall fixing lugs delivered as standard with the basic enclosure or cubicle avoid all risk of the switchboard from falling over.

Colour: RAL 7016.

description	cat. No.
1 wall-fixing upright W = 2100 mm	05551
1 plinth gusset	05554
1 front panel for plinth W = 600 mm	05555
1 front panel for plinth W = 300 mm	05556

Note:

For the example opposite, order:
3 wall-fixing uprights, 05551 x 3
3 plinth gussets, 05554 x 3
1 front panel for plinth W = 600 mm, 05555
1 front panel for plinth W = 300 mm, 05556.



Fixing on free-standing structure

Assembly comprising 2 wall structures joined back to back, making the switchboard a free-standing unit. May be moved with lifting rings 09070 and is easily secured to the floor.

Colour: RAL 7016.

description	cat. No.
1 wall-fixing upright W = 2100 mm	05551
1 plinth gusset	05554
1 front panel for plinth W = 600 mm	05555
1 front panel for plinth W = 300 mm	05556

Note:

For the example opposite, order:
4 wall-fixing uprights, 05551 x 4
4 plinth gussets, 05554 x 4
2 front panels for plinth W = 600 mm, 05555 x 2.

Prisma G/GX
Vertical partitioning Prisma GX

Metal partition forming a physical separation between the switchgear zone and the duct of a Prisma GX cubicle.

The partition:

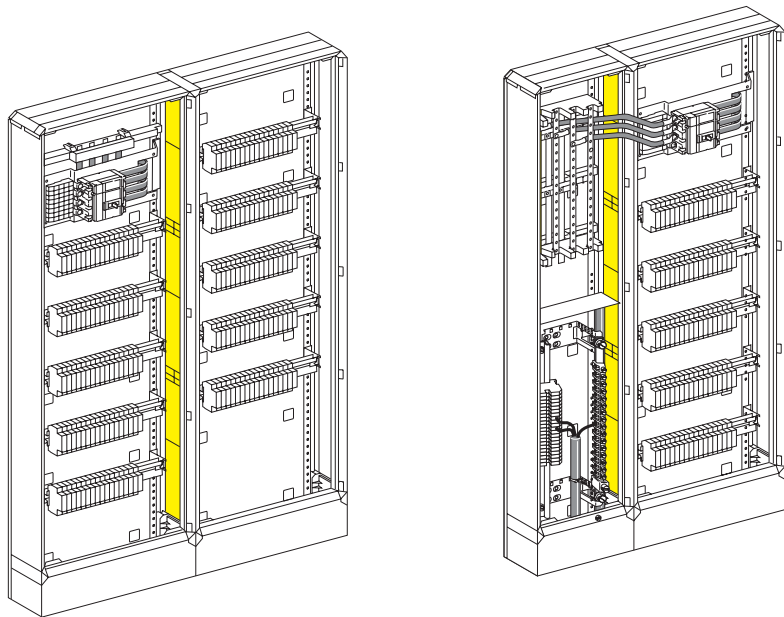
- separates the devices from the busbars or distribution blocks located in the duct, thus providing form 2 protection
- forms a dedicated zone for connections to terminals in the duct, insulated from the switchgear.

It is fixed directly to the functional uprights.

Marked cut-outs provide for the passage of connecting cables.

Catalogue numbers

description	cat. No.
vertical partition for Prisma GX cubicle	07337



Horizontal partitioning



07338 + 07339

Metal partition:

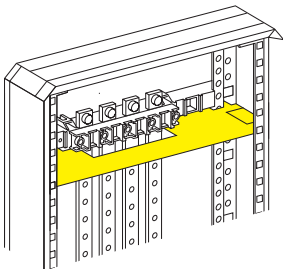
- separating each of the functional units in an enclosure or cubicle
- forming a physical separation between two functions (busbars and terminal blocks, for instance) in a Prisma GX duct.

The partitions are fixed directly to the functional uprights.

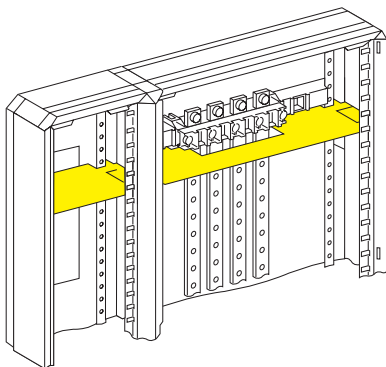
Marked cut-outs on the sides and bottom provide for the passage of cables or the installation of busbars at the rear of the switchboard.

Catalogue numbers

description	cat. No.
horizontal partition for enclosure and cubicle	07338
for duct, W = 300 mm (Prisma G/GX)	07339



Horizontal partition in a Prisma G enclosure.



Horizontal partition in a cubicle and in the 300 mm duct.

REDUIT 90 %

Prisma G / GX Gland plates



09055

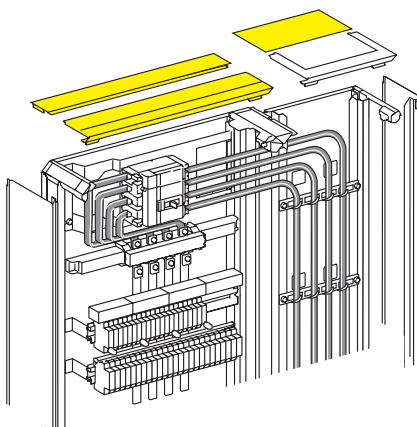


09056

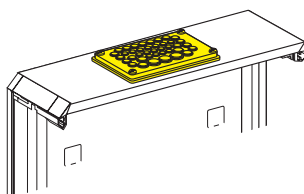
Gland plate for Prisma G/GX enclosure

- top or bottom gland plate for Prisma G enclosure
- top gland plate for Prisma GX basic or extension cubicle.

description	cat. No.
gland plate consisting of a metal part and a plastic part for cut-out (470 x 65 mm)	09055
metal gland plate (UK) consisting of a fixed part and a removable plate (410 x 120 mm)	09056
Prisma G cut-out plate for Prisma GK gland plate	09099



Gland plate in Prisma GX cubicle (09055) and 300 mm duct (09054).



Gland plate Prisma G (09099).



09054



09069

Top gland plate for Prisma G/GX duct, W = 300 mm

description	cat. No.
gland plate total area available for cut-outs: 190 x 120 mm easily cut plastic marked for cut-outs	09054
all metal gland plate total area available (UK) for cut-outs: 190 x 120 mm	09069

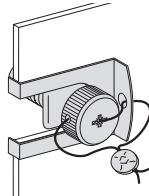
Prisma G / GX / GK

Accessories for service connection circuit breaker

Sealing screws

To fit lead seals on the front plate of a service connection circuit breaker.

description	cat. No.
set of 4 sealable screws	09927

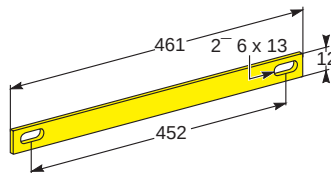


12 x 2 mm flat bar



description	cat. No.
12 x 2 mm flat bar	07046

Metal support with a hole at each end. May be fixed directly at the rear of an enclosure or cubicle. It is designed to accommodate multi-stage distribution blocks.



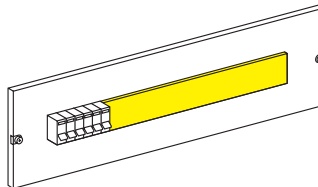
Blanking plates



for Multi 9 device

1 strip blanking plate Prisma beige
L = 1000 mm for Multi 9 (H = 46 mm)

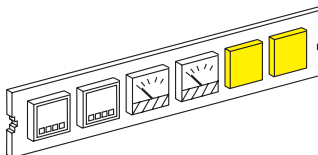
cat. No.
07340



for 72 x 72 mm device

72 x 72 mm blanking plate Prisma beige
set of hole punches for 72 x 72 mm blanking plate including Ø 22 mm and □ 46 mm

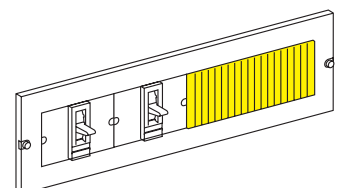
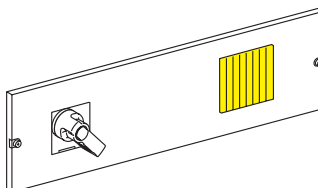
cat. No.
07347
03112



for Compact/Interpact device

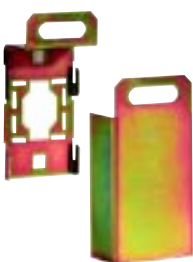
divisible blanking plate Prisma beige for Compact NS100/250 and Interpact IN125/160T vertical mounting (H = 80 mm, W = 122 mm)

cat. No.
07348

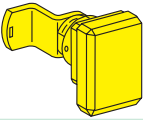


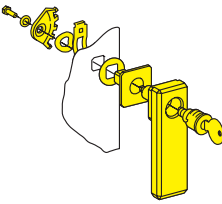
Prisma G, GX

Handles, barrels, combinations

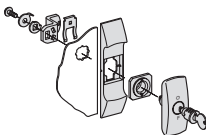


Metal handles

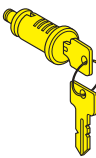
for Prisma G cubicle		cat. No.
	metal handle without key beige	09930
	metal handle with barrel + 2 keys 405 beige	09935

for Prisma GX cubicles		cat. No.
	metal handle with barrel + 2 keys 405, black	09936
	metal handle with barrel + 2 keys 405, beige	09940

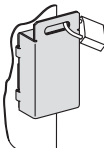
Plastic handles

description	cat. No.
 plastic handle without key for Prisma G/GX enclosures, black	09956
plastic handle with barrel + 2 keys 405 for Prisma G enclosures, black	09957

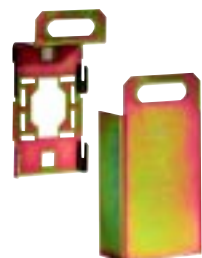
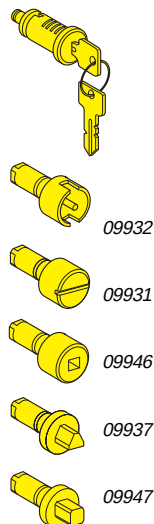
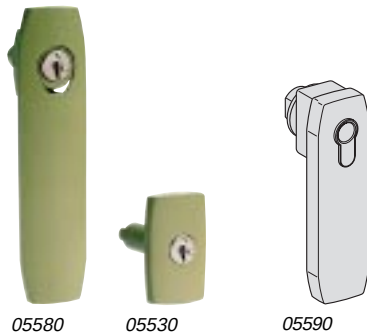
Barrels

description	cat. No.
 locks for handles 09956, 09957, 09930, 09935, 09936, 09940 and all Prisma G and Prisma GX enclosures (after removal of barrel 405)	
barrel + 2 keys 2433 A	09933
barrel + 2 keys 455	09945
barrel + 2 keys 1242 E	09942
barrel + 2 keys 3113 A	09943
please consult us for other combinations of A and E type Ronis locks	
 slot for screwdriver	09931
 female square 6 mm	09946
 male square 6 mm	09949
 male square 7 mm	09947
 male square 8 mm	09948
 male triangle 7 mm	09937
 male triangle 8 mm (CNOMO)	09938
 male triangle 9 mm (EDF)	09939
 double bar 3 mm	09932

Padlocking system

description	cat. No.
 padlocking device	09951

Prisma GK Handles, barrels



Plain and transparent doors (7 to 23 modules) are supplied with a small handle with barrel 405.
Plain and transparent doors (27 to 33 modules) are supplied with a large handle with barrel 405.
Partial doors are supplied with a double bar lock.

All doors may be fitted with the following options:

- a large handle with barrel 405. The latter may be replaced by other barrels or special inserts
- a large EURO handle with barrel 1242 E. This may be replaced by all EURO half-barrels
- special inserts: slotted, square, triangular and double bar.

Handles

description	cat. No.
handle fitted with a barrel lock with 2 keys 405	05530
handle (W = 155 mm) fitted with a barrel lock with 2 keys 405	05580
handle fitted with a Euro Din barrel lock with 2 keys 1242 E	05590
handle without Euro Din barrel	05591

Barrels

description	cat. No.
locks for handles 05530, 05580, 05590 and all Prisma GK enclosures (after removal of barrel 405)	
barrel + 2 keys 2433 A	09933
barrel + 2 keys 455	09945
barrel + 2 keys 1242 E	09942
barrel + 2 keys 3113 A	09943
please consult us for other combinations of A and E	
type Ronis locks	
slot for screwdriver	09931
female square 6 mm	09946
male square 6 mm	09949
male square 7 mm	09947
male square 8 mm	09948
male triangle 7 mm	09937
male triangle 8 mm (CNOMO)	09938
male triangle 9 mm (EDF)	09939
double bar 3 mm	09932

Locks for doors without handles

These locks are fitted in the place of the handle supplied as standard.

description	cat. No.
slot for screwdriver	09981
3 mm double bar	09982
male triangle 7 mm	09983
male triangle 8 mm (CNOMO)	09984
male triangle 9 mm (EDF)	09985
male square 6 mm	09986
male square 7 mm	09987
male square 8 mm	09988
female square 6 mm	09989

Padlocking system

For 3 padlocks.

description	cat. No.
padlocking system	09951

To be installed on all doors, except those fitted with EURO locking fixtures.

Distribution, connection and accessories

Current distribution

Busbars at rear of switchboard	80
Busbars in the duct	82
Earth neutral bars	83
Insulated flexible copper strips connector	84
Hardware	85
Distribloc 125/160 A	86
Multiclip distribution blocks	88
Polybloc distribution blocks	92
Multi-stage distribution blocks 160/250/400 A	94
Strip terminal blocks 80 A	96
Side-by-side distribution blocks 80 A	97
Connection strips 80/125 A, Distribloc 125 A	98
Comb busbars for DPN, SFT and C60 devices	100
Comb busbars for NG125 A	102
Comb busbars for Declic and SFT residential devices	103

Connection

Installation of terminal blocks	104
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Cable running

Cable straps	106
Trunking supports	107
Security of cables	108

Installation accessories

Rails, mounting accessories	109
Various accessories	110
Raising of rails	111
Finishing accessories	112

Busbars 160/250/400 A



Installation of busbars at rear of a Prisma G enclosure.

The busbars are made up of fully insulated supports that may be fixed to functional uprights to accommodate four 15 x 5 (160 A), 20 x 5 (250 A), 32 x 5 (400 A) flat bars. A fifth bar may be added for a 15 or 20 x 5 earth / neutral bar. The bars have M6 tapped holes every 25 mm to facilitate connections from top to bottom of the switchboard.

Busbar support

description	cat. No.
busbar support 3P + N + E	07025

Copper bars

description	cross-section	cat. No.
4 bars L = 1000 mm	15 x 5 (160 A)	07021
	20 x 5 (250 A)	07022
	32 x 5 (400 A)	07023
4 bars L = 1400 mm	15 x 5 (160 A)	07017
	20 x 5 (250 A)	07018
	32 x 5 (400 A)	07019

Connection

- by flexible cables 16 mm² to 50 mm² with crimped lugs
- by flexible copper straps see page 84.

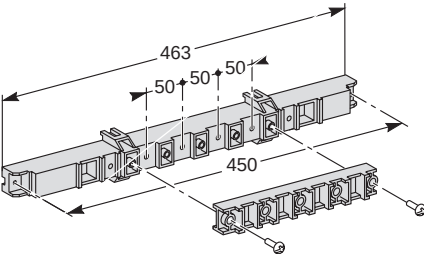
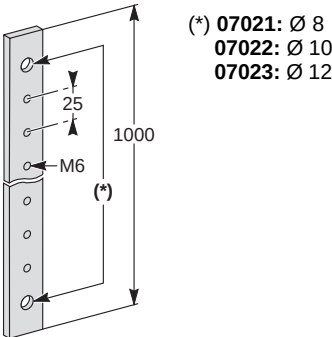
Electrical characteristics

- rated insulation voltage Ui = 1000 V.

Definition of number of supports as a function of the rated short-time withstand current: Icw

permissible current (A)	busbar cross-section (mm ²)	distance between busbar support centres (1) depending on Icw (Icw in kA rms/1 s)				
		10	13	15	20	25
160	15 x 5	450				
250	20 x 5	450	450	450		
400	32 x 5	450	450	450	300	225

(1) Multiclip distribution blocks may serve as intermediate supports (max. 200 mm between centres).



Accessories



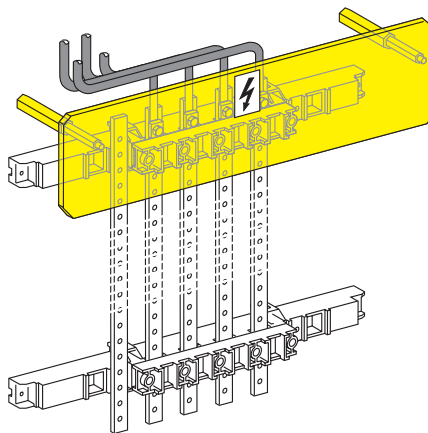
description

connection cover, H = 100, W = 470

cat. No.

07330

Insulating barrier preventing direct access to busbar connection terminals (IP XXB switchboard front panel).
Supplied with fixing spacers.



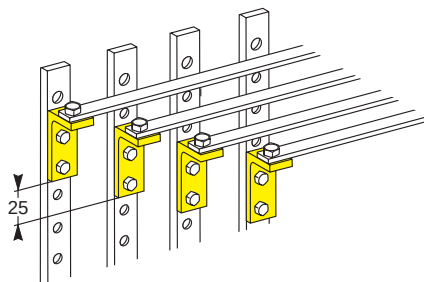
description

4 copper brackets (250 A)

cat. No.

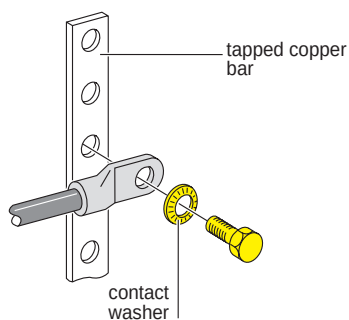
07045

To interconnect 2 busbars at the rear of the switchboard.
Delivered with screws.



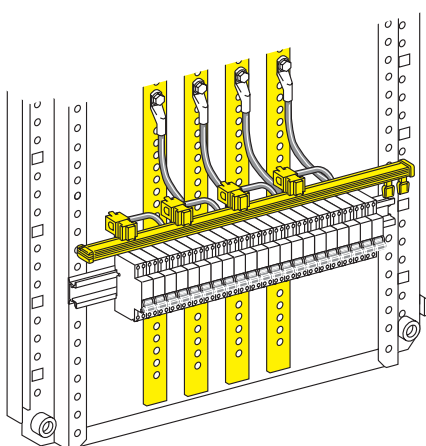
Class 8/8 hardware

See page 85.

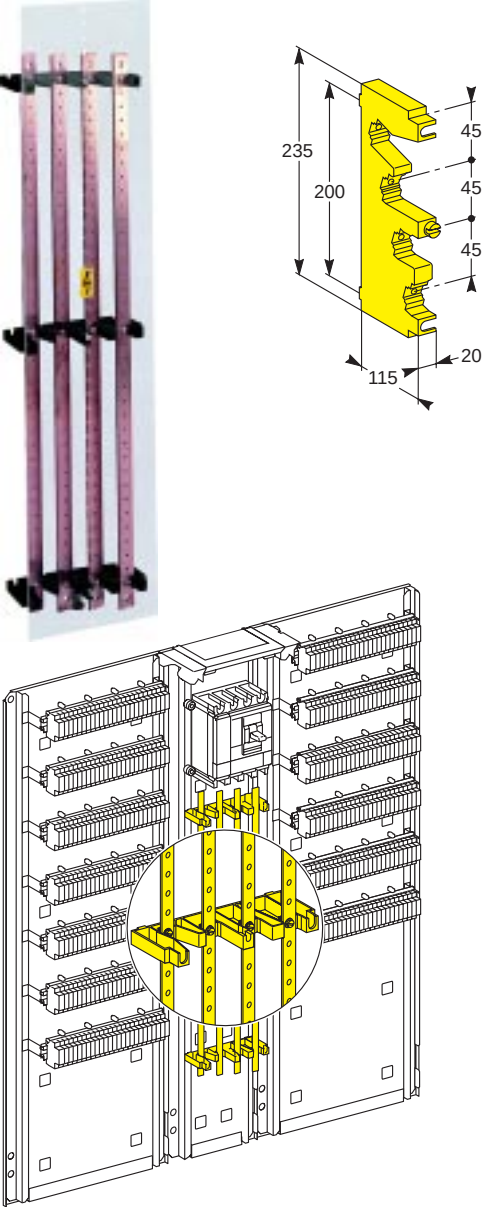


100 A connection

See page 101.



Busbars 160/250/400 A



- multi-stage busbars
- all connection points are directly accessible from the front
- a particularly good solution for distributing current to two enclosures or cubicles positioned on either side of the duct.

Components

- insulated multi-stage supports (distance between centres, see table below)
- 4 copper bars, of cross-section 15 x 5 (160 A), 20 x 5 (250 A), 32 x 5 (400 A), with M6 tapped holes every 25 mm for distribution of current from the top to the bottom of the switchboard. They are slanted to facilitate connection of cables. There is a 8.2 mm hole at each end for connection to the supply:
- 1 insulated barrier installed in front offers IP XXB protection for the busbars.

Busbar support

description	cat. No.
1 multi-stage support	07068

Copper busbar

length	cross-section	cat. No.
4 copper bars, L = 1000 mm	15 x 5 (160 A)	07021
	20 x 5 (250 A)	07022
	32 x 5 (400 A)	07023
4 copper bars, L = 1400 mm	15 x 5 (160 A)	07017
	20 x 5 (250 A)	07018
	32 x 5 (400 A)	07019

Barrier

description	cat. No.
isolated front barrier for busbars, L = 1500 mm	07069

Connection

- flexible cables, 16 mm² to 50 mm² with crimped lugs
- flexible straps, see page 84.

Electrical characteristics

- rated insulation voltage $U_i = 690$ V.

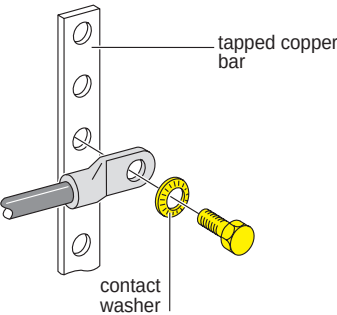
Definition of number of supports as a function of the rated short-time withstand current: I_{cw}

permissible current (A)	busbar cross-section (mm ²)	distance between busbar support centres depending on I_{cw} (I_{cw} in kA rms / 1 s)				
		10	13	15	20	25
160	15 x 5	450				
250	20 x 5	450	450	450(1)		
400	32 x 5	450	450	450	300	225(1)

(1) Support centre distances are indicated for a thermal withstand capacity expressed in kA rms / 0.6 s.

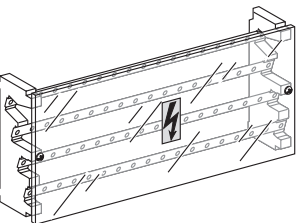
Class 8/8 hardware

See page 85.



Multi-stage distribution block

See page 94.



Earth/neutral bar



07047



07067



earth/neutral bar 40 clamps

cat. No.

earth/neutral bar 40 clamps distance between screw centres: 450 mm

07047

Installation

- in enclosures, direct installation in horizontal position on functional uprights
- in ducts, installation in vertical position on terminal block supports **07548**

Supplied with

- 1 connector for rigid or semi-rigid cable 35 mm²
- 2 insulating spacers for use on a neutral bar
- mounting hardware.

earth/neutral bar with 20 clamps

cat. No.

earth/neutral bar with 20 clamps distance between screw centres: 200 mm

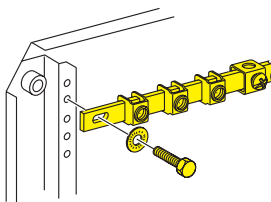
07067

Installation

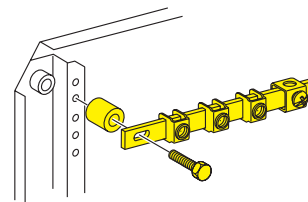
- in duct, direct installation in horizontal position on uprights
- in ducts, installation in vertical position on terminal block supports **07548**
- in enclosures, installation in vertical position on terminal mounting plate **07558**

Supplied with

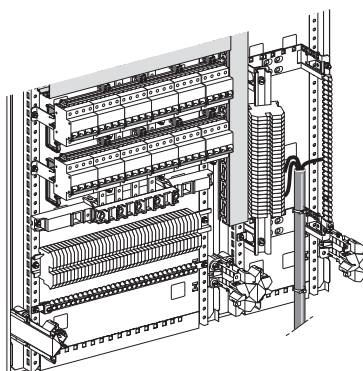
- 1 connector for rigid or semi-rigid cable 35 mm²
- 2 insulating spacers for neutral bar
- mounting hardware.



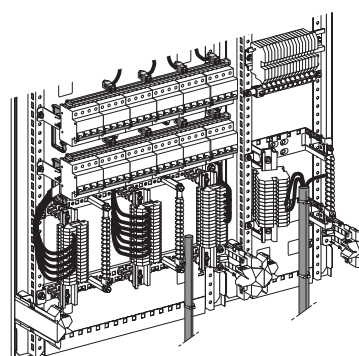
Earth bar



Neutral bar

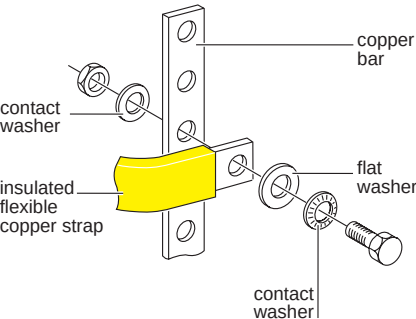


Installation of earth bar **07047** in Prisma GX enclosure.



Installation of earth bar **07067** in Prisma GX enclosure.

Flexible copper straps



Flexible copper straps L = 1750 mm, with insulated covering.
■ for circuit breakers (or contactors with the same rating), switches, fuse switches, Polypact distribution blocks and Multiclip.

devices	cross-section (mm) (1)	cat. No.
NS100/160	20 x 2	07071
NS250	20 x 3	07070
NS400	32 x 5	07074
NS630	32 x 8	07075
INS and IN125/160	20 x 2	07071
IN250	20 x 3	07070
IN400	32 x 5	07074
IN630	32 x 8	07075
Multiclip	20 x 2	07071
Polypact 3P	24 x 8	07077
Polypact 4P	24 x 6	07076
Fupact 250	24 x 5	07073
Fupact 400	32 x 5	07074
Fupact 630	32 x 8	07075

■ for disconnectors, busbar to busbar connections.

maximum Ie (A)	cross-section (mm) (2)	cat. No.
200	20 x 2	07071
220	24 x 2	07072
250	20 x 3	07070
400	24 x 5	07073
480	24 x 6	07076
520	32 x 5	07074
580	24 x 8	07077
660	32 x 8	07075

(1) Cross-section of flexible copper straps calculated as a function of connected switchgear regardless of the internal temperature of the switchboard.

(2) Cross-section calculated for a temperature of 60 °C inside the switchboard.

NB:

The temperature of 60 °C corresponds to the average temperature measured inside the switchboard, when installed in an ambient temperature of 40 °C.

Electrical characteristics

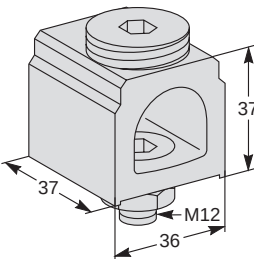
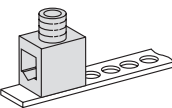
Rated insulation voltage: Ui = 1000 V.

Connector

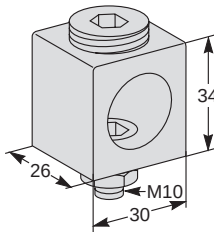


4 connectors for copper or aluminium cables:

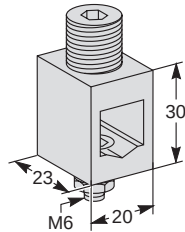
set of 4 connectors	cat. No.
180 A for rigid cables 70 mm ²	07051
250 A for rigid cables 185 mm ²	07052
400 A for rigid cables 300 mm ²	07053



07053



07052



07051

8/8 class hardware



07027



07028



07026

8/8 class bolts withstand the tightening torque recommended by Schneider. It is possible to achieve very accurate tightening torques and contact pressures that remain within $\pm 10\%$ over time.
Anticorrosion protection (Zn 8c).

For fixing directly to copper bars

set of 40 bolts with 2 contact washers	cat. No.
M6 x 16	07027

For connection of flexible copper straps to copper bars

set of 20 bolts with 2 contact washers and 1 flat washer each	cat. No.
M8 x 20	07028
M8 x 25	07029
M8 x 30	07044

For connection of copper bars or lugs to copper bars

set of 20 bolts with 2 contact washers each	cat. No.
M6 x 20	07026
M10 x 20	07085
M10 x 25	07030
M10 x 30	07086
M10 x 35	07087
M10 x 40	07088
M10 x 45	07089
M10 x 50	07090

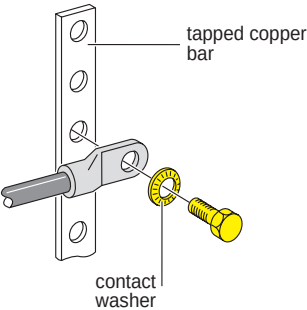
Tightening torque values to be used with 8/8 class hardware:

■ electrical connection obtained using 8/8 class hardware (bolt + nut + washers):

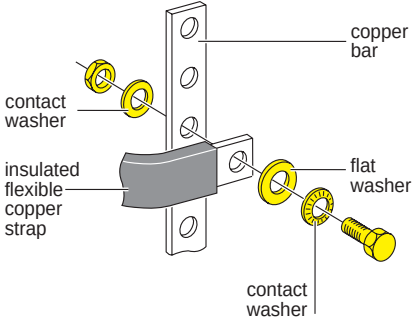
- M6: 1.3 mdaN
- M8: 2.8 mdaN
- M10: 5 mdaN

■ electrical connection obtained using 8/8 class bolt + contact washer screwed directly to 1 tapped copper bar:

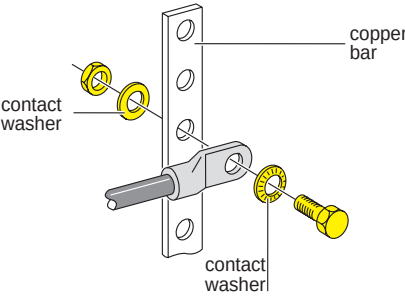
- M6: 0.52 mdaN.



07027 hardware for fixing a lug to a tapped copper bar



07028 hardware for connecting flexible copper straps to a copper bar



07026 hardware for connecting a lug to a tapped copper bar

Outgoing circuits are connected from the front, in spring cages.
The contact pressure of the spring is automatically adjusted to suit the cross-section of the conductor.
The pressure is not affected by vibrations and heat variations
Each cage can only accommodate a single flexible or rigid cable, with or without a crimped metal ferrules.
Degree of protection: IPXXB.

Advantages

- reliable, maintenance-free, electrical connection
- very rapid connection
- very simple re-balancing of phases
- easy switchboard extensions or modifications.

Distribloc



3-pole distribution block comprising:
■ a fully insulated, one-piece distribution block in compliance with IPXXB requirements (protection against direct contact)
■ a modular cover.
Designed with a 45 mm high nose for perfect integration in a row alongside modular devices.

3P Distribloc	cat. No.
Distribloc 125	07105
Distribloc 160	07106

Electrical characteristics

- rated insulation voltage: $U_i = 690\text{ V}$
- rated operating current: $I_e (40^\circ\text{C})$:
 - 125 A for Distribloc 125
 - 160 A for Distribloc 160 with prefabricated connection system for INS160
- rated short-time withstand current: $I_{cw} = 4.5\text{ kA rms/1s}$ in compliance with standard IEC 947.7.1
- peak withstand current: $I_{pk} = 20\text{ kA}$ in compliance with standard IEC 439.1 for detailed table taking into account the cross-section of connecting cables, see page 4
- complies with low voltage switchgear and controlgear standard IEC 947.7.1 and/or IEC 439.1
- rated impulse withstand voltage: $U_{imp} = 8\text{ kV}$.

Supply

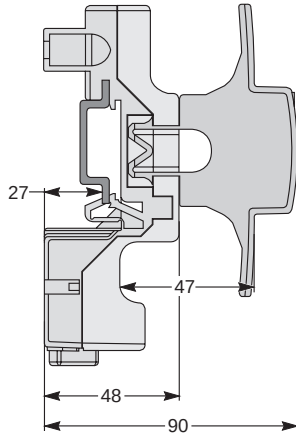
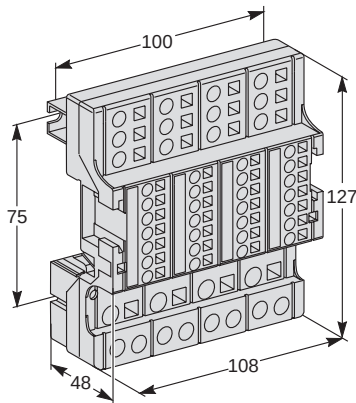
- Distribloc 125 in a tunnel terminal by 6 to 35 flexible cables (10 to 35 rigid)
- Distribloc 160 by a flexible prefabricated connection system supplied with the device. It is designed for connection to an INS100/160 switch, mounted on the left or right.

Distribution (for Distribloc 125 and 160)

- in spring cages:
 - 2 outgoing circuits connected by flexible or rigid cable 1 to 10
 - 3 outgoing circuits connected by flexible or rigid cable 1 to 6
 - 7 outgoing circuits connected by flexible or rigid cable 1 to 4
- in tunnel terminal:
 - 1 outgoing circuit connected by flexible cable 4 to 16 (4 to 25 rigid).

Supplied with

- a label for identification
- self-adhesive labels for marking the various phases
- a flexible prefabricated connection system for use with INS100/160 switches (Distribloc 160 only).



Accessory



Set of 4 flexible connections consisting of insulated copper cables, cross-section 35, L = 210 mm.

Connects an NG125 or any other modular circuit breaker, with or without Vigi, or 1 INS125 switch fitted with ordinary terminals to:

- 1 Distribloc 125 located on the same row
- 1 Distribloc 125 located on the row directly below.

connections 125 A

set of 4 connections 125 A

cat. No.

07054

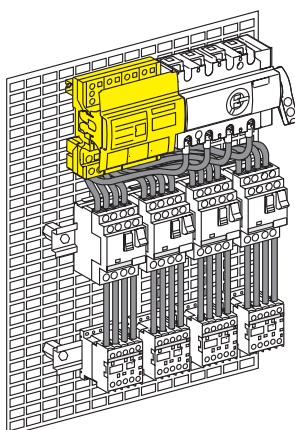
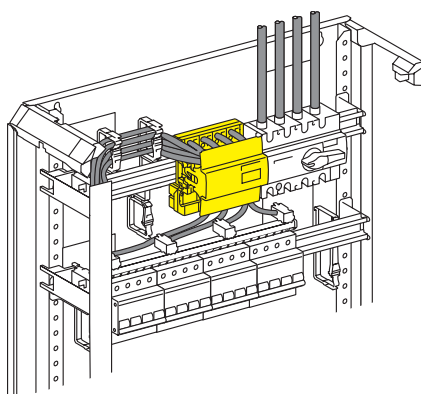
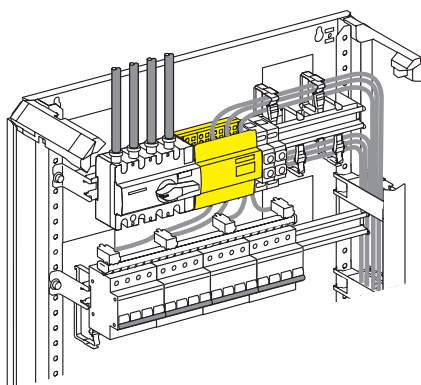


Mounting

- clipped onto Multifix or symmetrical rail
- horizontal space occupied: twelve 9 mm modules
- screwed onto plain or slotted plate. Distance between screw centres: 100 x 75.

Note

Distribloc distribution blocks cannot be installed in Opale, mini-Pragma, Pragma C, Pragma D flush-mounted and EK9 enclosures.

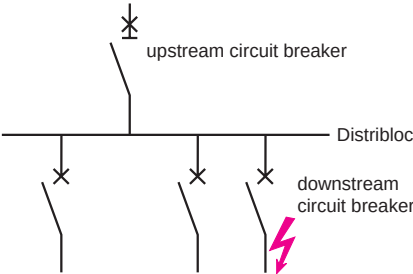


Short-circuit withstand current

The following table indicates the short-circuit withstand current (in kA rms) for various combinations of upstream and downstream devices on a three-phase 380/415 V installation.

down. device	up. device													
	NC100	NS100		NG125				NS125E	NSA160	NS160		NS250		NS400/630
	LH	N	L/H	a	N	H	L			N	L/H	N	L/H	
C60a (5 kA)	50	10	20	16	25	36	50	10	15	15	15/20	15	20	5
C60N (6 kA)	50	25	30	16	25	36	50	15	25	25	30	25	30	10
C60H (10 kA)	50	25	40	16	25	36	50	25	25	30	30	30	30	15
C60L 25 A (25 kA)	50	25	40	16	25	36	50	25	25	30	40	30	40	25
C60L 32-40 A (20 kA)	50	25	40	16	25	36	50	25	25	30	40	30	40	20
C60L 50-63 A (15 kA)	50	25	40	16	25	36	50	25	25	30	40	30	30	15
NC100H (10 kA)	50	25	30	10	10	10	50	25	25	25	30	25	30	10
other devices	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

(1) Check that the peak short-circuit current, which is limited by the downstream device, is lower than the permissible peak current of the terminal cross-section used.
Check that the thermal stress produced by the downstream device does not exceed the permissible thermal stress of the cable used.



Peak withstand current (IEC 439.1).

cross-section of connection terminals (mm ²)	I _{pk}
4	5 kA/60ms
6	11 kA/60ms
10	17 kA/60ms
16	20 kA/60ms

This table indicates the peak withstand current values for connecting cables ranging from 4 to 16 mm².

Outgoing circuits are connected from the front, without screws, in spring cages. The contact pressure of the spring is automatically adjusted to suit the cross-section of the conductor (minimum cross-section 1 mm²). The pressure is not affected by vibrations or heat variations. Each cage can only accommodate a single flexible or rigid cable, with or without a crimped metal ferrules. Degree of protection: IPXXB.

Advantages

- reliable, maintenance-free, electrical connection
- very rapid connection; very simple re-balancing of phases
- easy switchboard extensions or modifications.

Multiclip distribution block



Multiclip distribution block	cat. No.
Multiclip 2P (phase + neutral)	07002
Multiclip 3P (3 phases)	07003
Multiclip 4P (3 phases + 1 neutral)	07004
Multiclip 5P (3 phases + 2 neutral)	07005

Electrical characteristics

- rated operating current:
 - Ie 180 A (40 °C)
 - 220 A (20 °C)
- rated insulation voltage: $U_i = 440$ V
- rated impulse withstand voltage: $U_{imp} = 8$ kV
- rated short-circuit withstand current: see page 4.

Supply

Directly to terminals via cable with crimped lug, connector, flexible copper straps (20 x 2 mm) or busbars at the rear of the enclosure.

Distribution

Each phase (+ neutral) comprises 12 connection points for flexible or rigid 6 cable, with or without crimped metal ferrules.

Installation

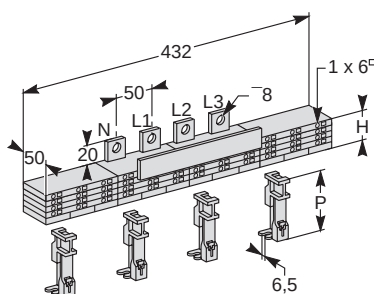
- clipped to the rear of the Multifix rail. In this way, the supply terminals of the Multiclip are in direct contact with the busbars at the rear of the enclosure or cubicle
- screwed to plain or slotted mounting plates.

Supplied with

- prestripped connection cables 40 A:
 - 24 connections for Multiclip 2P, 3P and 4P distribution blocks
 - 48 connections for Multiclip 5P distribution blocks.

accessories	cat. No.
Multiclip wiring cover	07331

protects wires and prevents direct access to the terminals of modular devices.



dimensions

	2P	3P	3P + N	3P + 2N
H	28	38	48	58
P	70 + 5	80	80	70

Multiclip 1/2 row distribution block



Multiclip 1/2 row distribution block

Multiclip 1/2 row 3P distribution block

cat. No.

07008

Supply

Directly to terminals via cable with crimped lug, connector or flexible copper straps (20 x 2 mm).

Distribution

4 poles comprising 6 connection points for flexible or rigid 6 cable, with or without crimped metal ferrule.

Installation

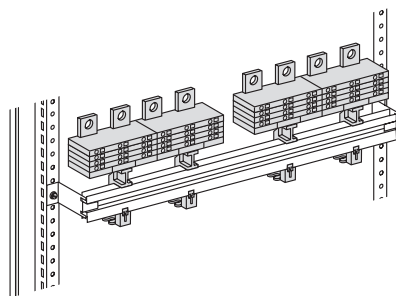
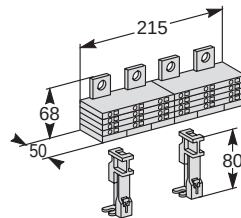
Clipped to the rear of the Multifix rail.

Supplied with

- a set of labels (neutral, phase 1, 2 and 3, and earth)
- 12 prestripped connections 40 A
- a cover to protect incoming circuits.

Electrical characteristics

Same as Multiclip.



Short-circuit withstand current

The following table indicates the short-circuit withstand current (in kA rms) for various combinations of upstream devices, Multiclip and downstream devices on a 380/415 V installation.

downstream device	short-circuit withstand current in kA rms, depending on upstream device:															
	NC100	NSA125 NS125	NG125				NS100			NS160			NS250			NS400/630/
	LH	E	a	N	H	L	N	H	L	N	H	L	N	H	L	
C60a (5 kA)	50	10	16	25	36	50	15	20	20	15	20	15	15	20	20	5
C60N (6 kA)	50	15	16	25	36	50	25	30	30	25	30	30	25	30	30	10
C60H (10 kA)	50	15	16	25	36	50	25	40	40	30	30	30	30	30	30	15
C60L 25 A (25 kA)	50	15	16	25	36	50	25	40	40	30	40	40	30	40	40	25
C60L 32-40 A (20 kA)	50	15	16	25	36	50	25	40	40	30	40	40	30	40	40	20
NC100H (10 kA)	50	10	10	10	10	50	25	30	30	25	30	30	25	30	30	10
other devices	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

(1) Check that the peak short-circuit current, limited by the downstream device, is lower than 12 kA.

Check that the thermal stress delivered by the downstream device does not exceed the permissible thermal stress of the 6 mm² cable (4.76 x 105 A2s).



1st example

Incoming circuit:

NS250N circuit breaker.

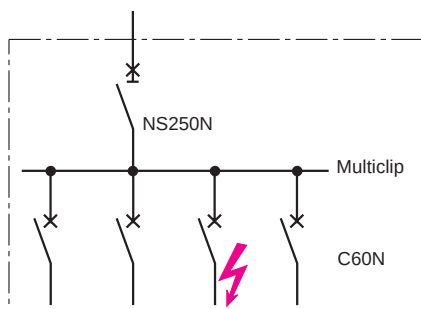
Outgoing circuits:

Multi 9 C60N circuit breakers.

Can a Multiclip be used to distribute the supply to the C60N units?

Answer:

Yes, with a maximum I_{cw} value of 25 kA (see shaded strip in the table above).



2nd example

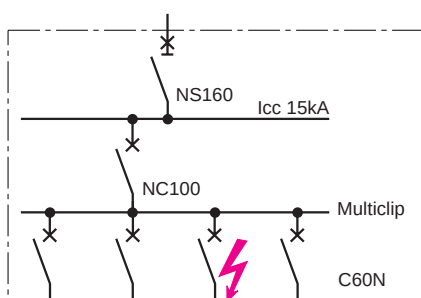
After combining NS160 and NC100 in accordance with the rules for cascading (I_{cc} 15 kA/NC100), can a Multiclip be used to distribute the supply to the C60N units?

Answer:

Yes, because the layout is equivalent to direct NS160-C60N connection.

The Multiclip has been designed to adapt perfectly to Merlin Gerin switchgear and equipment systems.

This example shows that using the Multiclip in the standard configuration (fitted on a Multifix rail with an incoming wiring cover) maintains the performance achieved by cascading circuit breakers.

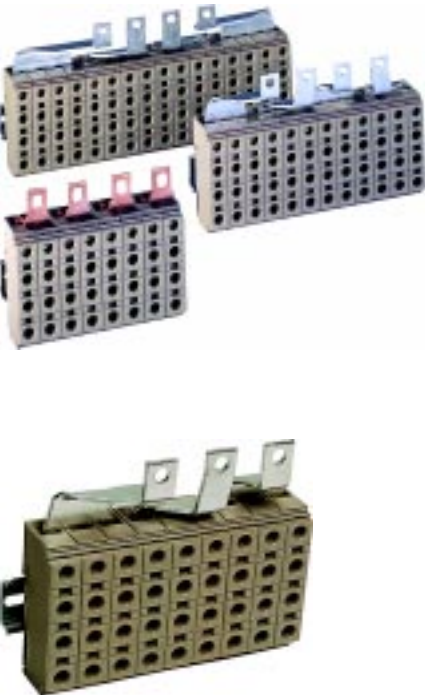


Outgoing circuits are connected from the front, without screws, in spring cages. The contact pressure of the spring is automatically adjusted to suit the cross-section of the conductor (minimum cross-section 1 mm²). The pressure is not affected by vibrations or heat variations. Each cage can only accommodate a single flexible or rigid cable, with or without a crimped metal ferrules. Degree of protection: IPXXB.

Advantages

- reliable, maintenance-free, electrical connection
- very rapid connection; very simple re-balancing of phases
- easy switchboard extensions or modifications.

Polybloc



A Merlin Gerin patented distribution block for wired connections. Specially designed for installation downstream of Compact and Interpact devices.

3-pole Polybloc units	cat. No.
Polybloc for 9 outgoing circuits 250 A (40°C)	07103

4-pole Polybloc units	cat. No.
Polybloc for 6 outgoing circuits 160 A (40°C)	07100
Polybloc for 9 outgoing circuits 250 A (40°C)	07101
Polybloc for 12 outgoing circuits 250 A (40°C)	07102

Electrical characteristics

- rated insulation voltage: $U_i = 750\text{ V}$
- rated operating current: $I_e (40^\circ\text{C})$:
 - 125 A for 1 unit with 3 outgoing circuits
 - 160 A for Polybloc unit with 6 outgoing circuits
 - 250 A for Polybloc unit with 9 or 12 outgoing circuits
- rated short-circuit withstand current: see table opposite
- rated impulse withstand voltage: $U_{imp} = 8\text{ kV}$.

Supply

- direct to terminals of Compact NS devices up to 250 A and Interpact devices up to 160 A
- by 70 flexible cable, with crimped lugs or via a connector.

Distribution

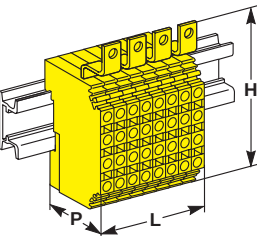
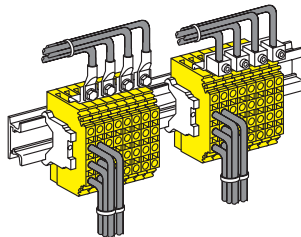
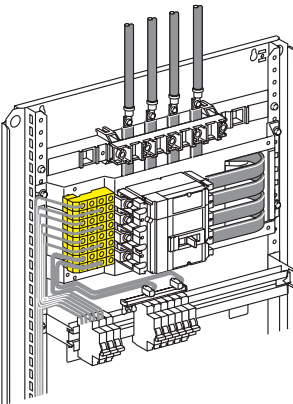
Up to 10 flexible or rigid cables with or without metal terminal ends. Each spring cage can accommodate only one cable at time.

Mounting

- directly on mounting plates of Compact NS 100/250A units or Interpact IN125/160T units (Prisma G functional system)
- Multifix or symmetrical rail.

Supplied with

- 1 insulating barrier in front (IPXXB) to protect against direct access to Polybloc terminals (except 07100).



terminal block	cat. No.			
dimensions	07100	07101	07102	07103
H	135	135	135	135
L	144	216	288	162
P	45	45	45	45

Short-circuit withstand currents

The table below gives the short-circuit withstand capacity (in kA rms) for various combinations of upstream device, Polybloc, comb busbars and downstream device, on a 380/415 V AC system (for 3 x 230 V, please consult us).

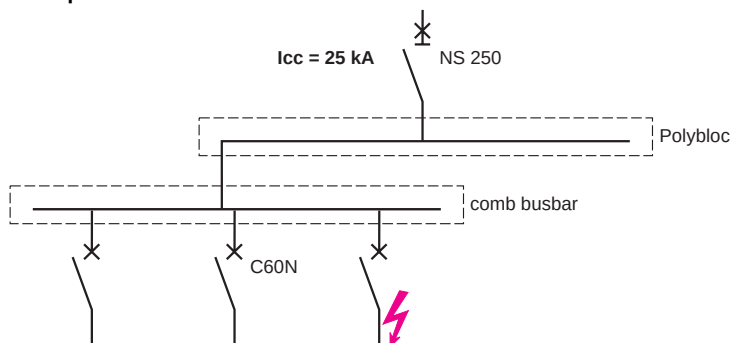
downstream device	short-circuit withstand capacity (in kA rms) for various upstream devices:																
	NC100		NSA125 NS125	NG125				NS100			NS160			NS250			NS400/630/
	L	LH	E	a	N	H	L	N	H	L	N	H	L	N	H	L	
C60a (5 kA)	25	50	10	16	25	36	50	10	20	20	15	20	15	15	20	20	5
C60N (6 kA)	25	50	15	16	25	36	50	25	30	30	25	30	30	25	30	30	10
C60H (10 kA)	25	50	15	16	25	36	50	25	40	40	30	40	30	30	30	30	15
C60L 32-40 A (20 kA)	25	50	15	16	25	36	50	25	40	40	30	40	40	30	40	40	20
C60L 25 A (25 kA)	25	50	15	16	25	36	50	25	40	40	30	40	40	30	40	40	25
C60L 50-63 A (15 kA)	25	50	15	16	25	36	50	25	40	40	30	30	40	30	30	30	15
NC100H (10 kA)	10	50	10	10	10	10	50	25	30	30	25	30	30	25	30	30	10
other devices	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

(1) Check that the peak short-circuit current, limited by the downstream device, is less than 14 kA.

Check also that the thermal stresses delivered by the downstream device are not greater than $1.05 \times 10^7 \text{ A}^2\text{s}$ for the Polybloc and $3 \times 10^6 \text{ A}^2\text{s}$ for the comb busbars.



Example:



Multi-stage distribution blocks 160/250/400 A

Multi-stage distribution block



Multi-stage distribution blocks (13 outgoing circuits per phase) may be installed either horizontally in the switchgear zone or vertically in the duct of a Prisma G enclosure or Prisma GX cubicle, W = 300 mm.

They consist of

- 2 multi-stage supports in insulating material
- 4 copper bars set at an angle, with tapped holes on 25 mm centres:
- 13 M6 tapped holes
- 4 unthreaded holes (12.2 mm).

multi-stage distribution block	cross-section of bars (mm)	cat. No.
distribution block 160 A (40 °C)	15 x 5	07057
distribution block 250 A (40 °C)	20 x 5	07058
distribution block 400 A (40 °C)	32 x 5	07059

Electrical characteristics

- rated operating current: Ie (40 °C):
- 160 A for distribution block 07057
- 250 A for distribution block 07058
- 400 A for distribution block 07059
- rated insulation voltage: Ui = 750 V
- rated short-time withstand current, Icw:
- 10 kA rms/1s for 160 A distribution block
- 13 kA rms/1s for 250 A distribution block
- 20 kA rms/1s for 400 A distribution block
- peak withstand current, Ipk:
- 30 kA for 160 A distribution block
- 30 kA for 250 A distribution block
- 40 kA for 400 A distribution block
- rated impulse withstand voltage: Uimp = 8 kV.

Supply

- by cables 16 mm² to 50 mm² with crimped lugs
- by flexible copper straps 20 x 2 for NS 100/160
- by flexible copper straps 20 x 3 for NS 250
- by flexible copper straps 32 x 5 for NS 400.

Distribution

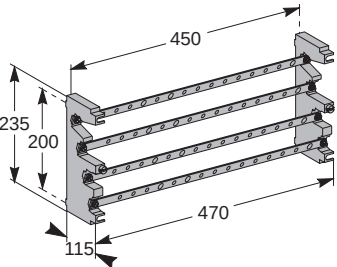
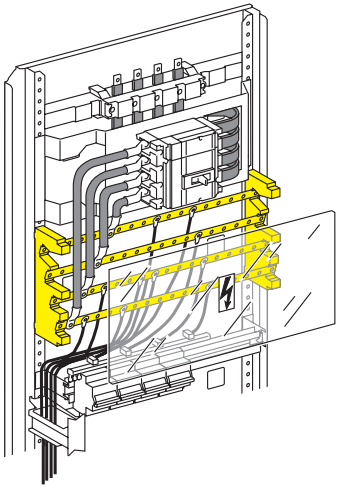
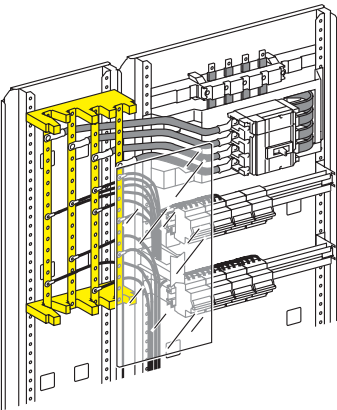
13 outgoing circuits per phase, maximum 50 mm².

Mounting

- screwed in horizontal position on functional uprights of Prisma G and GE enclosures and Prisma GX and GR cubicles
- screwed in vertical position on duct uprights of Prisma GX cubicles.

Supplied with

- 1 bag of M6 hardware
- 1 insulating barrier in front for IPXXB.



Multi-stage distribution blocks 160/250 A

Multi-stage distribution blocks



multi-stage distribution blocks	cat. No.
160 A maxi (40 °C)	07055
250 A maxi (40 °C)	07056

The cross-section of the holes is indicated for rigid cables.

Electrical characteristics

■ rated operating current: I_e (40 °C):

□ 160 A for **07055**

□ 250 A for **07056**

■ rated insulation voltage: U_i = 500 V

■ rated short-time withstand current:

□ I_{cw} = 10 kA rms/1s for 160 A distribution block

□ I_{cw} = 13 kA rms/1s for 250 A distribution block

■ peak withstand current:

□ I_{pk} = 50 kA.

Supply

Incoming cable via crimped lugs:

■ 70 maximum for 160 A distribution block

■ 95 maximum for 250 A distribution block.

Distribution

5 outgoing circuits per phase:

■ 35 maximum for 160 A distribution block

■ 50 maximum for 250 A distribution block.

Mounting

■ screwed on plain or slotted plate. Distance between screw centres: 125 x 200

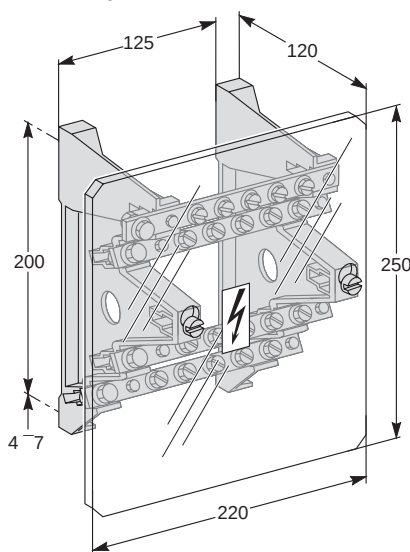
■ on 2 cable tie bars in Prisma G and GE enclosures and Prisma GX and GR cubicles

■ direct to the functional uprights of the Prisma GX duct.

Supplied with

■ transparent, insulating cover

■ mounting hardware.



Multi-stage distribution block from separate elements



multi-stage distribution block from separate elements		cat. No.
2 supports for multi-stage distribution block		07066
4 copper bars with M6 tapped holes, L = 1000	160 A	07021
	250 A	07022
insulating cover, L = 1000		07336
40 M6 x 16 screws		07027
20 bolts (bolt + nut + 2 contact washers)	M6 x 20	07026
	M8 x 20	07028
	M10 x 25	07030

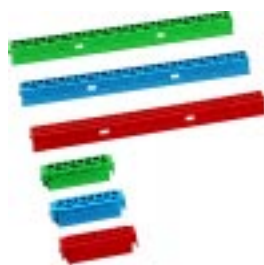
Distance between screw centres (mm)

type of multi-stage block	I_{cw} (kA rms/1s) (400 V)	max. distance (mm)
160 A (40 °C)	0 to 10	450
250 A (40 °C)	0 to 13	450

type of multi-stage block	I_{pk} (kA)	distance (mm)
160 A and 250 A	0 to 15	450
	15 to 30	300
	30 to 40	250
	40 to 50	125



Strip terminal blocks



Protective covers



Identification card

Strip terminal block

Composition

It consists of:

- a brass terminal strip
 - a support made of an insulating, self-extinguishing material:
 - as per standard NFC 61910
 - beige colour
 - it may be customised using optional, clip-on markers:
 - blue for neutral
 - yellow/green for earth
 - bevelled holes make it easier to fit cables into the terminal block
 - each terminal is numbered to identify outgoing circuits easily.
- It may be fitted with a cover to implement IP2 protection (see below).

Choice of catalogue items

strip terminal blocks	L (mm)	cat. No.
4 holes (2 x 10 ⁻³ + 2 x 16 ⁻³)	85	13575
8 holes (4 x 10 ⁻³ + 4 x 16 ⁻³)	85	13576
16 holes (8 x 10 ⁻³ + 8 x 16 ⁻³)	202	13577
22 holes (11 x 10 ⁻³ + 11 x 16 ⁻³)	202	13578
32 holes (16 x 10 ⁻³ + 16 x 16 ⁻³)	202	13579

Electrical characteristics

- rated operating current: I_e (40 °C) = 80 A
- rated insulation voltage: U_i = 500 V.

Protective cover

- is clipped on the insulating support
- implements IP2 protection.

protective cover	terminal blocks	cat. No.
yellow/green	4 and 8 holes	13582
	16, 22 and 32 holes	13583
red	4 and 8 holes	13584
	16, 22 and 32 holes	13585
blue	4 and 8 holes	13586
	16, 22 and 32 holes	13587

Prisma terminal block support	L (mm)	cat. No.
for Prisma G/GX/GK	430	07046

Identification card

Identifies the terminal blocks: neutral or earth.

identification card	cat. No.
2 x 50 markers: 50 blue markers, 50 yellow/green markers	14989

Side-by-side distribution blocks 80 A



description	cat. No.
side-by-side distribution blocks	
1P (2 x 25 ² + 4 x 16 ²)	14936
1P (2 x 35 ² + 4 x 25 ²)	14938
2P (2 x 25 ² + 2 x 16 ²)	14937
2P (2 x 35 ² + 2 x 25 ²)	14939

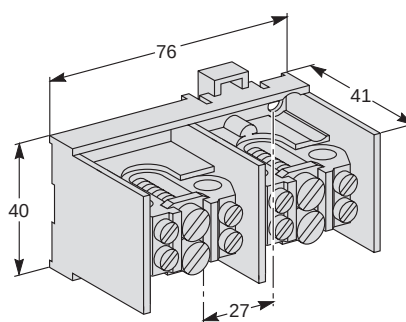
The 1P and 2P distribution blocks can be combined to form 3P and 4P blocks.
The cross-section of the holes is indicated for rigid cables.

Electrical characteristics

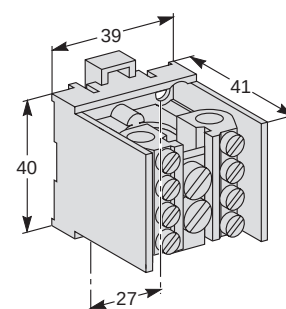
- rated operating current: I_e (40°C) = 80 A
- rated insulation voltage: U_i = 500 V.

Mounting

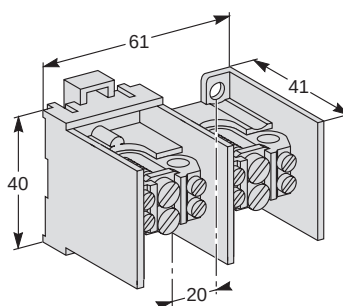
Clipped onto Multifix or symmetrical rail.
Fixed with M4 screws to plain or slotted mounting plate.



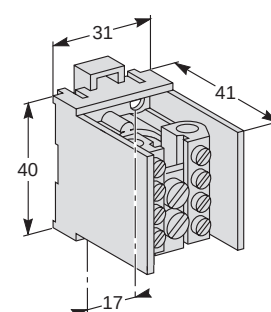
14939



14938



14937



14936

Connection strips 80/125 A

Distribution block 125 A

Distribution blocks



Composition

The distribution block consists of:

- a support made of an insulating, self-extinguishing material, beige in colour, as per standard NFC 61910. Each support may be customised using optional, clip-on markers:
- blue for neutral
- yellow/green for earth
- a connection strip.

Choice of catalogue items

distribution block 80 A (40 °C)		cat. No.
4 holes (2 x 10 ² + 2 x 16 ²)	L = 68	14975
distribution block 125 A (40 °C)		
6 holes (3 x 10 ² + 2 x 16 ² + 1 x 35 ²)	L = 68	14976
10 holes (5 x 10 ² + 4 x 16 ² + 1 x 35 ²)	L = 115	14977
14 holes (7 x 10 ² + 6 x 16 ² + 1 x 35 ²)	L = 115	14979

The cross-section of the holes is indicated for rigid cables.

Electrical characteristics

Rated insulation voltage: U_i = 500 V.

Installation

- clipped onto:
- 12 x 2 flat bar
- Multifix rail and symmetrical rail
- screwed onto:
- any support (plain or slotted plate) via the two lugs.

Connection

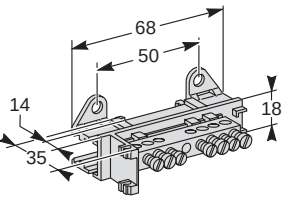
minimum cross-section for connection	
in 35 hole:	16 rigid or 25 semi-rigid cable
in 16 hole:	1.5 rigid or semi-rigid cable
in 10 hole:	1.5 rigid or semi-rigid cable

A crimped end is recommended for flexible cables.

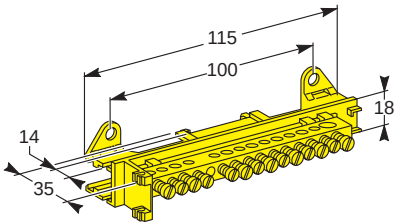
Cross-section of conductors

Correspondence between flexible and rigid cables used for connection.

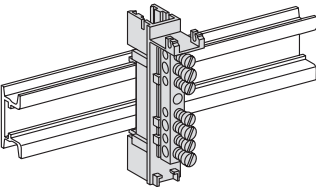
cable (mm ²)							
flexible	1.5 ²	2.5 ²	4 ²	6 ²	10 ²	16 ²	25 ²
rigid	1.5 ²	2.5 ² or 4 ²	6 ²	10 ²	16 ²	25 ²	35 ²



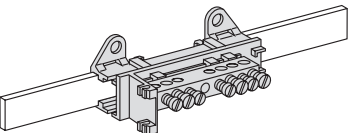
14976



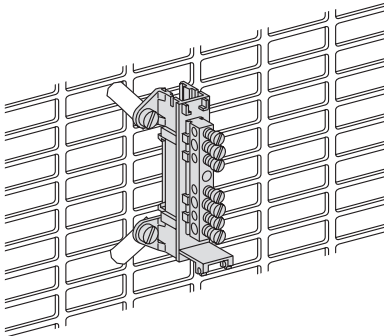
14979



Distribution block mounted on a Multifix rail.



Distribution block mounted on a 12 x 2 mm flat bar.



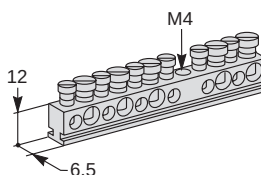
Distribution block connected to a slotted plate.

Connection strip



connection strip 80 A (40 °C)		cat. No.
4 holes (2 x 10 [□] + 2 x 16 [□])	L = 32	14962
connection strip 125 A (40 °C)		cat. No.
6 holes (3 x 10 [□] + 2 x 16 [□] + 1 x 35 [□])	L = 50	14963
10 holes (5 x 10 [□] + 4 x 16 [□] + 1 x 35 [□])	L = 74	14964
14 holes (7 x 10 [□] + 6 x 16 [□] + 1 x 35 [□])	L = 98	14965

The cross-section of the holes is indicated for rigid cables.
Each strip has one hole, M4 tapped, for screw fixing to any support.



Identification card



Identifies the connection strips: neutral or earth.

identification card	cat. No.
2 x 50 markers 50 blue markers, 50 yellow/green marker	14989

Multi-stage distribution block 125 A



multi-stage distribution blocks 2P	I _e (40 °C)	cat. No.
2 x 7 holes (1 x 7 [□] + 3 x 5,5 [□] + 3 x 4,4 [□])	100 A	13506
2 x 13 holes (1 x 8,5 [□] + 2 x 7 [□] + 5 x 5,5 [□] + 5 x 4,4 [□])	125 A	13507
multi-stage distribution blocks 4P	I _e (40 °C)	cat. No.
4 x 13 holes (2 x 5,5 [□] + 11 x 4,4 [□])	40 A	13508
4 x 7 holes (1 x 7 [□] + 3 x 5,5 [□] + 3 x 4,4 [□])	100 A	13510
4 x 13 holes (1 x 8,5 [□] + 2 x 7 [□] + 5 x 5,5 [□] + 5 x 4,4 [□])	125 A	13512
4 x 17 holes	125 A	13514

The cross-section of the holes is indicated for rigid cables.

extended neutral bar	I _e (40 °C)	cat. No.
8 holes, for distribution block ref. 13510	100 A	13515
13 holes, for distribution block ref. 13508	40 A	13516
16 holes, for distribution block ref. 13512	125 A	13517
20 holes, for distribution block ref. 13514	125 A	13518

Electrical characteristics

- rated operating current: I_e (40 °C) = 125 A
- rated insulation voltage: U_i = 500 V
- rated short-time withstand current: I_{cw} = 3.5 kA rms/1s
- peak withstand current: I_{pk} = 20 kA
- rated impulse withstand voltage: U_{imp} = 8 kV.

Mounting

- clipped onto Multifix or symmetrical rail
- screwed on plain or slotted plate
- connected with flexible or rigid cable with or without a crimped metal ferrules.

Supplied with

- transparent, insulating cover
- mounting hardware.

Range of comb busbars for 18 mm terminal spacing

- supplied with two IP2 end-caps
- markers can be fitted for circuit identification
- cutting locations are marked on the copper bars and on the insulation
- self-extinguishing insulating material, colour RAL 7016
- unused teeth may be insulated by fitting tooth-caps.

1P + N and 3P + N comb busbars



comb busbars	cat. No.
for Declic, DPN, DPN N, SFT and STI	26-mod. comb 14880
1P + N	set of two 48-mod. combs 14890
3P + N	set of two 48-mod. combs 14899

Electrical characteristics

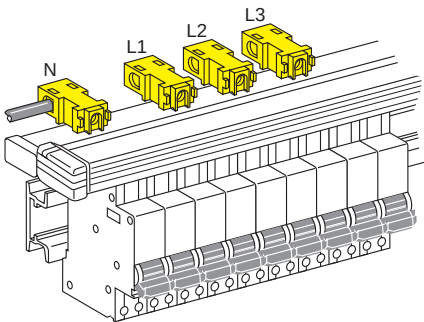
- rated operating current: Ie (40 °C):
 - 100 A with 1 central supply point
 - 125 A with 2 supply points
- rated insulation voltage: 250 V
- short-circuit withstand capacity compatible with the breaking capacities of Merlin Gerin modular circuit breakers.

Connection

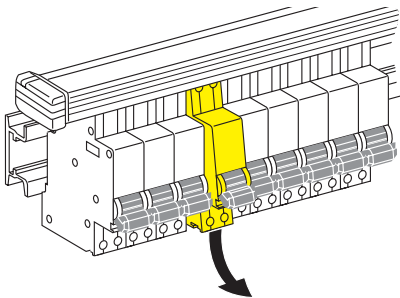
Supply:

- by semi-rigid cable:
 - 16 with DPN circuit breakers
 - 10 with SFT and STI devices, directly in their tunnel terminals
- by 25 semi-rigid cable via connector **14885**.

accessories	for comb busbars	cat. No.
set of 40 end-caps	1P + N	14886
	3P + N	14887
set of 40 tooth-caps	1P + N and 3P + N	14898

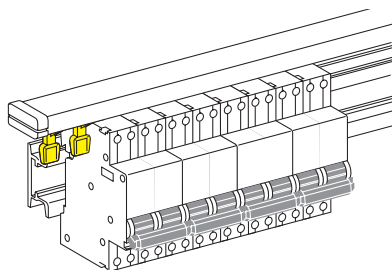
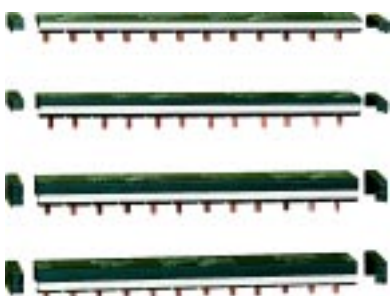


3P + N comb busbar **14899**.



1P + N comb busbars make it possible to dismount Declic and DPN circuit breakers.

1P, 2P, 3P and 4P comb busbars



Tooth-caps may be fitted to insulate unused teeth.

comb busbars		cat. No.
for C60a/N/H/L, SFT, STI (except 3P + N)		
1P	24-mod. comb	14881
	108-mod. comb (L = 1 m)	14801
	set of two 48-mod. combs	14891
2P	24-mod. comb	14882
	108-mod. comb (L = 1 m)	14802
	set of two 48-mod. combs	14892
3P	24-mod. comb	14883
	108-mod. comb (L = 1 m)	14803
	set of two 48-mod. combs	14893
4P	24-mod. comb	14884
	108-mod. comb (L = 1 m)	14804
	set of two 48-mod. combs	14894
accessories		cat. No.
set of 40 end-caps	1P, 2P	14886
	3P, 4P	14887
set of 40 tooth-caps	1P, 2P, 3P, 4P	14888

Electrical characteristics

■ rated operating current: I_e (40 °C):

□ 100 A with 1 central supply point

□ 125 A with 2 supply points

■ rated insulation voltage: 500 V (as per IEC 664)

■ short-circuit withstand capacity compatible with the breaking capacities of Merlin Gerin modular circuit breakers.

Connection

Supply:

■ by semi-rigid cable:

□ 25 with C60 circuit breakers (all ratings)

□ 10 with SFT and STI devices, directly in their tunnel terminals

■ by 25 semi-rigid cable via connector 14885.

Connectors



■ compatible with SFT, STI, C60 comb busbars

■ clipped firmly onto insulated parts of comb busbars

■ can be fitted with Telemecanique clip-on markers for circuit identification.

connectors	cat. No.
set of 4 insulated connectors for 25 cables	14885

100 A connection



Flexible connection system, made of insulated copper cables (class 2: 1000 V insulation) with:

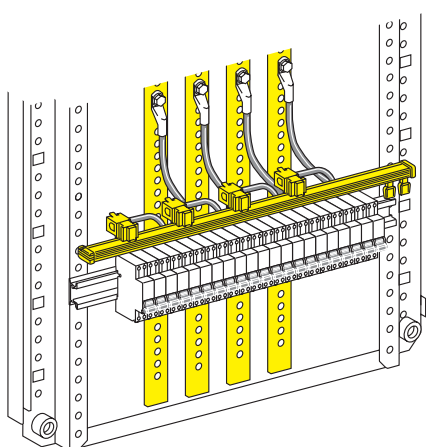
■ 6.9 x 2.5 mm ferrule crimped at one end for 16 tunnel terminals

■ 90° lugs with 8.5 mm holes crimped at the other end.

Applications

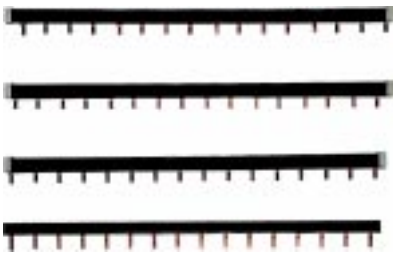
■ direct connection between busbars at the rear of an enclosure and a comb busbar.

100 A connection	L (mm)	cat. No.
set of four 100 A cables	420	07038



Direct connection between busbars at the rear of a Prisma G enclosure and a row of modular devices.

1P, 2P, 3P and 4P comb busbars



Description

- range of 1P, 2P, 3P and 4P comb busbars for 27 mm terminal spacing
- length:
 - 432 mm (16 x 27 mm) for 1P, 2P and 4P comb busbars
 - 405 mm (15 x 27 mm) for 3P comb busbar
- insulating material, colour grey RAL 7016
- IPXXB protection with tooth-caps
- may be cut to length.

Choice of comb busbars

comb busbars	cat. No.
for NG125	
1P	14811
2P	14812
3P	14813
4P	14814

The comb busbars are supplied with:

- 8 tooth-caps + 2 end-caps for 2P comb busbars
- 4 tooth-caps + 2 end-caps for 3P and 4P comb busbars.

Accessories	cat. No.
end-caps and tooth-caps	14818

comprising:

- 20 tooth-caps
- 4 end-caps for 2P and 3P comb busbars
- 4 end-caps for 4P comb busbars.

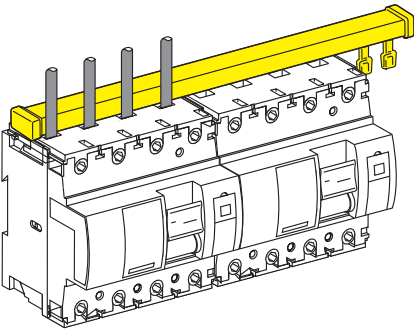
Electrical characteristics

- rated operating current: I_e (40 °C) = 125 A
- maximum rated current per outgoing circuit: 63 A
- rated insulation voltage: 690 V
- rated impulse withstand voltage: U_{imp} = 8 kV
- short-circuit withstand capacity compatible with the breaking capacities of Merlin Gerin modular circuit breakers.

Connection

Supply by cables with a maximum cross-section of 50 mm², directly in the tunnel terminals of the device.

To supply the comb busbar from a busbar set located at the rear of the enclosure, use the 100 A prefabricated connection system (see page 101).



Tooth-caps may be fitted to insulate unused teeth.

Comb busbar, for connecting 26 x 9 mm modules , consisting of two insulated bars to supply 1P + N devices (Declic, SFT, etc.).
Due to the small amount of space occupied by the comb busbars, the connection terminals on devices are easy to access.

Bar'clik



Supply

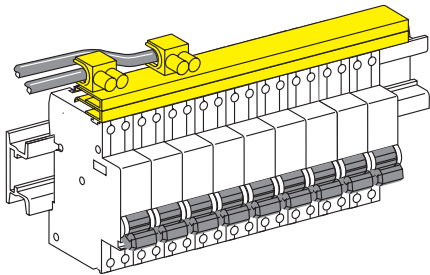
- by semi-rigid cable directly in the tunnel terminals of the device:
 - cross-section 16 for Declic
 - cross-section 10 for SFT
- by semi-rigid cable via connector **14875**:
 - cross-section 35
 - cross-section 16 + 6
 - cross-section 10 + 10.

Electrical characteristics:

- rated operating current: Ie (40 °C):
 - 63 A with 1 central supply point
 - 90 A with 2 supply points
- rated insulation voltage: 250 V
- short-circuit withstand capacity: compatible with the breaking capacities of Merlin Gerin modular circuit breakers (1P + N).

Choice of accessories

comb busbars	cat. No.
Bar'clik	14876
4 connectors for 35 mm ² cables	14875



On mounting plates



The solution for installing and connecting a large number of terminal blocks in a minimum amount of space. Particularly useful when a duct is not required or cannot be installed.

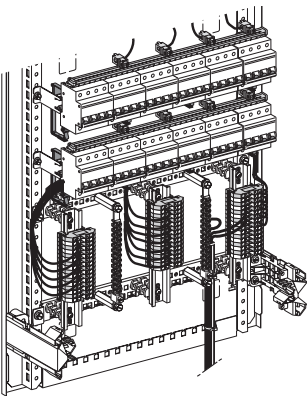
- a mounting plate, secured to the chassis at the top or the bottom of the switchboard, is equipped with four symmetrical rails L = 250 mm. The rails are installed vertically, thus allowing free cable running, without obstacles
- to combine terminals of different cross-sections and enable practical front and side connections, the distance between rails and their depth may be adjusted
- convenient cut-outs on the cross pieces make for easy securing of downstream cables, coming from outside the switchboard
- earth bars, sold separately, may be installed between the rows of terminal blocks for layouts such as:
 - 4 rows of terminal blocks
 - 3 rows of terminal blocks + 1 or 2 earth bars 250 mm.

The earth bars may be installed either directly on the cross pieces of the mounting plate, or on separately sold spacers.

- the assembly occupies 250 mm of vertical space, i.e. five 50 mm vertical modules.

Catalogue numbers

description	cat. No.
terminal block mounting plate	07558
2 earth bars with 20 clamps L = 250 mm (see page 83)	
spacers H = 25 mm for raising the E / N bar (see page 111)	

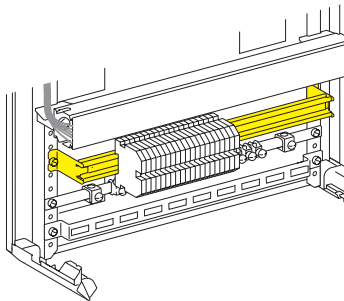


Vertical partition between switchgear zone and Prisma GX duct.

On Multifix rail



Optimum solution when a single row of terminal blocks is required. The rail may be installed at the top or the bottom of an enclosure or cubicle. See page 51.



In the duct



For installation of the terminal blocks in a dedicated zone, separated from the switchgear zone.

A symmetrical rail used for terminal block mounting and one or two E / N bars are installed vertically in the duct on two supports fixed to the uprights.

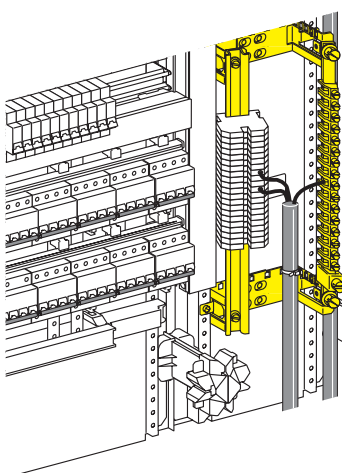
The fixing distance of the supports is adjustable for installation in the duct of a Prisma G enclosure, regardless of its width, and in the duct of a Prima GX cubicle.

What is more, convenient cut-outs on the cross pieces make for easy securing of the downstream cables coming from outside the switchboard.

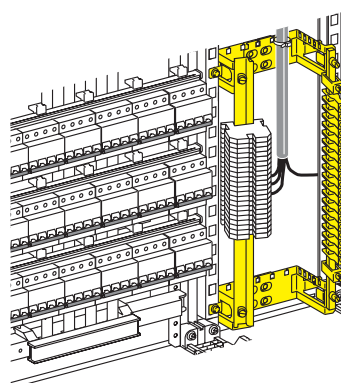
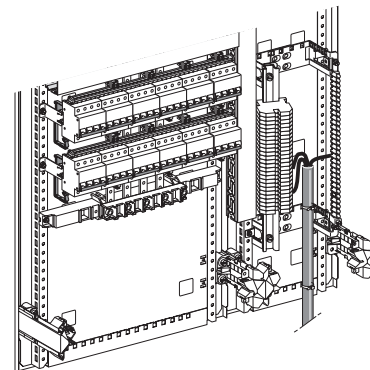
The assembly occupies a total height of 250 mm or 500 mm, depending on the earth bar used.

Catalogue numbers

description	cat. No.
2 supports for rail and bar earth bars:	07548
■ 20 clamps, distance between fixing holes 200 mm	
■ 40 clamps, distance between fixing holes 450 mm (see page 83)	
2 Multifix rails, L = 1750 mm	09850

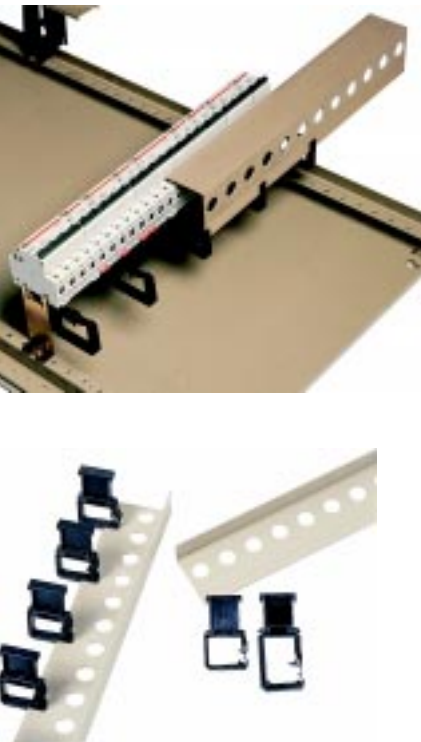


Connection via terminal blocks in the duct of a Prisma GX cubicle.



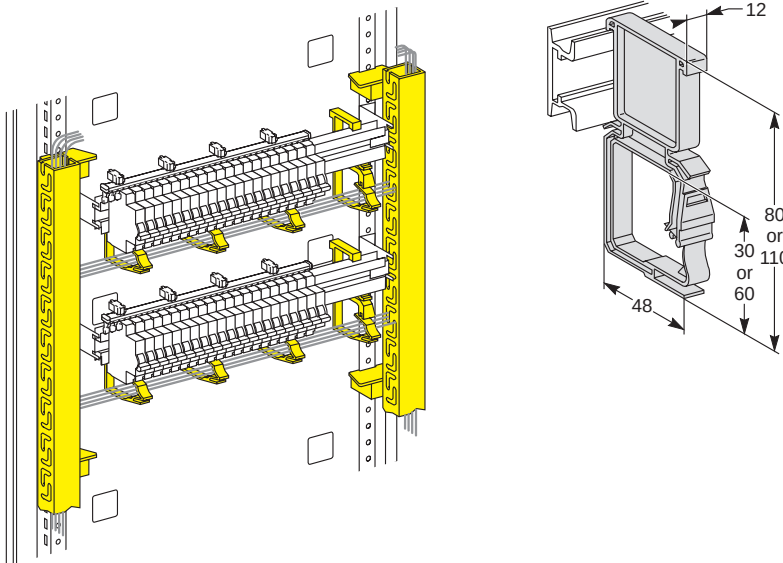
Connection via terminal blocks in the duct of a Prisma G enclosure.

Horizontal straps

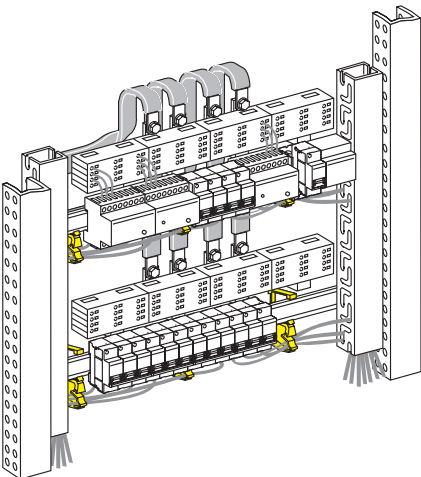


Horizontal cable straps may be clipped to the front or rear of Multifix rails. They do not obstruct the space required for installing switchgear (use one pack of five straps per modular row). Cable guides may be fixed between straps and a cable cover fits over the cable straps to protect cables and provide a neat finish.

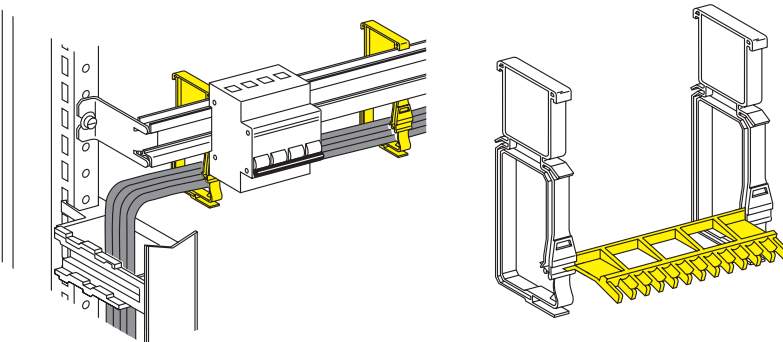
description		cat.
No.		
5 horizontal cable straps	30 x 48	07300
	60 x 48	07301
horizontal cable cover	H = 30	07332
L = 1000 mm	H = 60	07333
4 cable guides (only for straps H = 60)		07302



Horizontal straps in a Prisma G enclosure.



Horizontal straps in a Prisma P cubicle



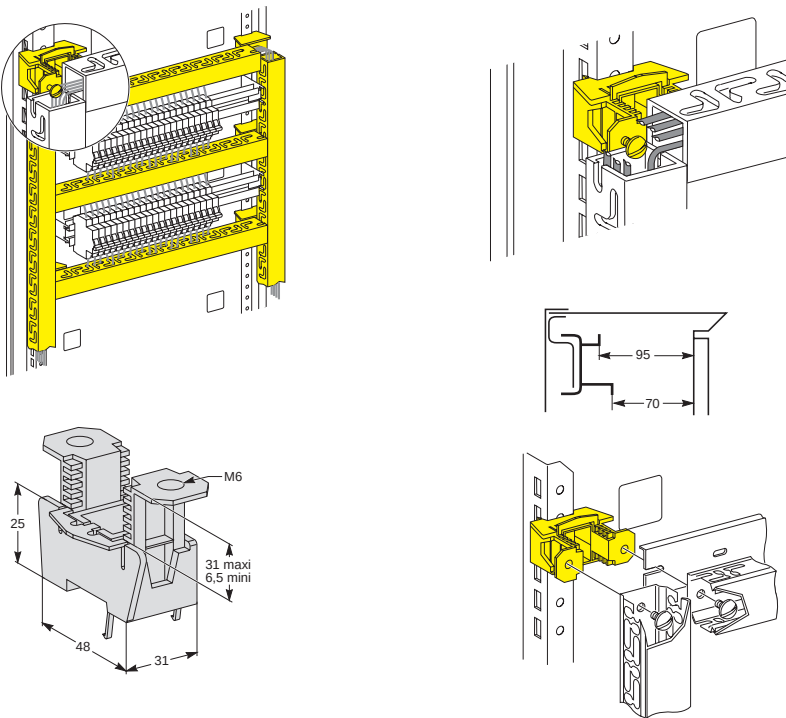
07302

Trunking supports



A support, clipped on to the functional upright of an enclosure or a cubicle, can accommodate vertical trunking (widths up to 40 mm) and horizontal trunking, of different depths. Trunking is mounted on two brackets that may be depth adjusted to ensure front alignment.
For widths up to 30 mm, horizontal trunking takes up no extra space.
The support can also clip on to the uprights in the Prisma GX duct for installation of much larger trunking for a greater number of cables.

description	cat. No.
10 trunking supports	07320

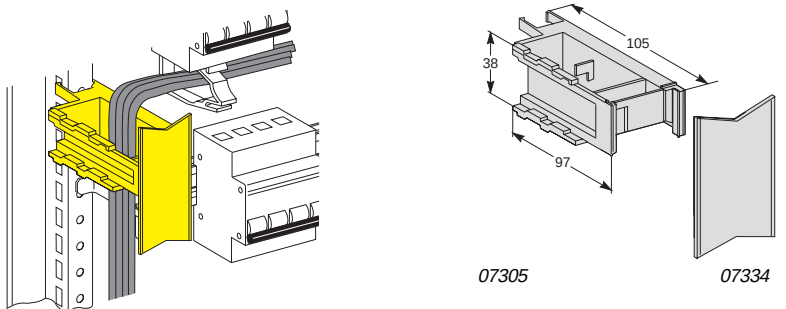


Vertical straps



Vertical cable straps may either be clipped to the fixing lug of a Multifix rail (Prisma G, P) or directly to the functional uprights of enclosures or cubicles (Prisma G).
A cable cover fits over the cable straps to protect cables and provide a neat finish.

description	cat. No.
10 vertical cable straps	07305
vertical cable cover, L = 1000 mm	07334



Vertical straps in a Prisma G enclosure.

Cable tie bars

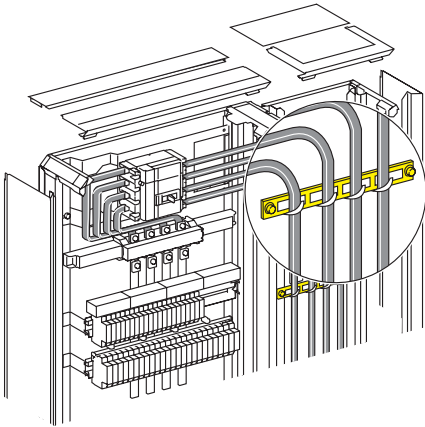


07328



07326

description	cat. No.
cable tie bars	
2 cable tie bars for enclosures and cubicles (G, GX, GK)	07326
4 cable tie bars for ducts (G, GX, GK)	07328



Cable tie bar in Prisma GX duct.

Symmetrical rails

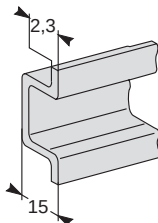


description

symmetrical rail L = 2000 mm, reinforced rail (th = 2.3, D = 15)

cat. No.

06603



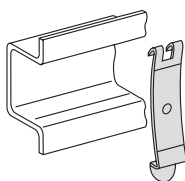
06603

clip-on nuts for symmetrical rail

20 clip-on nuts Ø 4

cat. No.

14914



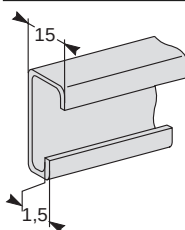
Asymmetrical rails

description

asymmetrical rail L = 2000, reinforced rail (th = 1.5, D = 15)

cat. No.

06602



C section

description

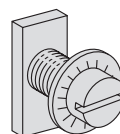
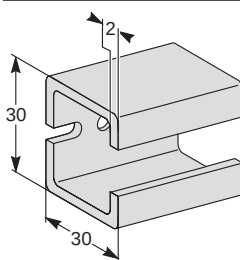
C section L = 2000 2 slotted C sections Ø 7 at 20 mm centres, L = 1710

cat. No.

09855

20 M6 x 16 bolts + nuts for C sections

09918



Stops



description

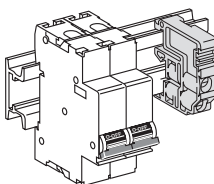
10 lateral stops for Multifix, symmetrical and asymmetrical rails

cat. No.

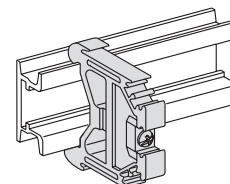
14915

1 stop for Multifix or symmetrical rail

07180



14915



07180

Drawing holder



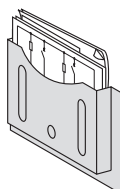
description

rigid adhesive drawing holder
H = 215, W = 215, D = 20, colour: RAL7032
5 flexible drawing holders

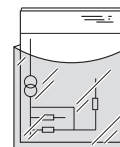
cat. No.

06617

05207



06617



05207

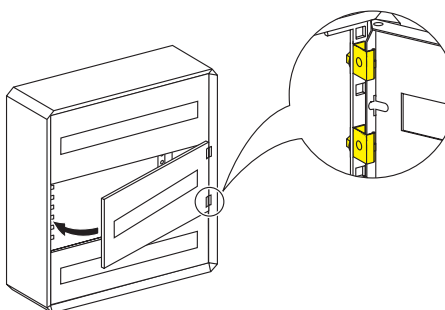
Hinges for front plate

description

4 hinges for front plate

cat. No.

09053



Spare mounting hardware

description

spare nuts and bolts

cat. No.

07395

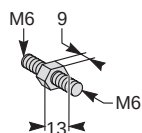
Composition

- 4 mounting plate fixing screws
- 4 front plate fixing screws
- 1 fixing screw for corner pillar
- 2 pillar inserts
- 2 clip-on nuts for fixing mounting plates and ducts
- door earthing fixture.

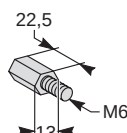
Raising of rails



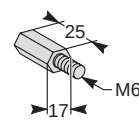
raising of rails or chassis using stackable spacers	cat. No.
1 spacer D = 9	05209
1 spacer D = 22.5	05223
4 spacers D = 25	02407
4 spacers D = 40 + 10	05224
1 spacer D = 55	05056
2 support for Multifix inclined at 45°	07552



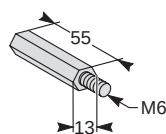
05209



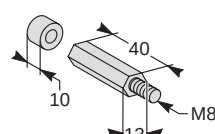
05223



02407



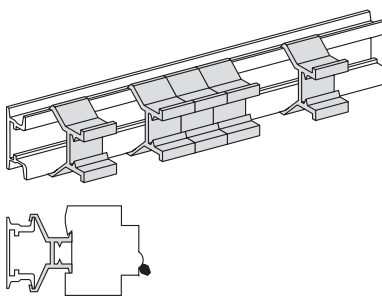
05056



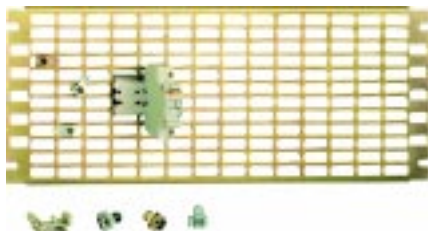
05224



raiser for Multifix rail or symmetrical rail	cat. No.
10 raisers D = 15, W = 18 mm	14860



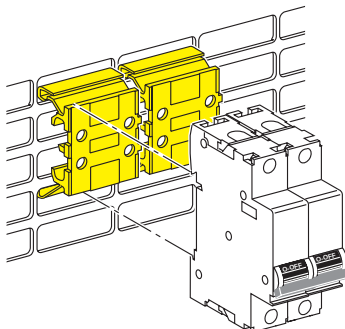
Pratic



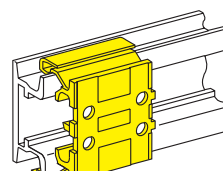
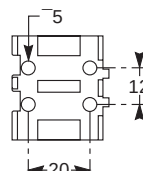
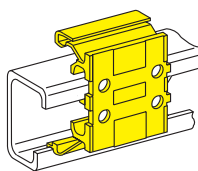
Pratic adapters

Clipped on slotted plates, Multifix rails, symmetrical and asymmetrical rails. Accommodates terminal strips, terminal blocks, terminals, modular devices, etc. Also accommodates Prisma cable straps and may be used as a raiser D = 10, W = 27 mm.

description	cat. No.
5 Pratic adapters	06619



06619



Labels

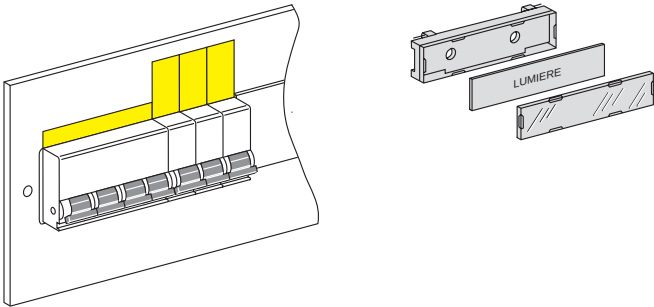


Label holder

for modular devices		cat. No.
12 label holders	18 x 35	07351
12 engraving plates	18 x 35	07352
12 label holders	18 x 72	07353
12 engraving plates	18 x 72	07354

for Compact circuit breaker and other units		cat. No.
12 label holders	25 x 85	07355
12 engraving plates	25 x 85	07356
Prisma beige adhesive label holder		07360
10 self-adhesive label holders L = 430 mm		

Prisma beige label holder:
■ clip-on support + paper labels + transparent cover
■ horizontal or vertical mounting with clips or screws.
Also takes Dymo type strips, H = 12 mm.
Option: engraving plate.



Adhesive labels

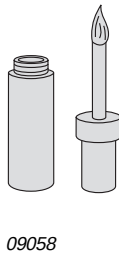
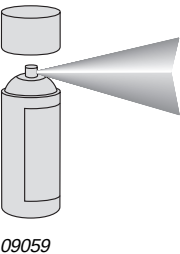
label	white	black	red
10 strips 900 mm (L = 7 mm)	03511	03521	03531
10 outgoing arrows	03512	03522	03532
10 incoming arrows	03513	03523	03533
5 transformers	03514	03524	03534
5 earths	03515	03525	03535

Note:
Range of temperature for adhesive -25 °C to +70 °C (has undergone tests according to standard HN63 S60 damp heat tests without unsticking of labels occurring or any traces of oxidation being noted).

Spray paint



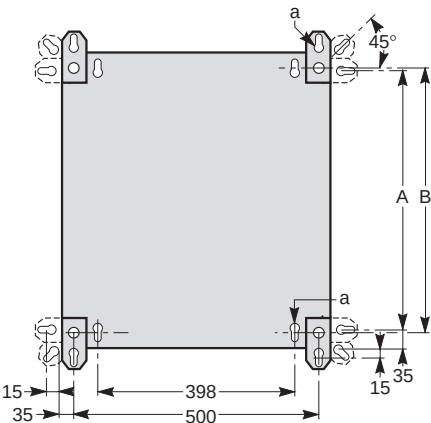
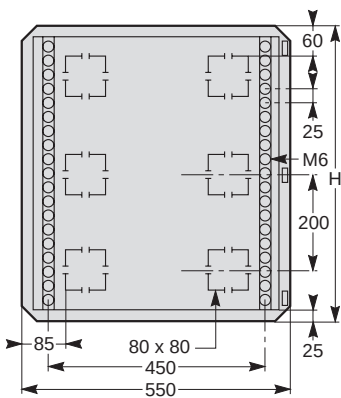
description		cat. No.
spray paint	Prisma beige	09059
touch-up brush	Prisma beige	09058



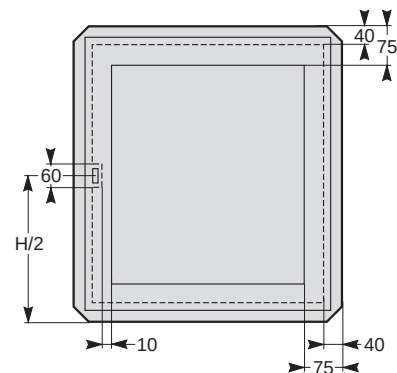
Dimensions

Dimensions	
Prisma G	114
Prisma GX	116
Prisma GK	117

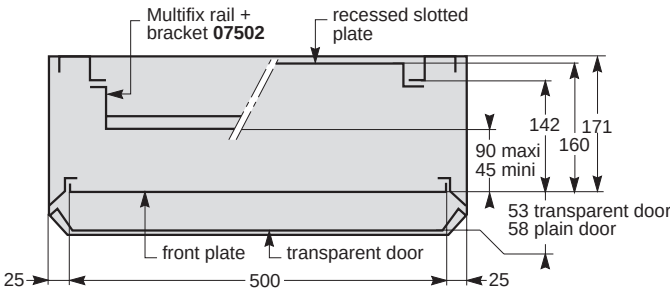
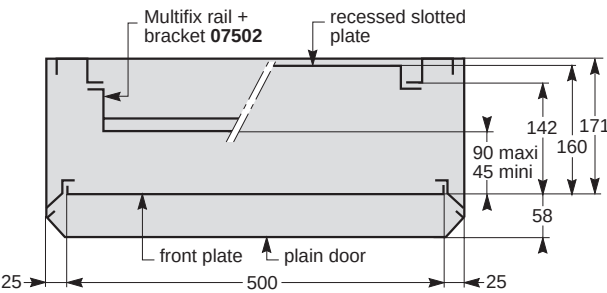
Enclosure



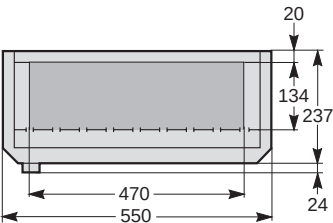
Plain or transparent door



Effective depth

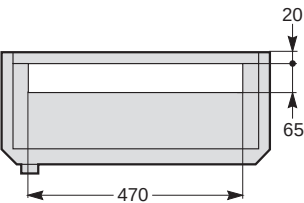


Cable entry

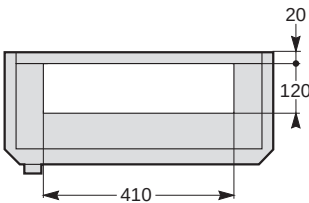


enclosure	height H	approx. weight (kg)	fixing centres A	B
09001	200	4	150	170
09002	400	5,8	350	370
09003	600	7,6	550	570
09004	800	9,4	750	770
09005	1000	10	950	970
09006	1200	13	1150	1170

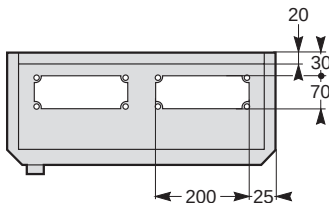
Gland plate



09055

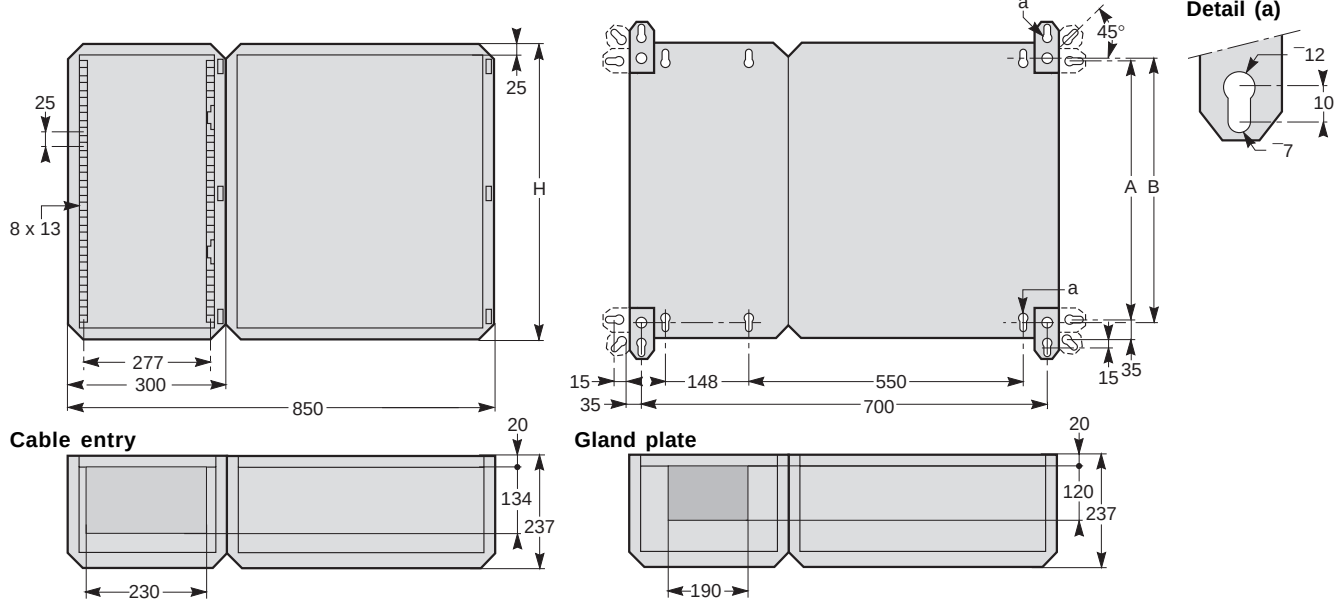


09056

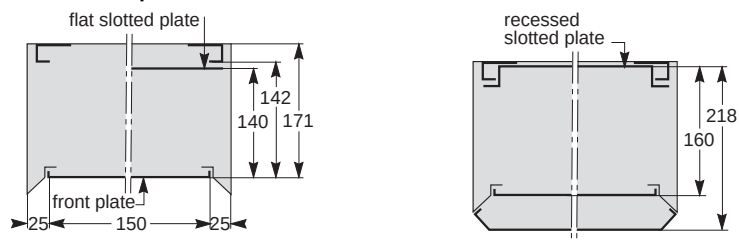


09068

300 mm duct

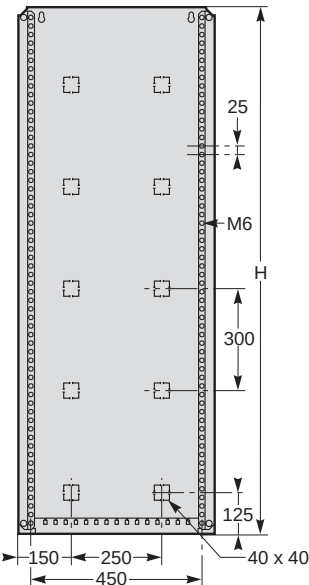


Effective depth

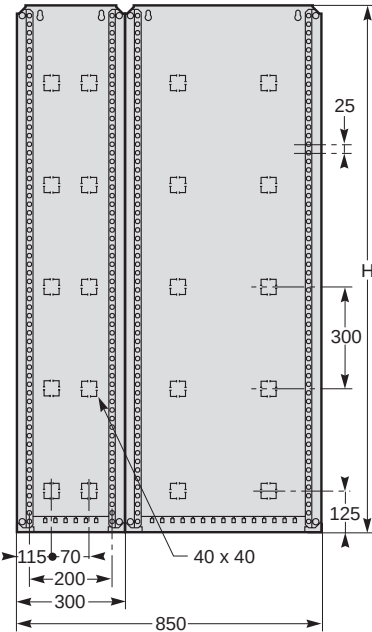


duct	height	fixing centres	
	H	A	B
09082	400	350	370
09083	600	550	570
09084	800	750	770
09085	1000	950	970
09086	1200	1150	1170

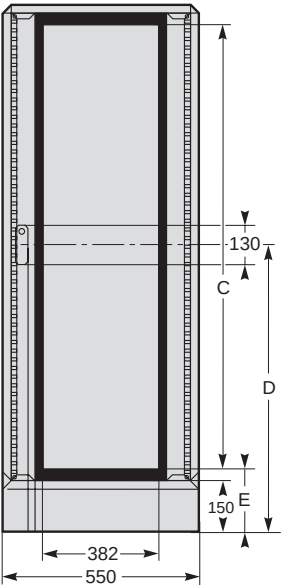
Back of cubicle



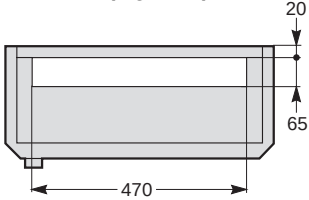
Back of duct



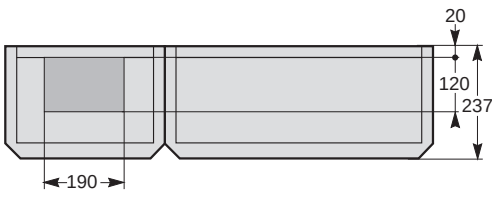
Doors



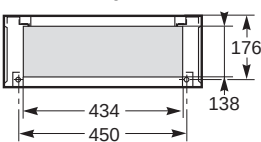
Cubicle top gland plate



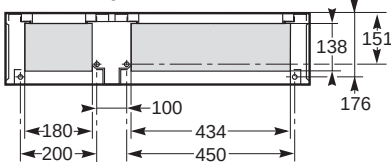
Duct top gland plate



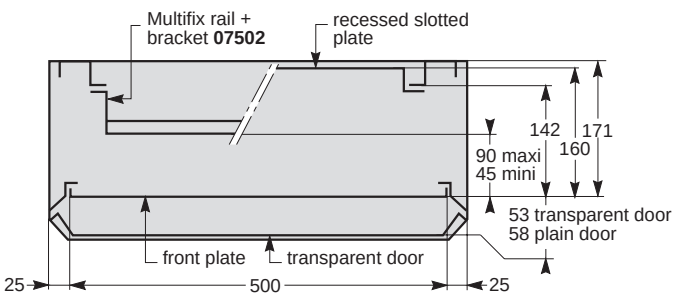
Floor fixing, cubicle bottom cable entry



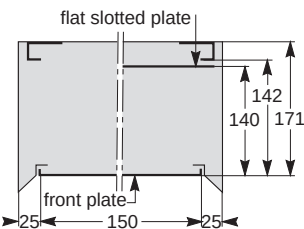
Floor fixing, duct bottom cable entry



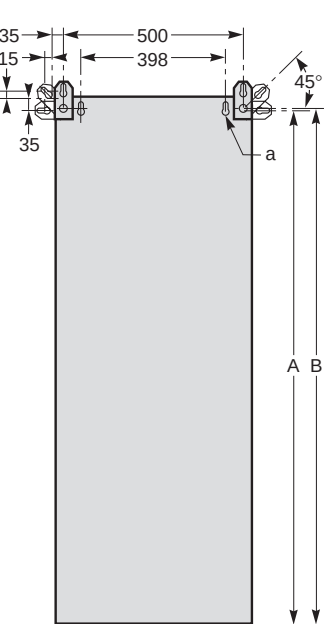
Effective depth of cubicle



Effective depth of duct



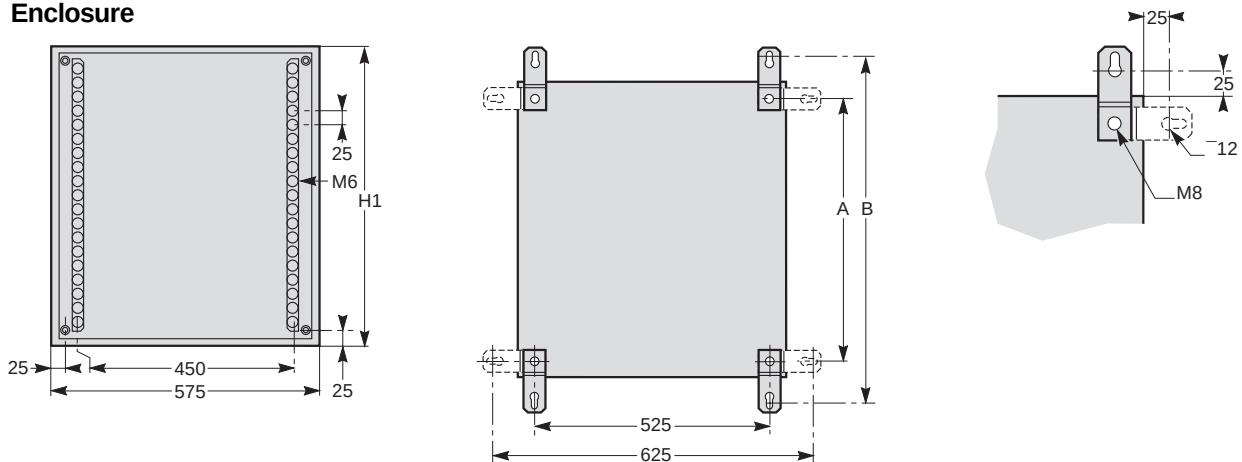
Wall fixing



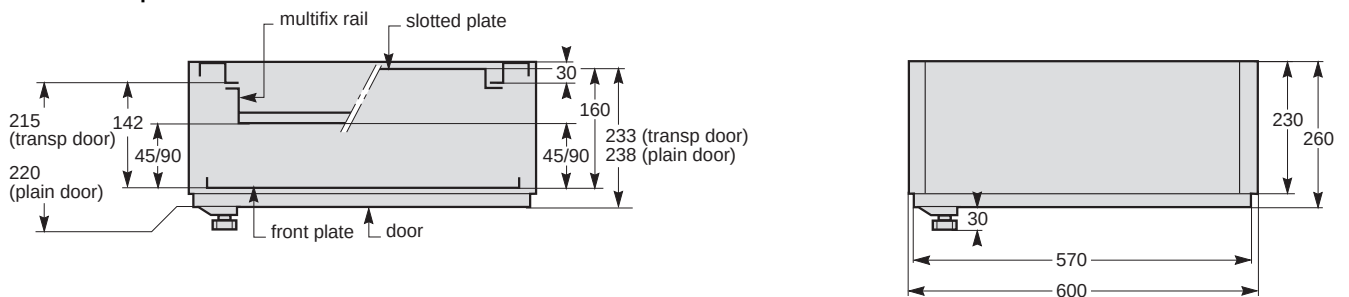
number of modules	H	A	B	C	D	E
27	1550	1525	1535	1283	850	153
33	1850	1825	1835	1571	1000	215

Prisma GK

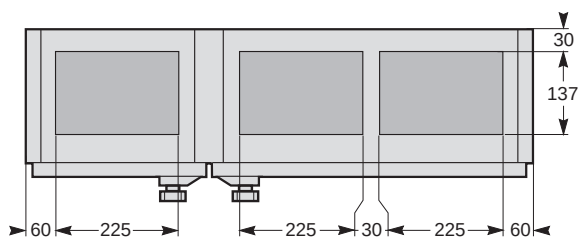
Enclosure



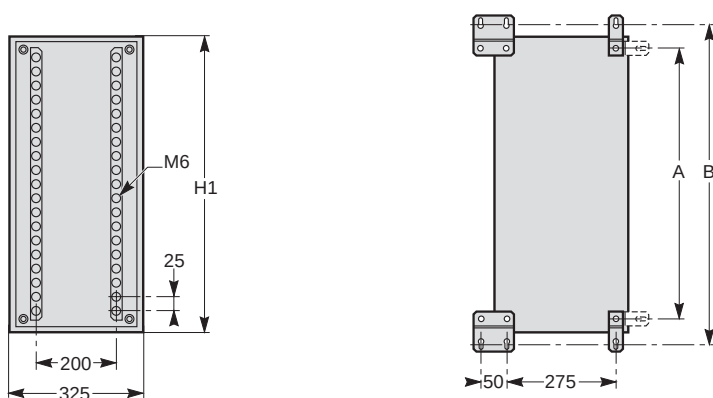
Effective depth



Gland plate

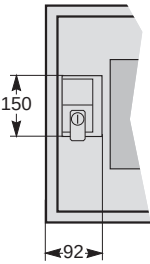
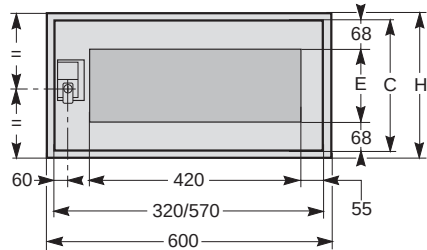


Duct

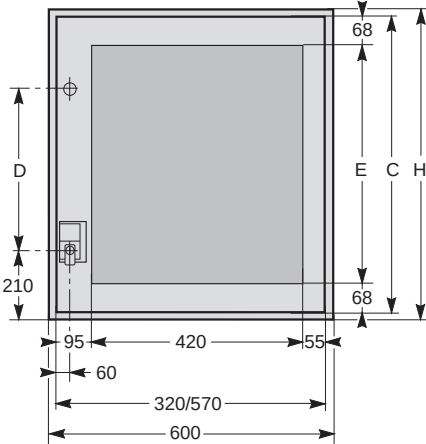


Nbr of modules	H1	A	B
7	425	375	475
11	625	575	675
15	825	775	875
19	1025	975	1075
23	1225	1175	1275
27	1425	1375	1475
33	1725	1675	1775

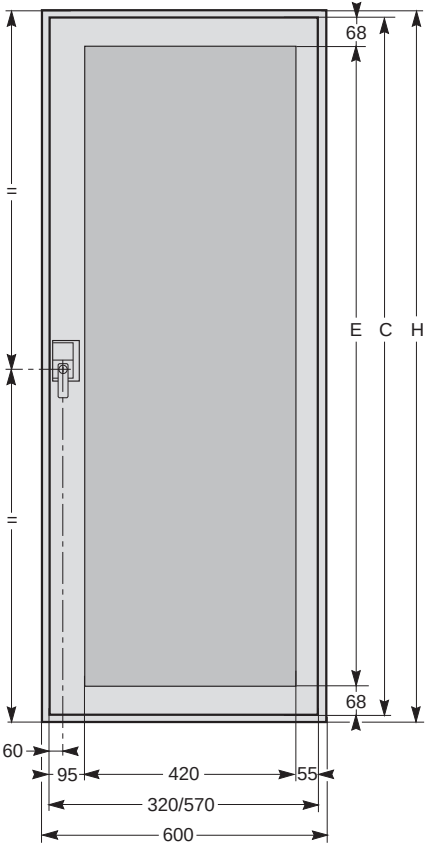
Door



7 modules

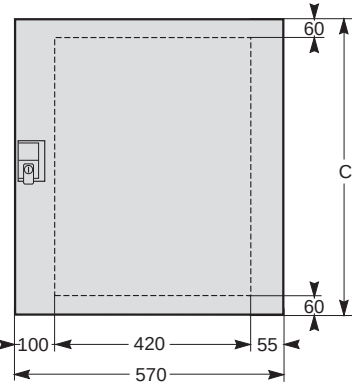


11 to 23 modules



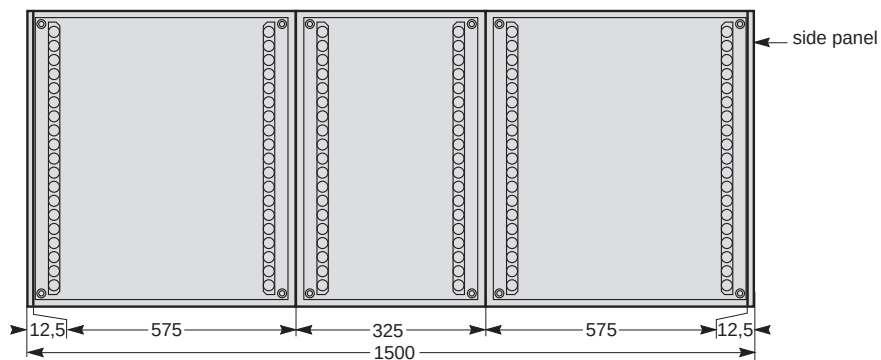
27/33 modules

Effective surface area

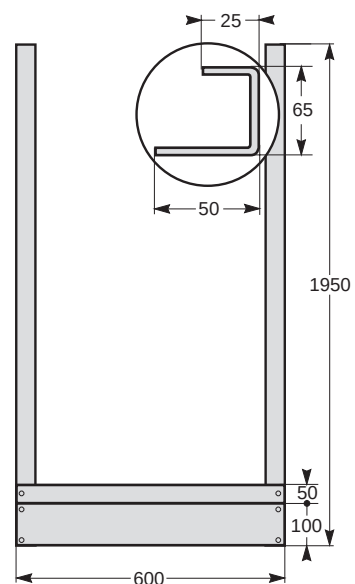
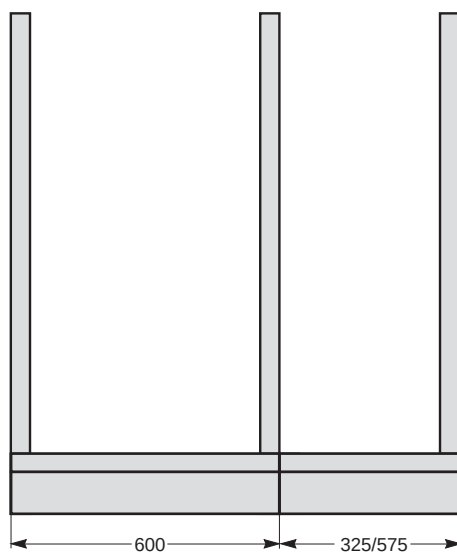
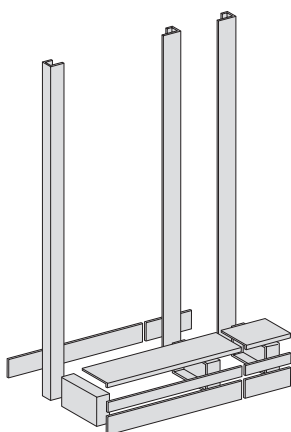


Nbr of modules	C	D	E	H
7	420		284	450
11	620	200	484	650
15	820	400	684	850
19	1020	600	884	1050
23	1220	800	1084	1250
27	1420		1284	1450
33	1720		1584	1750

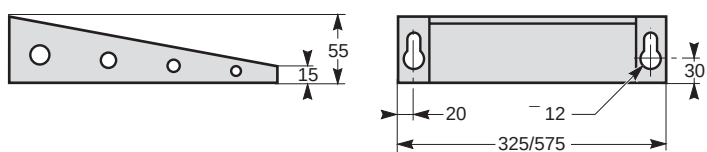
Combinations



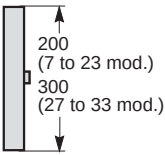
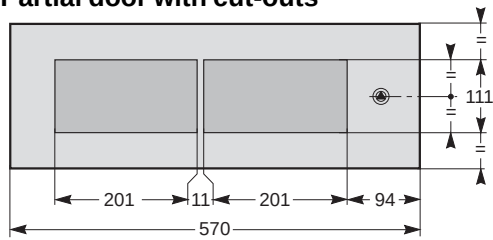
Wall structure



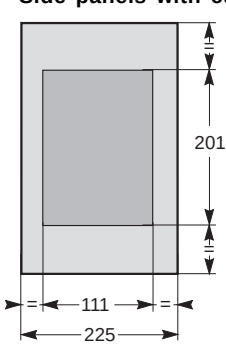
Canopy



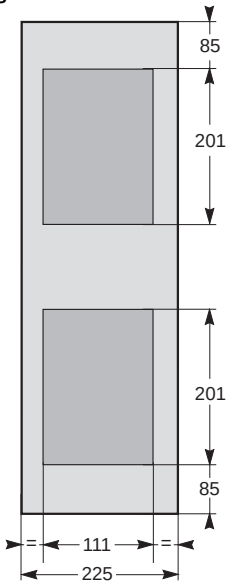
Partial door with cut-outs



Side panels with cut-outs

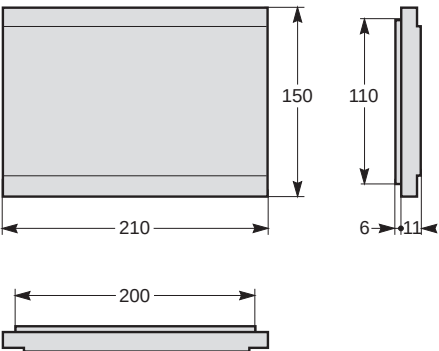


7 modules

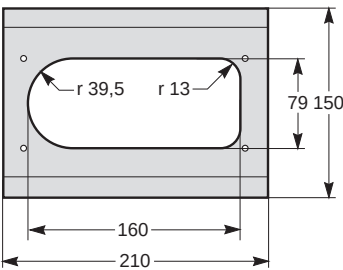


11 to 33 modules

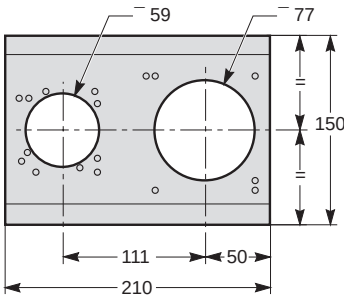
Functional mounting plate



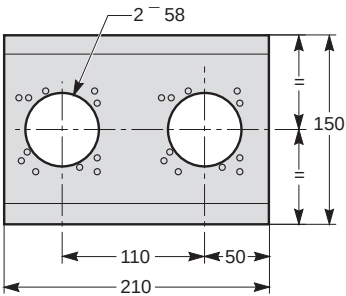
07341



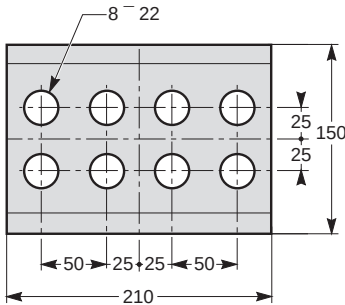
07345



07344



07343



07342

Characteristics/Performances

Characteristics/Performance

Degree of protection	122
Selection of enclosures according to the premises	123
Properties of metal enclosures	130
Thermal management of switchboards	131

Standard CEI 60364-3 has listed and coded a large number of external influences to which an electrical installation may be subjected: presence of water, presence of solid bodies, risk of impacts, vibrations, presence of corrosive substances. These influences will probably be exerted with an intensity varying according to installation conditions: the presence of water may be simply a few drops falling...or complete immersion.

Degree of protection IP code

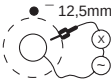
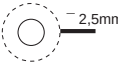
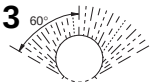
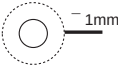
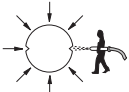
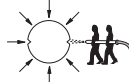
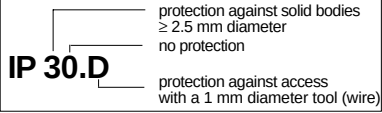
International standard CEI 60529 (2nd edition 1989-11), European standard EN 60529 (October 1992), French standard NF C 20-010 (1st edition October 1986) and German standards DIN 40050 (July 1980) and DIN-VDE 0470 (part 1) all define in a similar manner an IP code to indicate the degree of protection provided by an electrical enclosure against access to hazardous parts and against the penetration of solid bodies or liquids.

These standards do not cover protection against explosion hazards or conditions such as humidity, corrosive vapours, mould or vermin.

The IP code is made up of 2 digits to which a letter may be added when the actual protection against access to hazardous parts is better than that indicated by the first digit.

The first digit characterises protection provided by the enclosure against penetration by solid bodies.

The second digit characterises protection against the ingress of liquids with harmful effects.

1st digit Protection against solid bodies	2nd digit Protection against liquids
1  protection against solid bodies ≥ 50 mm diam.	1  protection against vertical dripping (condensation)
2  protection against solid bodies ≥ 12.5 mm diam.	2  protection against dripping at an angle of up to 15° with respect to vertical
3  protection against solid bodies ≥ 2.5 mm diam.	3  protection against water sprayed at an angle up to 60° with respect to vertical
4  protection against solid bodies ≥ 1 mm diam.	4  protection against splashing from all directions
5  dust-protected (no harmful deposit)	5  protection against water jets projected from any direction
6  dust-tight (total protection against dust)	6  protection against powerful water jets projected from any direction
Example 	7  protection against temporary immersion
	8  protection against continuous immersion

Selection of enclosures according to the premises

Remarks on degree of protection IP code

- the degree of protection IP must always be read and understood digit by digit and not as a whole.
For example, an IP31 enclosure is suitable for an environment requiring a minimum degree of protection IP21. However, an IP30 enclosure is not suitable.
- the degrees of protection indicated in this catalogue are valid for the enclosures as they are presented. However, for this degree of protection to be maintained, devices must be mounted and the installation must be implemented in accordance with standard working practices.

Additional letter (optional)

Protection of persons against access to hazardous parts.

letter	description
A	protection against access with the back of the hand
B	protection against access with a finger
C	protection against access with a 2.5 mm diam. tool
D	protection against access with a 1 mm diam. tool (wire)

It is used only if effective protection of persons is greater than that indicated by the 1st letter of the IP.

When only protection of persons needs to be specified, the two characteristic letters of the IP are replaced with X.

Example: IPXXB.

Degree of protection against mechanical impact: IK code

Draft European standard EN50102 now defines an IK code for this purpose. The following table indicates the equivalencies between the 3rd digit of the French IP code of NF C 20-010 (1986) standard and the IK code.

impact energy (Joules)	3rd digit (old description)	IK code as defined by EN 50-102 (new description)
0.00	0	00
0.15		01
0.2	1	02
0.35		03
0.375	2	
0.5	3	04
0.7		05
1		06
2	5	07
5		08
6	7	
10		09
20	9	10

Selection of enclosures according to the premises

How to use the table

1 Opposite the relevant premises, read the minimum degree of protection required by standard CEI 60364-3.

2 On the same line, the □ and ■ signs indicate the enclosures providing the required degree of protection.

3 If several degrees of protection are possible (refer to the standard for more details) and the □ and ■ signs are shown (for example, 24□/25■), the enclosures that correspond to the higher degree of protection (■) are suitable for the lower degree of protection (□).

Example: selection of an enclosure for a battery room. Minimum degree of protection in accordance with standard CEI 60364-3 as stipulated in the tables below: IP23. The Prisma G enclosure with a door (plain or transparent) and canopy + gasket kit provides an IP43 degree of protection and is therefore perfectly suitable for this application.

Remarks

The degree of protection only takes into account protection against penetration by solid bodies and water.

In the case of specific risks, the IP rating is not sufficient in itself and you must consult the relevant standard (e.g. CEI 60364-3).

For the first figure (protection against solid bodies) the value "2" has been selected as a minimum, in such a way as to take into account protection against direct contacts.

As per standard CEI 60364-3

As per standard CEI 60364-3			enclosures and cubicles								
			Prisma P cubicle (with front plate support frame or door)	Prisma G enclosure (with front plates) Prisma GX cubicle	Prisma P cubicle (with front plate support uprights + door) Prisma P cubicle (with plain or transparent door)	Prisma G enclosure (with plain or transparent door) Prisma GX cubicle	Prisma G enclosure (with plain or transparent door and canopy + gasket kit) Prisma GX cubicle	Prisma P cubicle (with plain or transparent door + gland plate + gasket kit) UT enclosure	Prisma GE and GK enclosure Prisma GR and PH cubicles	US enclosures	UP enclosures
mini required degree of protection IP			20	30	30	40	43	54	55	65	55
mini required degree of protection IK			08	07	08	08	08	08	10	10	10
domestic or comparable premises or locations			IP	IK							
bathrooms (see washrooms)											
laundries			23	02			■	■	■	■	■
cellars			21	02-4/07■			■	■	■	■	■
bedrooms			20	02	■	■	■	■	■	■	■
courtyards			24-4/25■	02				□	■	■	■
kitchens			21	02			■	■	■	■	■
shower rooms (see washrooms)											
showers (row of)			25	02					■	■	■
attics (roof space)			20	02	■	■	■	■	■	■	■
gardens			24-4/25■	02				□	■	■	■
latrines			21	02			■	■	■	■	■
dustbin sheds			25	02-4/07■					■	■	■
ironing rooms			21	02			■	■	■	■	■
washrooms	safety envelope volume	27	02	consult us							
	protection volume	23	02					■	■	■	■
	other locations	21	02					■	■	■	■
lounges, living rooms, etc.			20	02	■	■	■	■	■	■	■
drying rooms			21	02					■	■	■
basements			21	02-4/07■					■	■	■
WCs			21	02				■	■	■	■
verandas			21	02				■	■	■	■
crawl space			23	02-4/07■				■	■	■	■
technical premises											
battery rooms			23	02-4/07■				■	■	■	■
cold storage rooms			33	02-4/07■				■	■	■	■
electrical rooms			20	07	■	■	■	■	■	■	■
control rooms			20	04	■	■	■	■	■	■	■
workshops			21	07-4/08■							
			23	07-4/08■				■	■	■	■
laboratories			21	02-4/07■							
			31	02-4/07■				■	■	■	■
machine rooms			31	07-4/08■				■	■	■	■
air conditioning washers			24	07				■	■	■	■
garages (used exclusively for parking vehicles) of an area not exceeding 100 m²			21	07				■	■	■	■
water pressurisers			23	07-4/08■				■	■	■	■

As per standard CEI 60364-3				enclosures and cubicles								
				Prisma P cubicle (with front plate support frame or door)	Prisma G enclosure (with front plates) Prisma GX cubicle	Prisma P cubicle (with front plate support uprights + door) Prisma P cubicle (with plain or transparent door)	Prisma G enclosure (with plain or transparent door) Prisma GX cubicle	Prisma G enclosure (with plain or transparent door and canopy + gasket kit) Prisma GX cubicle	Prisma P cubicle (with plain or transparent door + gland plate + gasket kit) UT enclosure	Prisma GE and GK enclosure Prisma GR and PH cubicles	US enclosures	UP enclosures
mini required degree of protection IP				20	30	30	40	43	54	55	65	55
mini required degree of protection IK				08	07	08	08	08	08	10	10	10
boiler houses and adjoining premises (power in excess of 70 kW)												
boiler rooms	coal fuel	IP	IK									
	other fuel	51-/61■	07-/08■					■	■	■	■	■
	electrical	21	07-/08■					■	■	■	■	■
fuel storage areas	coal	50-/60	08						■	■	■	■
	oil	20	07-/08■	■	□	■	■	■	■	■	■	■
	liquefied gas	20	07-/08■	■	□	■	■	■	■	■	■	■
slag tips		50-/60■	08					□	□	■		
pump rooms		23	07-/08■					■	■	■	■	■
pressure reduction rooms (gas)		20	07-/08■	■	□	■	■	■	■	■	■	■
expansion vessel rooms		21	02					■	■	■		
garages and car parks of an area exceeding 100 m²												
parking lots		21	07-/08■					□	□	□	■	■
carwash areas (inside premises)		25	07							■	■	■
safety areas	indoors	21	07					■	■	■	■	■
	outdoors	24	07							■	■	■
lubrication areas		23	08					■	■	■	■	■
battery recharging areas	traction batteries	23	07					■	■	■	■	■
	other	23	07					■	■	■	■	■
workshops		21	08					■	■	■		■
sanitary facilities for communal usage												
rooms containing individual washbasins		21	07					■	■	■	■	■
WCs		21	07					■	■	■	■	■
rooms containing urinals		21	07					■	■	■	■	■
rooms containing communal washbasins		23	07					■	■	■	■	■
WCs (squat closet)		23	07					■	■	■	■	■
shower rooms with individual cabins		23	07					■	■	■	■	■
communal shower rooms		25	07							■	■	■
communal laundry rooms		24	07						■	■	■	■
buildings for communal usage												
offices		20	02	■	■	■	■	■	■	■	■	■
libraries		20	02	■	■	■	■	■	■	■	■	■
archives		20	02	■	■	■	■	■	■	■	■	■
rooms containing punch-card machines, statistics and accounting equipment		20	07	■	■	■	■	■	■	■	■	■
design offices		20	02	■	■	■	■	■	■	■	■	■
rooms containing reprographic machines		20	07	■	■	■	■	■	■	■	■	■
rooms containing the main telephone switchboard for an office building		20	07	■	■	■	■	■	■	■	■	■
rooms containing counters, sorting office		20	07	■	■	■	■	■	■	■	■	■
teaching establishments, excluding laboratories		20-/21■	07	□	□	□	□	■	■	■	■	■
refectories in restaurants or canteens		21	07					■	■	■	■	■
large kitchens		35	07							■	■	■
communal bedrooms or dormitories		20	07	■	■	■	■	■	■	■	■	■
sports rooms		21	07-/08■					■	■	■	■	■
leisure or vacation centres		21	07					■	■	■		■
barracks		21	07					■	■	■	■	■
meeting rooms		20	07	■	■	■	■	■	■	■	■	■
waiting rooms, lounges, halls		20	07	■	■	■	■	■	■	■	■	■
medical consulting rooms, not fitted with specific equipment		20	02-/07■	■	■	■	■	■	■	■	■	■
demonstration or exhibition rooms		20	07	■	■	■	■	■	■	■	■	■

As per standard CEI 60364-3

			enclosures and cubicles							
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mini required degree of protection IP			20	30	30	40	43	54	55	65
mini required degree of protection IK			08	07	08	08	08	08	10	10
farm premises										
or locations										
	IP	IK								
alcohol (storage)	23	07					■	■	■	■
closed cattle sheds	35	07							■	■
threshing floors	50-/60■	07						□	□	■
distilling cellars	23	07					■	■	■	■
vat rooms (wine)	23	07					■	■	■	■
courtyards	35	07							■	■
troughs	23	07					■	■	■	■
stables	45	07							■	■
fertiliser (storage)	50-/60■	07						□	□	■
stables	45	07							■	■
manure heaps	24	07						■	■	■
haystacks, forage (storage)	50-/60■	07						□	□	■
granaries, barns	50-/60■	07						□	□	■
greenhouses	23	07					■	■	■	■
milking rooms	35	07							■	■
pig sties	35	07							■	■
chicken houses	45	07							■	■
miscellaneous installations										
camping and caravan sites	34	07							■	■
construction sites	44	08							■	■
streets, courtyards, gardens and other outdoor facilities	34/35■	07							■	■
fair facilities	33	08					■		■	■
swimming pools	pools	37	02	consult us						
	protection volume	35	02						■	■
	corridors and barefoot areas	35	02						■	■
saunas	34	02							■	■
industrial facilities										
slaughter houses	55-/65■	08							□	■
acid (manufacture and storage)	33	07					■	■	■	■
alcohol (manufacture and storage)	33	07					■	■	■	■
aluminium (manufacture and storage)	51-/53□ 61■/63■	08						□	□	■
livestock (raising, fattening and sale)	45	07							■	■
industrial laundry	23-/24■	07					□	■	■	■
wood (processing)	50-/60■	08						□	□	■
butcher's shops	24-/25■	07					□	■	■	■
bakeries	50-/60■	07						□	□	■
breweries	24	07						■	■	■
brickworks	53-/54□ 63■/64■	09					□	□	■	■
rubber (production and processing)	54-/64■	07						□	□	■
ammunition factories	53-/63■	08					□	□	■	■
carton board (production)	33	07					■	■	■	■
quarries	55-/65■	08							□	■
celluloid (manufacture of objects)	30	08			■	■	■	■	■	■
coal (depots)	53-/63■	08						□	□	■
boiler-making works	30	08			■	■	■	■	■	■
rag (storage)	30	08	■	■	■	■	■	■	■	■
chrome-plating	33	07						■	■	■

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mini required degree of protection IP			20	30	30	40	43	54	55	65
mini required degree of protection IK			08	07	08	08	08	08	10	10
industrial establishments (continued)			IP	IK						
cement works	50-60■	08						■	■	■
coking plant	53-63.7■	08						■	■	■
adhesives (production)	33	07					■	■	■	■
liquid fuels (storage)	31-33■	08					■	■	■	■
fats (processing)	51-61■	07						■	■	■
leather (tanning and storage)	31	08					■	■	■	■
paint stripping	54-64■	08						■	■	■
detergents (manufacture)	53-63■	07						■	■	■
distilleries	33	07					■	■	■	■
électrolysis	33	08					■	■	■	■
fertilisers (manufacture and storage)	53-63■	07						■	■	■
explosives (manufacture and storage)	55-65■	08							■	■
iron (production and processing)	51-61■	08						■	■	■
spinning mills	50-60■	07						■	■	■
refrigerators (storage)	33	07					■	■	■	■
cheese factories	25	07						■	■	■
printworks	20	07	■		■	■	■	■	■	■
dairies	25	07							■	■
public wash-houses	25	07							■	■
flammable liquids (storage and workshops where they are used)	21	08					■	■	■	■
machine rooms	20	08	■		■	■	■	■	■	■
plastics (production)	51-61■	08						■	■	■
metals (processing)	31-33■	08					■	■	■	■
combustion engines (testing of)	30	08			■	■	■	■	■	■
household waste (processing)	53-54- 63-64■	07						■	■	■
paper (production)	33-34■	07						■	■	■
paper (storage)	31	07					■	■	■	■
perfume (production and storage)	31	07					■	■	■	■
paint (production and storage)	33	08					■	■	■	■
plaster (processing and storage)	50-60■	07						■	■	■
pig farms	25	07							■	■
chemicals (production)	30-50-60■	08			□	□	□	■	■	■
oil refineries	34	07						■	■	■
cured meat factories	33	07					■	■	■	■
soap (production)	31	07					■	■	■	■
metal works	30	08			■	■	■	■	■	■
caustic soda (processing and storage)	33	07					■	■	■	■
sulphur (processing)	51-61■	07						■	■	■
spirits (storage)	33	07					■	■	■	■
sugar mills	55-65■	07							■	■
dye works	35	07							■	■
textile and fabric (production)	51-61■	08						■	■	■
glass works	33	08					■	■	■	■

As per standard CEI 60364-3

				enclosures and cubicles							
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mini required degree of protection IP				20	30	30	40	43	54	55	65
mini required degree of protection IK				08	07	08	08	08	08	10	10
buildings open to the general public											
L	lecture halls	halls	20	02-07■	■	■	■	■	■	■	■
	meeting rooms	stage areas	20	08	■	■	■	■	■	■	■
	auditoriums	projection facilities	20	02	■	■	■	■	■	■	■
	and halls	adjoining premises (dressing	20	08	■	■	■	■	■	■	■
	used for several	rooms, workshops,									
	purposes	store rooms)									
M	retail premises, shopping malls		20	08	■	■	■	■	■	■	■
	areas for storage, reception, packing,										
	display		20	08	■	■	■	■	■	■	■
N	restaurants and cafes		20	02	■	■	■	■	■	■	■
	large kitchens (see UTE 15-201)										
O	hotels and boarding houses		20	02	■	■	■	■	■	■	■
P	dance halls and gaming parlours		20	07	■	■	■	■	■	■	■
R	teaching establishments,		20	02	■	■	■	■	■	■	■
	holiday camps										
S	libraries and documentation centres		20	02	■	■	■	■	■	■	■
T	exhibitions	halls and rooms	20	07	■	■	■	■	■	■	■
	areas for storage,		20	08	■	■	■	■	■	■	■
	reception, packing,										
	workshops, garages										
U	healthcare establishments,		20	02	■	■	■	■	■	■	■
	operating theatres		20	07	■	■	■	■	■	■	■
V	places of worship,		20	02	■	■	■	■	■	■	■
	organ bellows,		20	02	■	■	■	■	■	■	■
	bell towers		23	02	■	■	■	■	■	■	■
W	administrative premises, banks		20	02	■	■	■	■	■	■	■
X	indoor sports facilities		21	07-08■	■	■	■	■	■	■	■
Y	museums		20	02	■	■	■	■	■	■	■
PA	open air facilities		25	08	■	■	■	■	■	■	■
CT	marquees and tents		44	08	■	■	■	■	■	■	■
SG	inflatable structures		44	08	■	■	■	■	■	■	■
PS	covered parking lots		21	07-10■	■	■	■	■	■	■	■
commercial premises and adjoining areas											
	gunsmiths (storage area, workshop)		31-33■	08	■	■	■	■	■	■	■
	laundries (wash room)		24	07	■	■	■	■	■	■	■
	butchers	shop	24	07	■	■	■	■	■	■	■
		refrigerator	23.5		■	■	■	■	■	■	■
	bakers, cake shops (kitchens)		50-60■	07	■	■	■	■	■	■	■
	coffee roasters		21	02	■	■	■	■	■	■	■
	coal, wood, oil		20	08	■	■	■	■	■	■	■
	delicatessen (production)		24	07	■	■	■	■	■	■	■
	sweets (production)		20	02	■	■	■	■	■	■	■
	shoe repair shops		20	02	■	■	■	■	■	■	■
	dairies		24	02	■	■	■	■	■	■	■
	hardware stores (storage areas for chemicals and paint)		33	07	■	■	■	■	■	■	■
	wood workers		50-60■	07	■	■	■	■	■	■	■
	art galleries		20	07	■	■	■	■	■	■	■
	florists		24	02	■	■	■	■	■	■	■
	furriers		20	02	■	■	■	■	■	■	■
	fruit and vegetable merchants		24	07	■	■	■	■	■	■	■
	grain shops		50-60■	07	■	■	■	■	■	■	■
	bookshops, stationers		20	02	■	■	■	■	■	■	■

				enclosures and cubicles							
				Prisma P cubicle (with front plate support frame or door)	Prisma G enclosure (with front plates) Prisma GX cubicle	Prisma P cubicle (with front plate support uprights + door) Prisma P cubicle (with plain or transparent door)	Prisma G enclosure (with plain or transparent door) Prisma GX cubicle	Prisma G enclosure (with plain or transparent door and canopy + gasket lip) Prisma GX cubicle	Prisma P cubicle (with plain or transparent door + gland plate + gasket lip) UT enclosure	Prisma GE and GK enclosure Prisma GR and PH cubicles UP enclosure	US enclosures
mini required degree of protection IP				20	30	30	40	43	54	55	65
mini required degree of protection IK				08	07	08	08	08	08	10	10
commercial premises and adjoining areas											
(continued)											
motorcycle and bicycle repairs and accessories	20	09		■		■	■	■	■	■	■
messenger services	20	09		■		■	■	■	■	■	■
furniture shops (antiques, second-hand)	20	07		■	■	■	■	■	■	■	■
glass and mirror merchants (workshop)	20	07		■	■	■	■	■	■	■	■
wallpaper shop (storage area)	21	07						■	■	■	■
cosmetics shop (storage area)	31	02						■	■	■	■
chemists (storage area)	20	02		■	■	■	■	■	■	■	■
photographers (dark room)	23	02						■	■	■	■
plumbers (storage area)	20	07		■	■	■	■	■	■	■	■
fishmongers	25	07								■	■
dry cleaners	23	02						■	■	■	■
hardware store (without paint, chemicals, etc.)	20	07		■	■	■	■	■	■	■	■
locksmiths	20	07-08	■	■	□	■	■	■	■	■	■
vintners, spirits (cellars and storage areas)	23	07						■	■	■	■
interior decorator (carding)	50-60	07	■						□	□	■
tailors, clothing retailers (storage area)	20	02		■	■	■	■	■	■	■	■
pet care	35	07								■	■

The sheet metal used for Merlin Gerin enclosures and cubicles receives a coating of a thermosetting, polyester-resin-modified epoxy powder.

This provides excellent finish and corrosion protection.

The characteristics of this coating are much better than those of traditional epoxy powders:

- improved colour stability
- wider operating temperature range.

Mechanical properties

test conditions:

**samples 0.8 mm thick sheet steel,
hot-cleaned and phosphatized**

adhesion (cross-hatch and pull-off)	class 0	(ISO 2409)
Erichsen indentation (1)	> 8 mm	(ISO 1520)
impact strength (2)	> 1 kg/40 cm	(ISO 6272)
mandrel bending test (3)	3 mm	(ISO 1519)
cone bending test (4)	< 15 mm	(ISO 6860)
Persoz hardness	300-320 sec.	(ISO 1522)

(1) No cracks for a stamping depth of 6 mm; no detachment for a stamping depth of 8 mm.

(2) No cracking of the paint film after dropping a weight of 1 kg on the test piece from a height of 40 cm.

(3) No detachment of paint after bending the test piece around a 5 mm diameter axis.

(4) Film cracks over a length of 15 mm maximum.

Chemical properties

Tests carried out at ambient temperature on phosphatized samples coated with a 150 to 200 µ film.

test duration (months)			2	4	6	8	10	12
acids	concentration							
		20 %						
	acetic	30 %						
	sulphuric	30 %						
	nitric	30 %						
	phosphoric	30 %						
	hydrochloric	30 %						
	lactic	10 %						
bases	citric	10 %						
	soda	10 %						
	ammonia	10 %						
water	distilled water							
	seawater							
	tap water							
	diluted bleach							
solvent	petrol							
	high alcohols							
	aliphatics							
	aromatics							
	ketones, esters							
	tri-perchloroethylene							

film intact

film damaged (blisters, yellowing, loss of shine)

Corrosion resistance

salt mist: ISO 7253

720 hours for enclosures made of 1 mm thick sheet metal, zinc-plated after phosphatizing:

- degree of rusting Ri0 (ISO 4628/3)
- blistering 0 (ISO 4628/2).

Thermal management of switchboards

General

A switchboard is designed for operation under normal ambient conditions. Most devices do not operate properly outside a temperature range of $-10\text{ }^{\circ}\text{C}$ and $+50\text{ }^{\circ}\text{C}$.

It is therefore important to maintain the internal switchboard temperature within this range by:

- correctly sizing the switchboard during design
- adjusting the temperature using appropriate means.

Ways of adjusting internal temperature

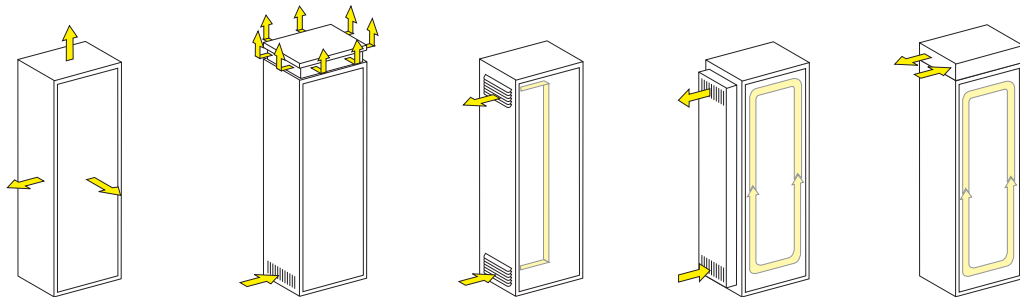
Cooling

There are a number of ways to dissipate heat from the switchboard. The table below lists the various means. The first two are by natural means available on Merlin Gerin enclosures, the third is frequently requested and the last two may be provided on special request.

Heating

The means used to raise the internal temperature in a switchboard is a resistor-based heater, used to:

- avoid condensation by limiting variations in temperature
- ensure that the switchboard does not freeze.



cooling means	natural convection	natural ventilation	forced-air ventilation	forced-air ventilation with exchanger	forced convection and cooling
P. max. dissipated 2000 x 800 x 400	400 W	700 W	2000 W	2000 W	2400 W
internal temperature	greater than the external temperature				regulated $+20$ to $+45\text{ }^{\circ}\text{C}$
external temperature	max. $40\text{ }^{\circ}\text{C}$	max. $40\text{ }^{\circ}\text{C}$	max. $40\text{ }^{\circ}\text{C}$	max. $40\text{ }^{\circ}\text{C}$	max. $55\text{ }^{\circ}\text{C}$
max. IP	IP 55	IP 20	IP 54	IP 55	IP 55

Calculating the internal switchboard temperature

The internal temperature is calculated to check that the thermal limits of devices are not overrun.

Method defined by IEC 890 report

This IEC guide contains a calculation method for cases where convection and natural ventilation are the means of cooling. Users should consult this report whenever undertaking the general design of a switchboard.

Rapid calculation charts (see next page)

These charts are based on the experience acquired by Schneider Electric. They may be used to determine, with a satisfactory degree of accuracy, temperature differences and heat losses depending on the type of cubicle or enclosure.

Note: when cubicles or enclosures are placed side by side, the power dissipated is reduced by 10%.

For the cubicles and enclosures not presented on the next page, the following equation may be used:

$$P = \Delta T \times S \times K$$

where:

P : power dissipated by the devices, connections and busbars (in Watts)

$$\Delta T = T_i - T_e$$

S : total free surface area of the enclosure (in square meters)

K : thermal-conduction coefficient of the material ($\text{W/m}^2\text{ }^{\circ}\text{C}$)

$K = 5.5\text{ W/m}^2\text{ }^{\circ}\text{C}$ for painted sheet metal

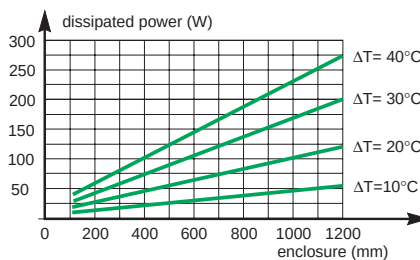
$K = 4\text{ W/m}^2\text{ }^{\circ}\text{C}$ for polyester

Note: the power dissipated by devices is indicated by the manufacturers. Add approximately 30% to account for the connections and the busbars.

Thermal management of switchboards General

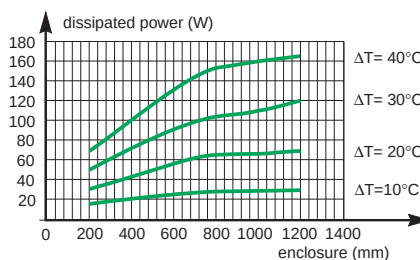
Rapid calculation charts for internal temperature: Prisma G / GX / GK

The internal temperature rises indicated are those taken at mid height of the enclosure.



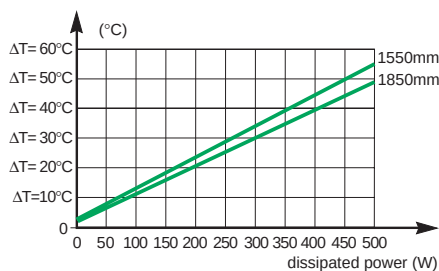
Prisma G cubicle (IP3)

Test condition:
500 mm wide enclosure
Wall mounted directly without
fixing lugs.



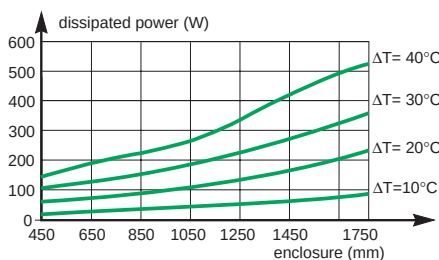
Prisma G cubicle (IP4)

Test condition:
500 mm wide enclosure
Wall mounted directly without
fixing lugs.



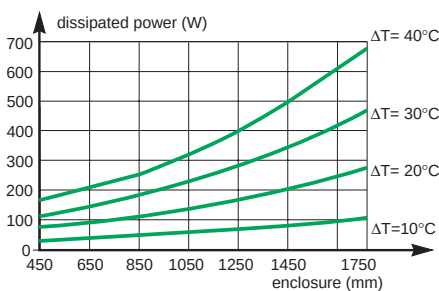
Prisma GX cubicle (IP4)

Test condition:
500 mm wide enclosure
Placed on the floor against a
wall.



Prisma GK cubicle (IP5)

Test condition:
550 mm wide enclosure
wall mounted using wall fixing
lugs or on the wall fixing
uprights.



Prisma GK cubicle (IP5)

Test condition:
600 mm wide enclosure
wall mounted directly without
fixing lugs or uprights.

Thermal management of switchboards

Ventilation

Switchboard ventilation

Air enters through the bottom section via the fan and exits through the top section:

- via a ventilated roof or
- via a ventilation outlet.

Throughput of the fan is calculated by the equation:

$$D = 3.1 \times \left(\frac{P}{\Delta T} - KS \right)$$

The chart below can be used to determine the required throughput on the basis of the power to be dissipated, the difference in temperature (internal / external) and the free surface area of the enclosure.

Example

A Prisma P cubicle, 400 mm deep and 700 mm wide, contains equipment (devices, busbars, etc.) dissipating 1000 W.

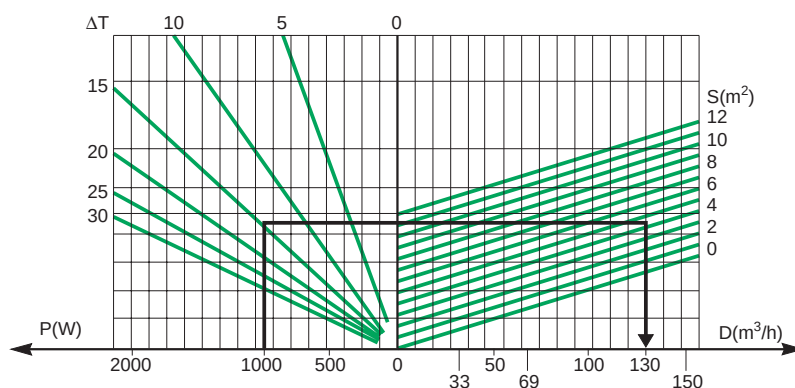
The difference in temperature (internal / external) is limited to 15 °C. The free surface area of the enclosure is 4.9 square meters.

What is the required throughput of the fan? Using the equation:

$$D = 3.1 \times \left(\frac{1000}{15} - 5.5 \times 4.9 \right)$$

$$D = 122 \text{ m}^3/\text{h}.$$

Among the range of accessories for Prisma cubicles, the user must select a 38 W fan with an outlet grill.



Thermal management of switchboards Heating

Switchboard heating

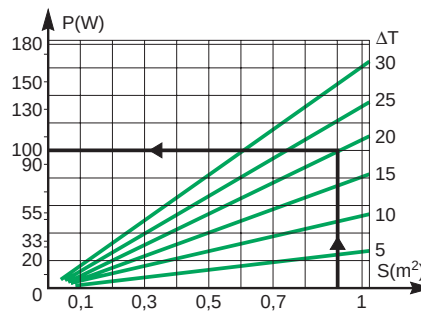
The heating element, placed at the bottom of the switchboard, maintains the internal temperature to within 10° C of the external temperature. When the switchboard is not in operation, the heater compensates the heat normally produced in the switchboard.

The required power rating for the heater is determined by:

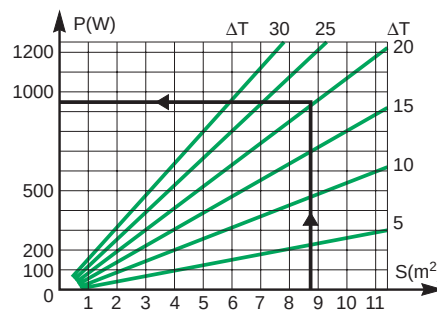
■ the equation $P_r = (\Delta T \times S \times K) - P$, or

■ the charts below, on the basis of the free surface area of the enclosure and the desired maximum difference in temperature.

Calculation chart for heaters in small enclosures (surface area $\leq 1 \text{ m}^2$).



Calculation chart for heaters in all types of cubicles and enclosures



Variables used in calculations

P : power dissipated by the devices, connections and busbars (in Watts)

P_r : heater power rating (in Watts)

T_m : maximum internal temperature in the device zone (°C)

T_i : average internal temperature (°C)

T_e : average external temperature (°C)

$\Delta T_m = T_m - T_e$

$\Delta T = T_i - T_e$

S : total free surface area of the enclosure (in square meters)

K : thermal-conduction coefficient of the material (W/m² °C)

K = 5.5 W/m² °C for painted sheet metal.

K = 4 W/m² °C for polyester

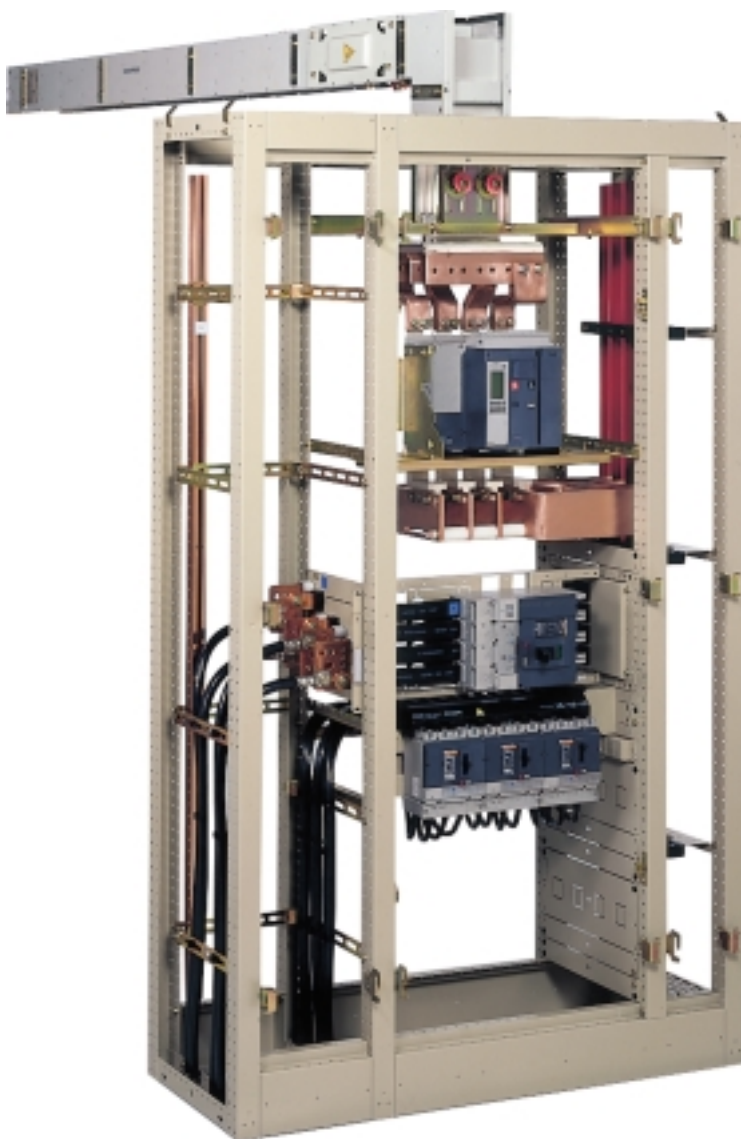
D : fan throughput (m³/h)

Note: The power dissipated by devices is indicated by the manufacturers. Add approximately 30 % to account for the connections and the busbars.

Enclosures and cubicles

Functional system Prisma P

Catalogue



Merlin Gerin

Modicon

Square D

Telemecanique

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02449	Spray paint RAL 7032	124	07030	20 bolts, M10 x 25mm + washers	103
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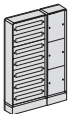
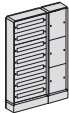
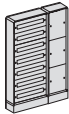
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Selection table

Prisma functional system

	Commercial buildings		Industrial buildings	
				
Main low voltage switchboards up to 3200 A	Prisma G functional system, refer to catalogue ART 94848		Prisma P functional system	
	 <i>Prisma G</i>	 <i>Prisma GX</i>	 <i>Prisma P</i>	 <i>Prisma P</i>
Secondary distribution switchboard	Prisma G functional system, refer to catalogue ART 94848		Prisma P functional system	
	 <i>Prisma G</i>	 <i>Prisma GX</i>	 <i>Prisma P</i>	 <i>Prisma P</i>
Final distribution switchboard	Prisma G functional system, refer to catalogue ART 94848		Prisma P functional system	
	 <i>Prisma G</i>	 <i>Prisma GX</i>	 <i>Prisma P</i>	 <i>Prisma P</i>
Building machinery switchboard	Prisma G functional system, refer to catalogue ART 94848		Prisma P functional system	
	 <i>Prisma G</i>	 <i>Prisma GX</i>	 <i>Prisma P</i>	 <i>Prisma P</i>

Prisma G functional system refer to Prisma G functional system catalogue, Art 94848



Prisma G, GK enclosures and Prisma GX cubicles

The Prisma G functional system can be used to build all types of main, secondary and final low-voltage switchboards up to 630 A, for industrial and commercial buildings.

The same components, whether for switchgear installation, current distribution, cable running, etc., may be installed in any of four types of enclosures or cubicles, depending on the size of the switchboard and the installation site.

■ Prisma G enclosures:

- IP30, 40, 43,
- IK07, 08,
- may be dismantled,
- may be joined side by side or one on top of the other,
- 300 mm duct may be added on side, top or bottom,
- 6 heights ranging from 200 to 1200 mm,
- width: 550 mm;

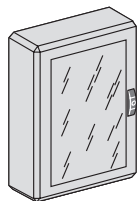
■ Prisma GX cubicles:

- IP30, 40, 43,
- IK07, 08,
- may be dismantled,
- may be joined side-by-side,
- a Prisma G enclosure may be added on top,
- 300 mm add-on duct,
- 2 heights: 1550 and 1850 mm,
- width: 550 mm;

■ Prisma GK enclosures:

- IP55,
- IK10,
- may be dismantled,
- may be joined side by side and/or top bottom,
- 300 mm add-on duct,
- 7 heights from 450 to 1750 mm,
- width 600 mm.

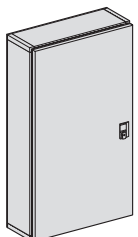
General characteristics



Prisma G enclosure



Prisma GX cubicle



Prisma GK

Enclosure

■ material

- Prisma G, GX, GK: sheet steel,
- anti-corrosion protection,

■ surface treatment

Anti-corrosion coating, smooth or textured thermal polymerised polyester-epoxy powder. Colour Prisma beige;

■ busbar insulating supports

All plastic parts withstand fire or excessive heat caused by internal electrical phenomena, as per IEC 695-2.1: 960° 30 s / 30 s for supports for live metal parts;

■ building up installations

Functional Prisma G components can be used to build switchgear assemblies that comply with standards IEC 439-1 and EN 60439-1, with the following electrical characteristics:

- rated insulation voltage for the main busbars at the rear of the switchboard: 1000 V,
- rated operating current I_e (40° C): 630 A,
- peak withstand current: $I_{pk} = 53$ kA,
- short time withstand current: $I_{cw} = 25$ kA rms / 1 s,
- frequency 50 / 60 Hz.



Prisma P switchboard and Canalis busbar trunking



ATTENTION PHOTOS 130 %

Prisma electrical switchboards

For a dependable electrical installation

Total compatibility between Merlin Gerin switchgear devices and the Prisma system helps build dependability into every electrical installation.

The design of the system has been validated by type tests in compliance with standard IEC 60439-1 and benefits from experience acquired with Schneider customers over many years.

An electrical installation capable of evolving

Modular in structure, Prisma can keep pace with evolving switchboard needs and integrate new functional units as required. Maintenance is carried out with the switchboard de-energised.

Maintenance operations are fast and easy with total access to all switchgear devices.

Total safety for users

Switchgear devices are installed behind a protective front plate that leaves only the operating handle visible. Other barriers can be mounted inside to provide form 2, 3 or 4 separation.

When implemented in compliance with Schneider recommendations, the Prisma functional system can be used to build electrical switchboards that comply with international standard IEC 60439-1.

Prisma P functional system

The Prisma P functional system can be used to build all types of main, secondary and final low-voltage switchboards up to 3200 A, for industrial and commercial buildings.

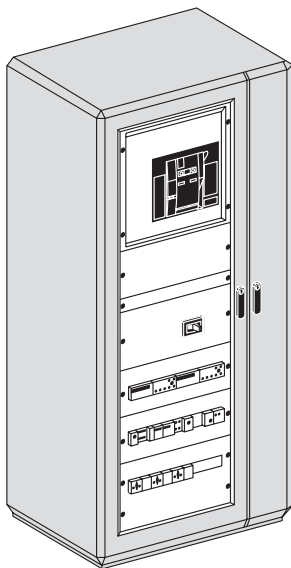
The same components, whether for switchgear installation, current distribution, cable running, etc., may be installed in any of two types of enclosure, depending on the installation site.

■ Prisma P cubicles:

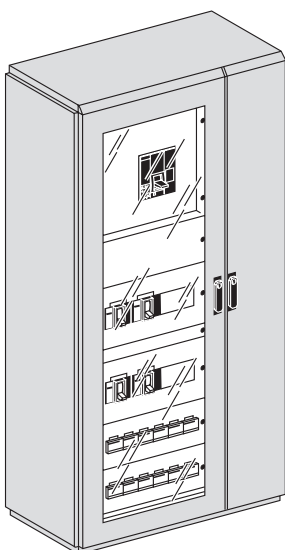
- ☐ IP20, 30, 31, 54
- ☐ IK08
- ☐ may be dismantled
- ☐ may be joined side by side
- ☐ 3 basic widths: 700, 900, 1100 mm
- ☐ 2 extension widths: 700, 900 mm
- ☐ 1 cable duct: 600 mm
- ☐ 1 extension duct: 300 or 400 mm
- ☐ 2 depths: 400, 600 mm
- ☐ height: 2000 mm

■ Prisma PH cubicles:

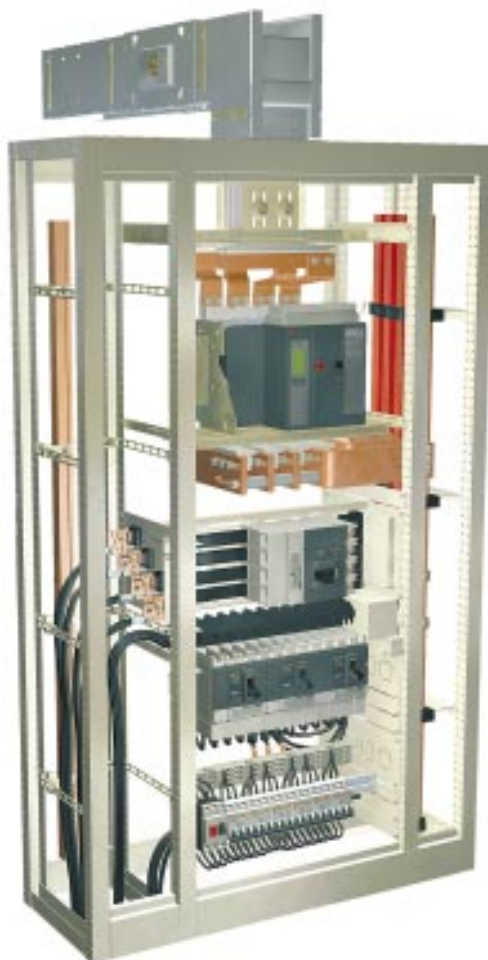
- ☐ IP55
- ☐ IK10
- ☐ may be dismantled
- ☐ may be joined side by side
- ☐ basic width: 700 mm
- ☐ duct width: 300 mm
- ☐ 2 depths: 500 and 700 mm
- ☐ height: 2000 mm.



Prisma P



Prisma PH



General characteristics

Enclosure

■ material

- Prisma P: sheet steel, anti-corrosion protection
- Prisma PH: phosphatised TC sheet steel, 1.5 mm thick

■ surface treatment

Anti-corrosion coating, thermal polymerised polyester-epoxy powder. Colour Prisma beige.

■ busbar insulating supports

All plastic parts withstand fire or excessive heat caused by internal electrical phenomena, as per IEC 695-2.1: 960° 30s/30s for supports for live metal parts.

Building up installations

Functional Prisma components can be used to build switchgear assemblies in compliance with: standards IEC 60439-1.

■ with the following electrical specifications:

- rated insulation voltage for the main busbars: 1000 V
- rated current 3200 A
- peak withstand current: I_{pk} 187 kA
- short time withstand current: I_{cw} 85 kA rms/1 s
- frequency 50/60 Hz.

Prisma P functional system

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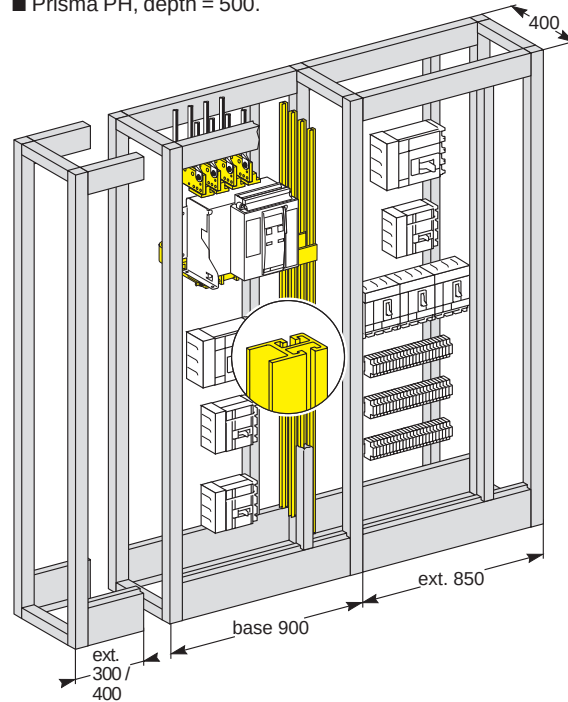
Up to 1600 A

Front connection of cables:

Incoming unit: Compact circuit breaker NS630b/1600 or Masterpact NT06/16 circuit breaker.

Choice of cubicles:

- Prisma P, depth = 400
- Prisma PH, depth = 500.



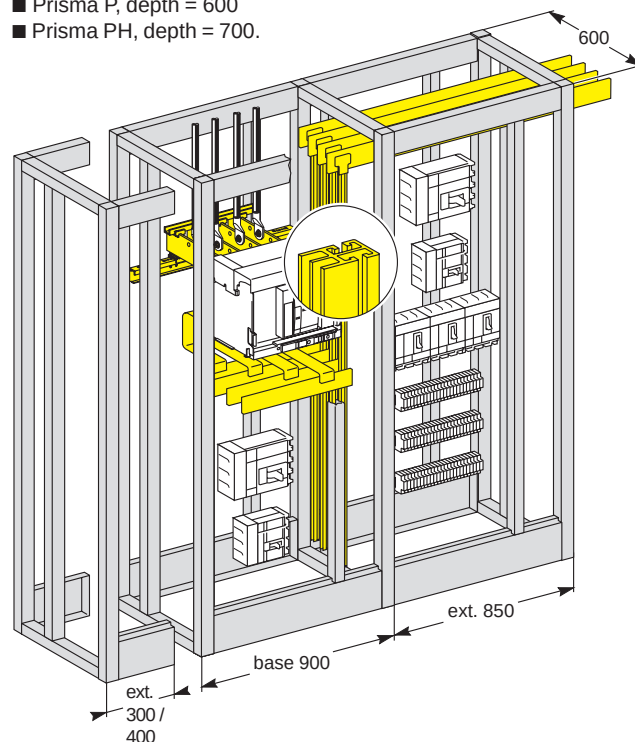
Linergy 1600 A busbars in a 400 mm depth Prisma P switchboard. They are supplied directly by a fixed Masterpact NT circuit breaker (edgewise downstream terminals).

Connection of the cables from the rear:

Incoming unit: Compact NS630b/1600 Masterpact NT06/16 or NW 08/16 circuit breaker rear connected.

Choice of cubicles:

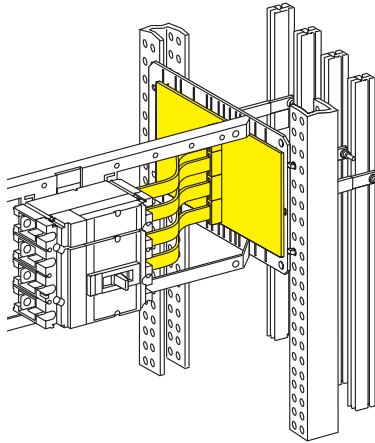
- Prisma P, depth = 600
- Prisma PH, depth = 700.



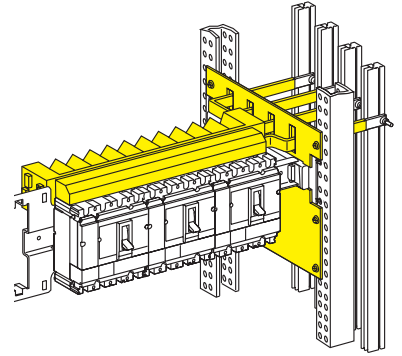
Linergy 1600 A busbars in a 600 mm depth Prisma P switchboard. They are supplied by a Masterpact NW16 drawout circuit breaker (flat downstream terminals) via horizontal transfer busbars.

Connection with Form 2 barrier between Linergy busbars and Compact circuit breaker

Prefabricated connection for horizontal Compact NS circuit breaker. The connection is supplied with a metal barrier to protect against direct access to the Linergy busbars and comply with Form 2 separation requirements. Polypact distribution block, fitted with a prefabricated connection. It supplies three Compact NS 3-pole circuit breakers mounted in a vertical position. Supplied with Form 2 barrier.



Prefabricated connection

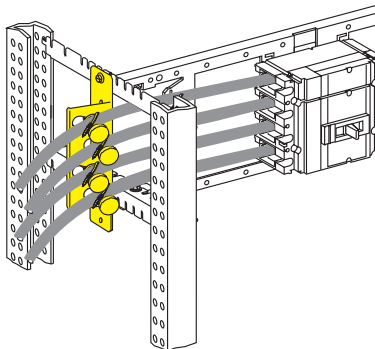


Polypact distribution block

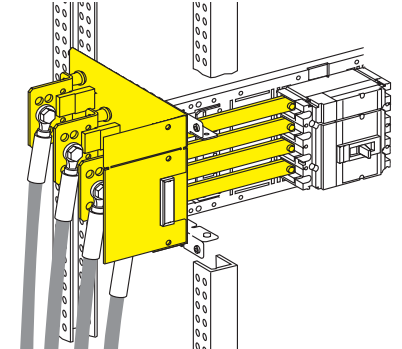
On-site connection of Compact devices

A cable tie support is used to avoid excessive forces on the circuit-breaker terminals and secure connections.

A prefabricated connection assembly fitted to the circuit breakers ensures easy on-site connection of switchgear to large cables in the duct. It comes with a protective barrier.



Cable tie support

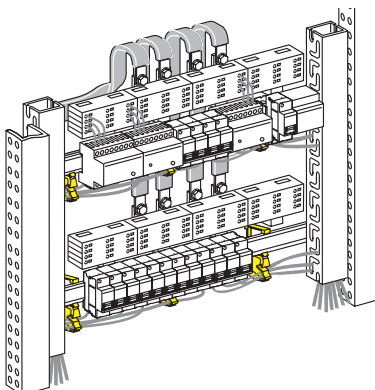


On site connection in the duct

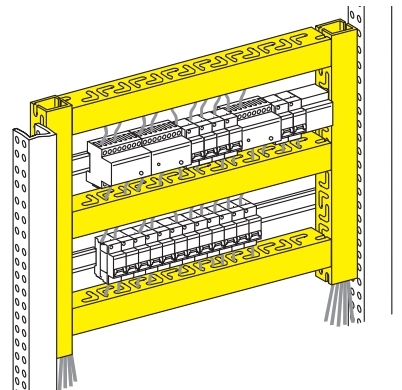
Connection of Multi 9 devices

Distribution by a Multiclip block, horizontal cables supported by straps and vertical cables by trunking.

All incoming and outgoing cables run in horizontal and vertical trunking.



Distribution by a Multiclip block



Incoming and outgoing cables

Switchboard examples with Masterpact NT fixed front connected

Up to 1600 A

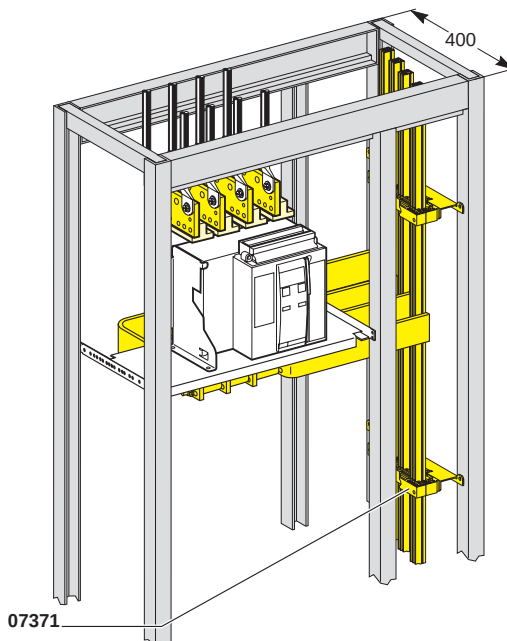


Front connection of cables:

Incoming unit: Compact NS630b/1600 or Masterpact NT06/16 circuit breaker.

Choice of cubicles:

- Prisma P, depth = 400.



Linergy 1600 A busbars in a 400 mm depth Prisma P switchboard. They are supplied directly by a fixed Masterpact NT circuit breaker (edgewise downstream terminals).

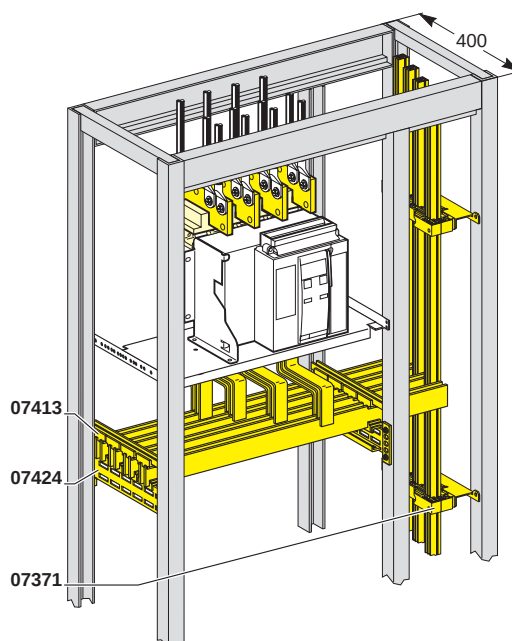


Front connection of cables:

Incoming unit: Compact circuit breaker NS630b/1600 or Masterpact NT06/16 circuit breaker.

Choice of cubicles:

- Prisma P, depth = 400.



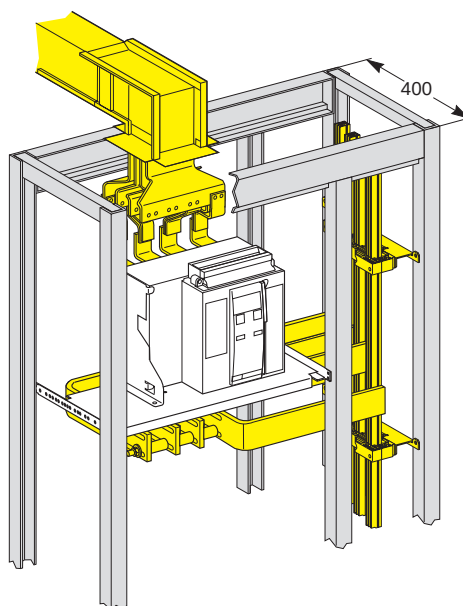
Linergy 1600 A busbars in a 400 mm depth Prisma P switchboard. They are supplied directly by a fixed Masterpact NT circuit breaker (flat downstream terminals) via horizontal transfer busbars.

Up to 1600 A

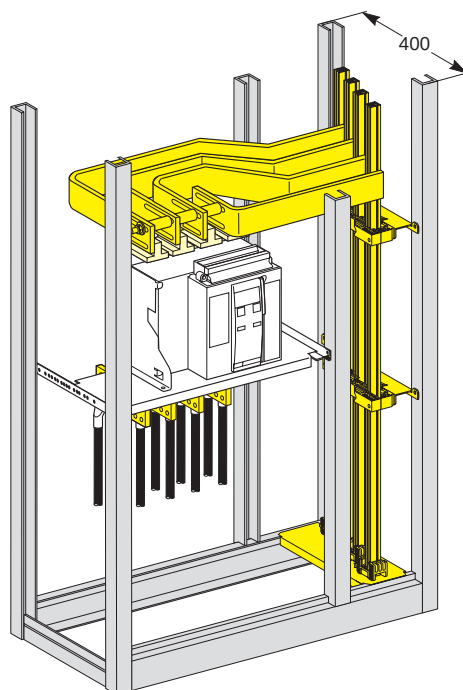


Prefabricated connection.

Masterpact NT, fixed



- top incomer
- supplied by busbar trunking system (Telemecanique)
- connected to a Linergy busbar with a prefabricated connection.

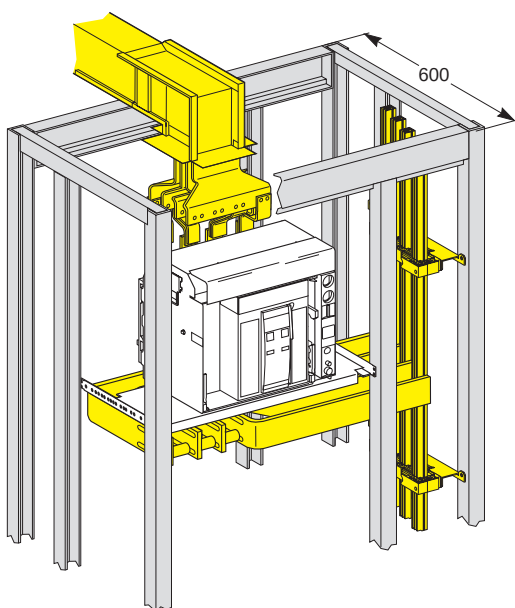


- bottom incomer
- supplied by cables
- connected to a Linergy busbar with a prefabricated connection.

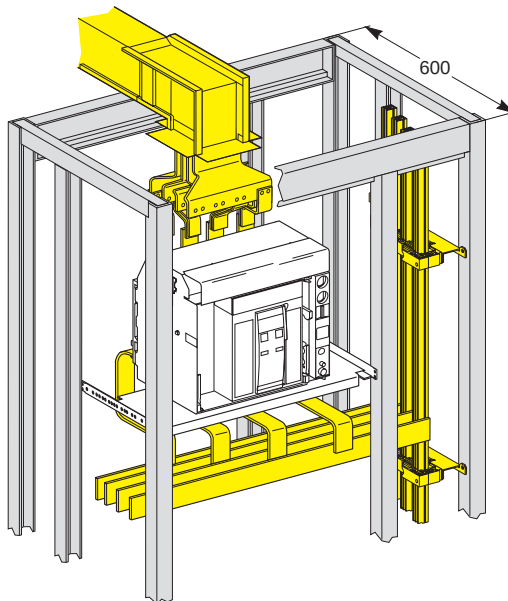
Flat 1600 A busbars in a 800 mm depth Prisma P switchboard. They are supplied directly by a fixed Masterpact NT circuit breaker (edgewise downstream terminals).

Switchboard examples with Masterpact NT, drawout, front connected

Up to 1600 A

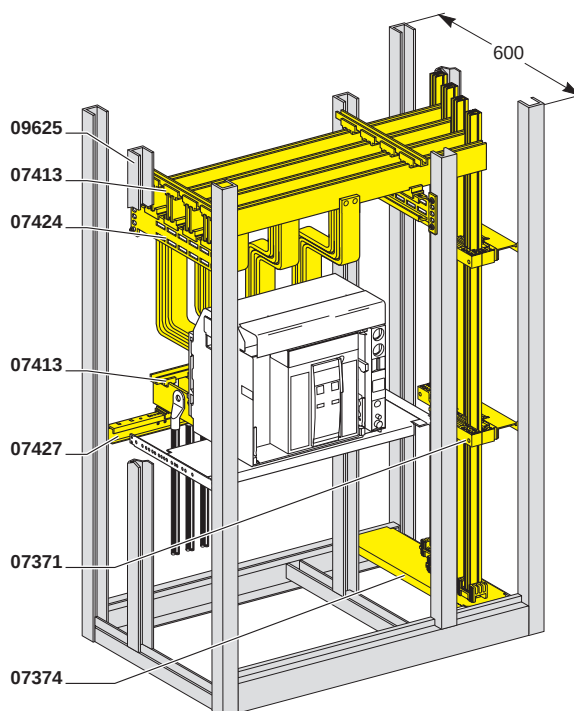


- top incomer
- supplied by busbar trunking system (Telemecanique)
- connected to a Linergy busbar with a prefabricated connection.

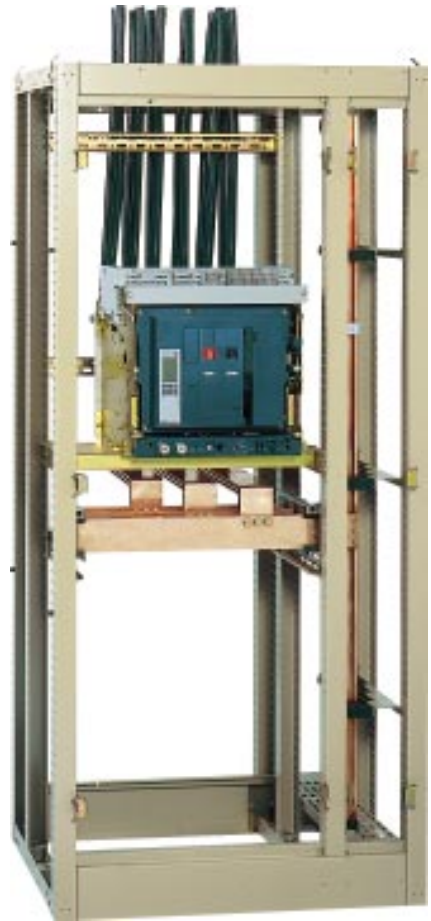


- top incomer
- supplied by busbar trunking system (Telemecanique)
- connected to a Linergy busbar via horizontal transfer busbar.

Masterpact NT, drawout, rear connected

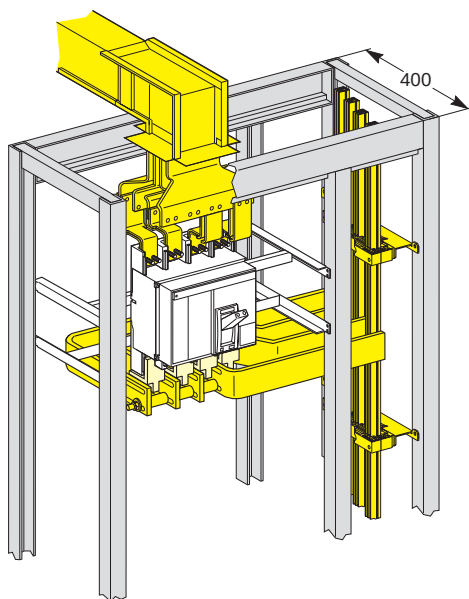


- bottom incomer
- supplied by cables
- connected to a Linergy busbar via horizontal transfer busbar.

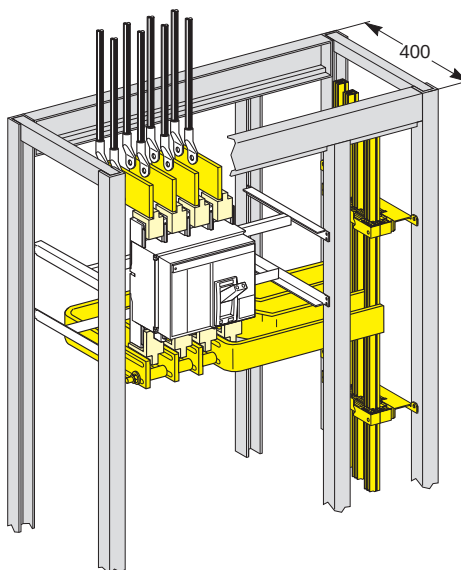


Switchboard examples with Compact NS, fixed, front connected

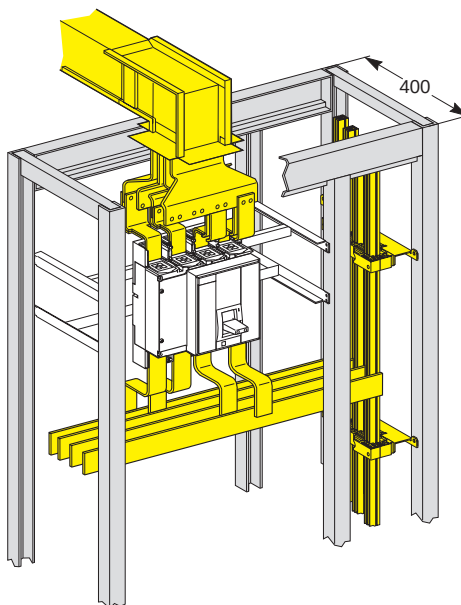
Up to 1600 A



- top incomer
- supplied by busbar trunking system (Telemecanique)
- connected to a Linergy busbar with a prefabricated connection.



- top incomer
- supplied by cables
- connected to a Linergy busbar with a prefabricated connection.



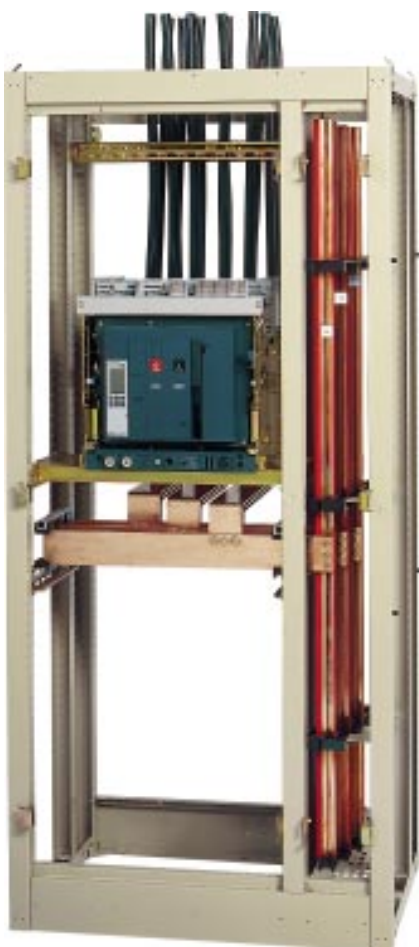
- top incomer
- supplied by busbar trunking system (Telemecanique)
- connected to a Linergy busbar via horizontal transfer busbar.

Switchboard examples with Masterpact NW

Up to 1600 A

Masterpact NW, drawout, rear connected:

The Linergy busbar is supplied via horizontal transfer busbars.
Supply cables are connected to the terminal extension at the rear of the device.



Switchboard examples with Masterpact NW

Up to 2000 A

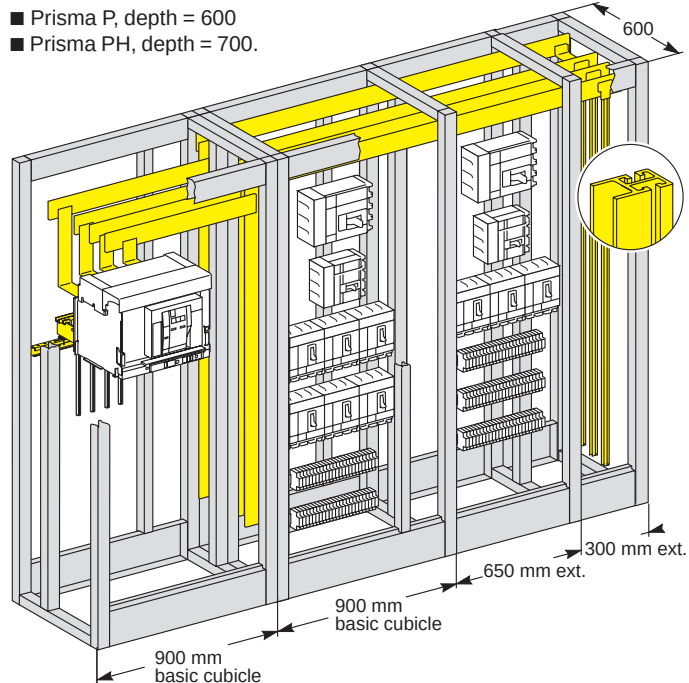


Connection of the cables from the front:

Incoming device: Masterpact NW 08/20 circuit breaker.

Choice of cubicles:

- Prisma P, depth = 600
- Prisma PH, depth = 700.



Main 2000 A busbars (flat bars) in a Prisma P switchboard with a depth of 600 mm, supplied via the top terminals of a Masterpact NW20 circuit breaker (flat upstream terminals).

Linery busbars are used for distribution to the circuit breakers installed in the adjoining cubicles.

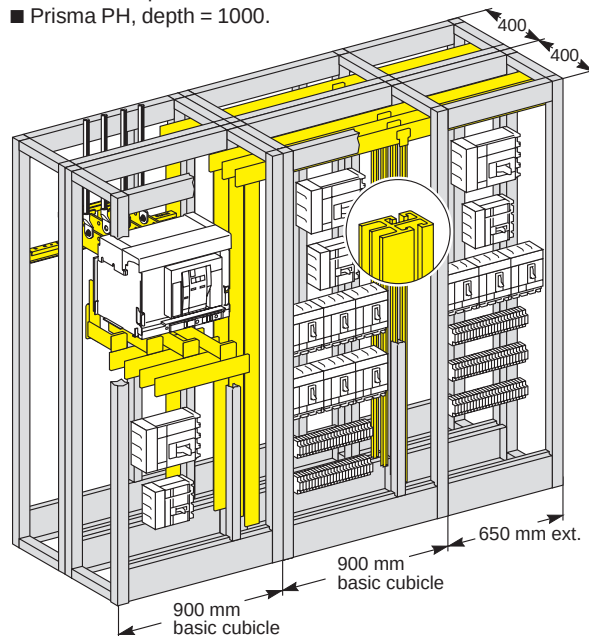
Up to 2500 A

Connection of the cables from the rear:

Incoming device: Masterpact NW 08/25 circuit breaker.

Choice of cubicles:

- Prisma P, depth = 800
- Prisma PH, depth = 1000.



Main 2500 A busbars (flat bars) in a Prisma P switchboard with a depth of 800 mm. They are supplied by a Masterpact NW25 circuit breaker (edgewise downstream terminals) via horizontal transfer busbars.

Linery busbars are used for distribution to the circuit breakers installed in the adjoining cubicles.

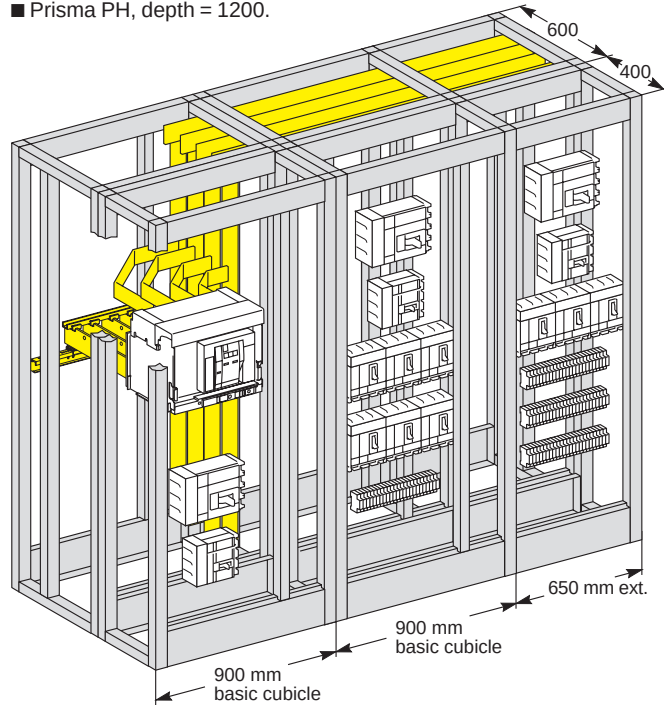
Up to 3200 A

Connection of the cables from the rear:

Incoming device: Masterpact NW08/32 circuit breaker.

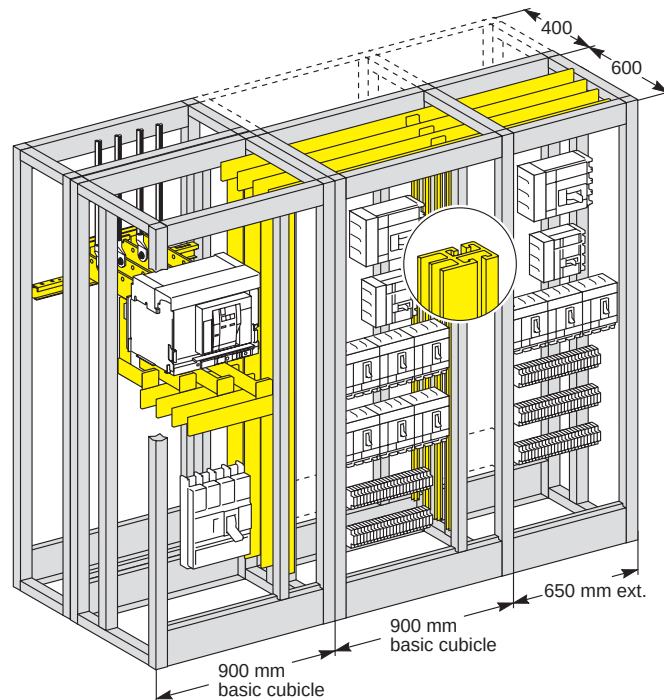
Choice of cubicles:

- Prisma P, depth = 1000
- Prisma PH, depth = 1200.



Main 3200 A busbars (flat bars) in the rear of a double-depth (1000 mm) Prisma P switchboard.

They are supplied directly by a Masterpact NW32 circuit breaker (edgewise upstream terminals).



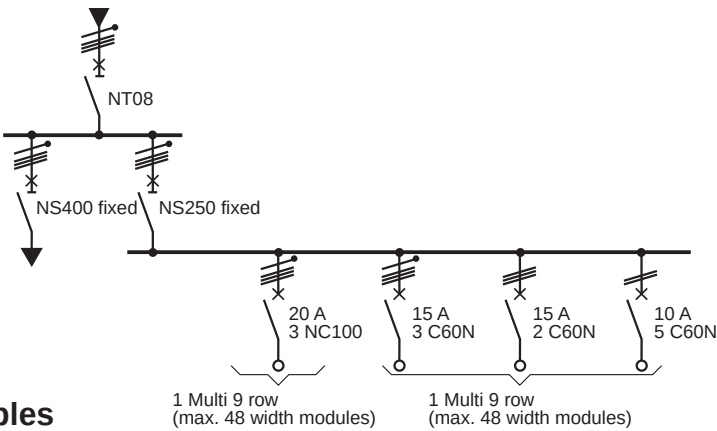
Main 3200 A busbars (flat bars) in the front of a double-depth (1000 mm) Prisma P switchboard.

They are supplied by a Masterpact NW32 circuit breaker (downstream terminals edgewise) via horizontal transfer busbars.

Linery busbars are used for distribution to the circuit breakers installed in the adjoining cubicles.

Using the circuit diagram

Draw up the list of devices to be installed grouping them by functional units.



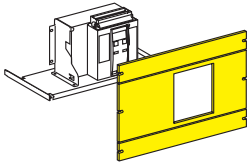
And using the catalogue number tables

1 For the incoming unit, determine:
■ the number of vertical modules required
■ the part numbers of the mounting plate and front plate.

Choose the mounting plates and front plates
page 34.

■ the connections

device	no. of vert. mod.	mounting plate	barrier	front plate
NT08 fixed front connected	12	07622	07286	07803 + 07920 + 07802



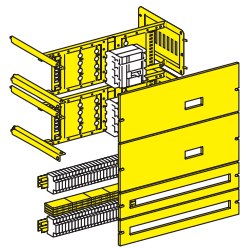
connection of devices									
nb of poles	upstream terminals				downstream terminals				
	front connect.	vert. connect.	pads for cables connect.	vert. rear	front connect.	pref. link / Linergy (Prisma P) connector+link	rear connections		
							horiz.	vert.	
4P	■	33643 +47336			■	33643	07241		

2 For the outgoing units, determine:
■ the number of vertical modules required
■ the catalogue numbers of the mounting plate (or the rail), front plate, prefabricated upstream connection between the devices and the busbars or the connection support screen.

Choose the mounting plates and front plates
page 56.

device	no. of vert. mod.	mounting plate	barrier with connec.	front plate
NS400	5	07735	07235	07975
NS250	4	07731	07231	07852
1 Multi 9 row(1)	4	07603	07263(2)	07814
1 Multi 9 row(1)	4	07603	07263(2)	07814

(1) 48 Multi 9 modules per row.
(2) Without connection.

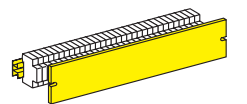


3 For the terminal blocks, determine:
■ the space required (number of modules)
■ the part numbers of the rail and the front plate.

Choose the mounting plates and front plates
page 68.

terminal blocks	no. of vert. mod.	mounting plate	barrier with connec.	front plate
terminal blocks	3	07603	07263(2)	07803

(2) Without connection.



4 Add up the number of modules required (each cubicle can contain 35 vertical modules).

32

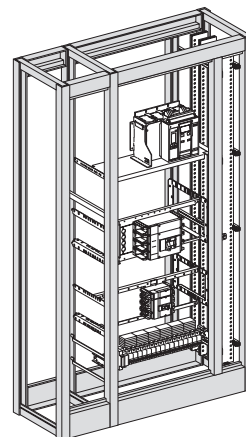
5 Determine the optimum layout of the devices and chooses the frames, based on:

- the degree of protection IP
- the dimensions of the incoming unit (see examples)
- the current rating and layout of the busbars
- duct requirements (busbars, cables).

Choice of frames **page 74**.

For IP20

description	cat. No.
frame	09306



6 Determine the catalogue numbers for:

- the busbars, the distribution blocks (Multiclip)
- cable running accessories
- site installation accessories
- other accessories.

Choice of busbars, **pages 90 to 100**.

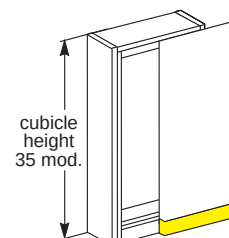
Choice of accessories, **pages 102 to 119**.

description	cat. No.
Cu bar	4 x 07363
vertical busbar support	3 x 07371
bottom support	07373
set of cable tie bars	3 x 07420
Multiclip	07004
earth bar	07362

7 If the device to be installed do not take up the 35 modules of the cubicle, determine the plain front plates required to cover up the remaining modules.

Choice of front plates, **page 68**.

no. of extra modules	extra plain front plate
35 - 32 = 3	07803



8 According to the desired degree of protection and the frames selected, choose the appropriate cover components (backs, doors, side panels, gaskets).

Choice of covers, **page 77**.

description	cat. No.
front plate support door W = 700	09322
plain wicket-door	09325
wicket-door with cutouts	09326
screw-on back (width 900)	09354
screw-closed rear door (width 200)	09358
2 side panels (depth = 400)	09364

Practical help in designing switchboards



Software

Developed in collaboration with Schneider customers, special computer programs may be used to design and calculate prices for electrical installations. They offer the following main functions:

- design of electrical diagrams
- parts list
- view of the layout in the enclosure
- illustration of the front panel
- printing of the quotation and the order form.

They may be installed on most computers currently available on the market (PCs and compatible) under MS Windows.

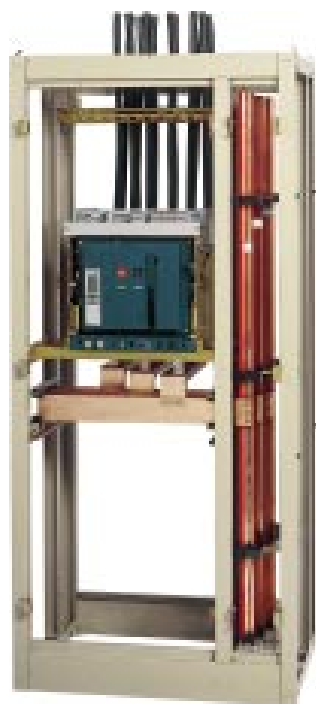
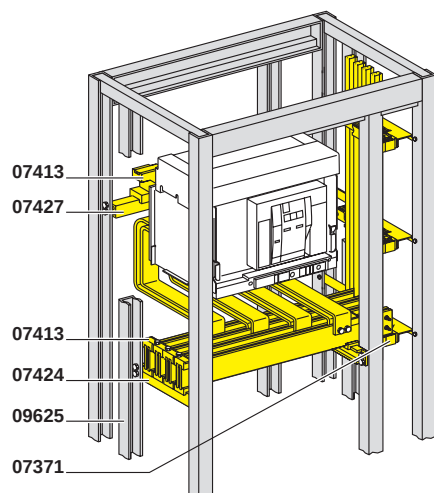
Software offered by Schneider:

- ECOelec: for electrical installations up to 630 A (french "tarif bleu" and "tarif jaune")
 - ECObat: for electrical installations up to 3200 A.
- Consult your Schneider sales office.

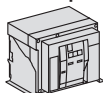
Design guides

Design guides are short booklets containing:

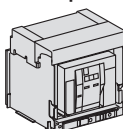
- an example of how to determine the equipment required on the basis of an electrical diagram
 - illustrated selection tables that may be used to rapidly determine the right catalogue numbers
 - several forms specially designed for:
 - ☐ listing the catalogue numbers of parts to be ordered
 - ☐ laying out the devices in the switchboard
 - ☐ facilitating quotations
 - illustrated examples of correctly installed and connected switchboards.
- They are free and may be obtained from your nearest Schneider sales office.



fixed
Masterpack



draw-out
Masterpack



Device	Installation of device
vertical mounting	vertical modules required (1 module = 50 mm)
NW08 to NW16 fixed, rear connections	
direct downstream connection on flat vertical busbar	13
downstream connection on vertical busbar via a transfer busbar	17
NW20 fixed, rear connections	
direct downstream connection on flat vertical busbar	13
downstream connection on flat vertical busbar via a transfer busbar	18
NW25 to NW32 fixed, rear connections	
direct downstream connection on flat vertical busbar	16
downstream connection on flat vertical busbar via a transfer busbar	22
NW08 to NW16 draw-out, rear connections	
direct downstream connection on flat vertical busbar	13
downstream connection on vertical busbar via a transfer busbar	17
NW20 draw-out, rear connections	
direct downstream connection on flat vertical busbar	13
downstream connection on flat vertical busbar via a transfer busbar	18
NW25 to NW32 draw-out, rear connections	
direct downstream connection on flat vertical busbar	16
downstream connection on flat vertical busbar via a transfer busbar	22

(1) In the floor standing enclosure Prisma P depth 600 and Prisma PH depth 700, if the device is supplied with more than 3 cables per phase, bar tails must be fitted above the device. You then need to count 3 extra modules and add a plain top front plate 07803.

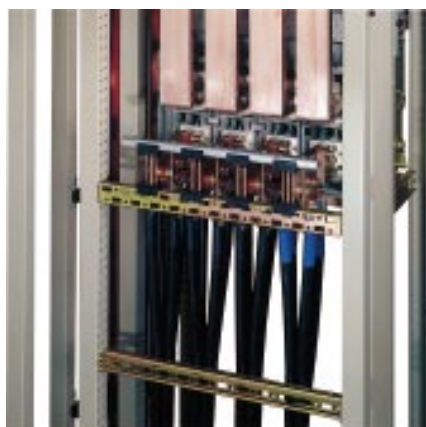
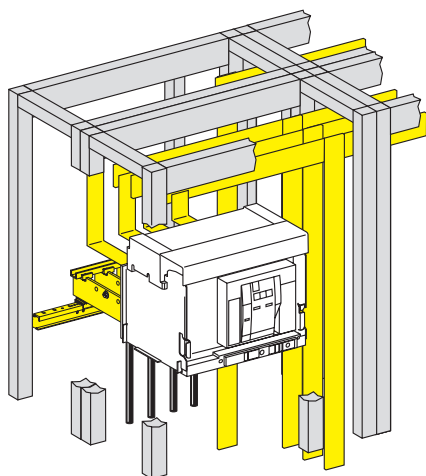
(2) A door frame (reference 48601 for fixed device and 48603 for draw-out device) to be ordered with the device, is installed on the front plate, and ensures a degree of protection of IP40 at device level.

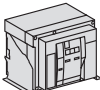
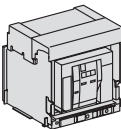
						Connection of devices				Busbars layout in Prisma cubicle			
	mounting plate	cut-out front plate	top front plate	bottom front plate	Form 2 partition	nb. of poles	upstream terminals vert. rear connections	downstream terminals		connection possible connection not possible			
										Prisma P D = 400 Prisma PH D = 500	Prisma P D = 600 Prisma PH D = 700	Prisma P D = 800 Prisma PH D = 1000	Prisma P D = 1000 Prisma PH D = 1200
	07655	07935 (2)	07802			3P 4P	■ ■		■ ■				
	07655	07935 (2)	07802	07804	07283	3P 4P	■ ■	■ ■					
	07655	07935 (2)	07802			3P 4P	■ ■		■ ■				
	07655	07935 (2)	07802	07805	07283	3P 4P	■ ■	■ ■					
	07655	07935 (2)	07805			3P 4P	■ ■		■ ■				
	07655	07935 (2)	07805	07806	07283 + 07260	3P 4P	■ ■		■ ■				
	07655	07936 (2)	07802			3P 4P	■ ■		■ ■				
	07655	07936 (2)	07802	07804	07283	3P 4P	■ ■	■ ■					
	07655	07936 (2)	07802			3P 4P	■ ■		■ ■				
	07655	07936 (2)	07802	07805	07283	3P 4P	■ ■	■ ■					
	07655	07936 (2)	07805			3P 4P	■ ■		■ ■				
	07655	07936 (2)	07805	07806	07283 + 07260	3P 4P	■ ■		■ ■				

● Optional connection on a complete busbar at the enclosure back.

■ Optional connection on a partial busbar at the enclosure back (under the incoming unit).

In event of connection by busbar at the enclosure back, there is no form 2 partitioning as standard.



	Device	Installation of device
	vertical mounting	vertical modules required (1 module = 50 mm)
fixed Masterpact 	NW08 to NW16 fixed, rear connections	
	direct downstream connection on flat vertical busbar	13
	downstream connection on vertical busbar via a transfer busbar	17
	NW20 fixed, rear connections	
	direct downstream connection on flat vertical busbar	13
	downstream connection on flat vertical busbar via a transfer busbar	18
	NW25 to NW32 fixed, rear connections	
	direct downstream connection on flat vertical busbar	16
	downstream connection on flat vertical busbar via a transfer busbar	22
draw-out Masterpact 	NW08 to NW16 draw-out, rear connections	
	direct downstream connection on flat vertical busbar	13
	downstream connection on vertical busbar via a transfer busbar	17
	NW20 draw-out, rear connections	
	direct downstream connection on flat vertical busbar	13
	downstream connection on flat vertical busbar via a transfer busbar	18
	NW25 to NW32 draw-out, rear connections	
	direct downstream connection on flat vertical busbar	16
	downstream connection on flat vertical busbar via a transfer busbar	22

(1) In the floor standing enclosure Prisma P depth 600 and Prisma PH depth 700, if the device is supplied with more than 3 cables per phase, bar tails must be fitted above the device. You then need to count 3 extra modules and add a plain top front plate 07803.

(2) A door frame (reference 48601 for fixed device and 48603 for draw-out device) to be ordered with the device, is installed on the front plate, and ensures a degree of protection of IP40 at device level.

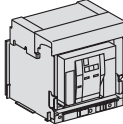
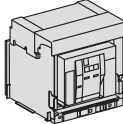
						Connection of devices			Busbars layout in Prisma cubicle			
mounting plate	cut-out front plate	top front plate	bottom front plate	Form 2 partition	nb of poles	upstream terminals		downstream terminals vert. rear connections	connection possible connection not possible			
						rear connections vert.	horiz.		Prisma P D = 400 Prisma PH D = 500	Prisma P D = 600 Prisma PH D = 700	Prisma P D = 800 Prisma PH D = 1000	Prisma P D = 1000 Prisma PH D = 1200
												
07655	07935 (2)		07802		3P 4P	■ ■		■ ■				
07655	07935 (2)	07804	07802	07283	3P 4P		■ ■	■ ■				
07655	07935 (2)		07802		3P 4P	■ ■		■ ■				
07655	07935 (2)	07805	07802	07283	3P 4P		■ ■	■ ■				
07655	07935 (2)		07805		3P 4P	■ ■		■ ■				
07655	07935 (2)	07806	07805	07283 + 07260	3P 4P	■ ■		■ ■				
07655	07936 (2)		07802		3P 4P	■ ■		■ ■				
07655	07936 (2)	07804	07802	07283	3P 4P		■ ■	■ ■				
07655	07936 (2)		07802		3P 4P	■ ■		■ ■				
07655	07936 (2)	07805	07802	07283	3P 4P		■ ■	■ ■				
07655	07936 (2)		07805		3P 4P	■ ■		■ ■				
07655	07936 (2)	07806	07805	07283 + 07260	3P 4P	■ ■		■ ■				

● Optional connection on a complete busbar at the enclosure back.

■ Optional connection on a partial busbar at the enclosure back (under the incoming unit).

In event of connection by busbar at the enclosure back, there is no form 2 partitioning as standard.

Source changeover switch Masterpact NW08 to NW32

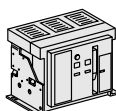
Device		Installation of devices				Busbars layout in Prisma cubicle				
		vertical modules required H = 50 mm	mounting plate 	cut-out front plate 	top front plate 	bottom front plate 	 connection possible  connection not possible			
	vertical mounting						Prisma P D = 400 Prisma PH D = 500	Prisma P D = 600 Prisma PH D = 700	Prisma P D = 800 Prisma PH D = 1000	Prisma P D = 1000 Prisma PH D = 1200
 fixed device (1)	800/2000 A, fixed, rear connections									
	direct connection on BB	29	2 x 07655	2 x 07935 + 07803 (2)	07802	07802				
	vertical rear connections									
	connec. on horiz. transfer horiz. down. rear connec. (up. device) horiz. up. rear connec. (down. device)	29	2 x 07655	2 x 07935 + 07803 (2)	07802	07802				
 draw-out device (1)	2500/3200 A, fixed, rear connections									
	direct connection on BB	35	2 x 07655	2 x 07935 + 07803 (2)	07805	07805				
	vertical rear connections									
 draw-out device (1)	800/2000 A, draw-out, rear connections									
	direct connection on BB	29	2 x 07655	2 x 07936 + 07803 (2)	07802	07802				
	vertical rear connections									
	connec. on horiz. transfer horiz. down. rear connec. (up. device) horiz. up. rear connec. (down. device)	29	2 x 07655	2 x 07936 + 07803 (2)	07802	07802				
	2500/3200 A, draw-out, rear connections									
	direct connection on BB	35	2 x 07655	2 x 07936 + 07803 (2)	07805	07805				
	vertical rear connections									

(1) Interlocking by cables.

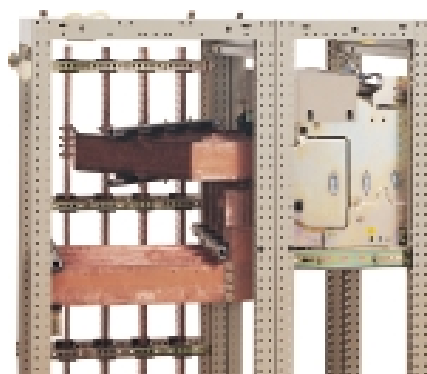
(2) A door frame (reference 48601 for fixed device and 48603 for draw-out device) to be ordered with the device, is installed on the front plate, and ensures a degree of protection of IP40 at device level.



**Masterpact
circuit breaker
and switch
fixed**



Masterpact 1600 A circuit breaker connected to Linergy busbars in a Prisma P cubicle, 600 mm depth



Masterpact circuit breaker supplied from below in Prisma P cubicle, 1000 mm depth. It is connected to vertical busbars the duct.

Device

vertical mounting rear connections

800/1600 A, fixed

connected directly to busbar, edgewise terminals: upstream + downstream
note: rear access imperative

connected directly to busbar, edgewise terminals: upstream + downstream

connected to horizontal transfer, flat downstream terminals
edgewise upstream terminals

2000 A, fixed

connected directly to busbar, edgewise terminals: upstream + downstream

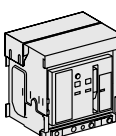
connected to horizontal transfer, flat downstream terminals
edgewise upstream terminals

2500/3200 A, fixed

connected directly to busbar, edgewise terminals: upstream + downstream

connected to horizontal transfer, edgewise terminals: upstream + downstream

**Masterpact
circuit breaker
and switch
drawout**



800/1600 A, drawout (1)

connected directly to busbar, edgewise terminals: upstream + downstream
note: rear access imperative

connected directly to busbar, edgewise terminals: upstream + downstream

connected to horizontal transfer, flat downstream terminals
edgewise upstream terminals

2000 A, drawout (1)

connected directly to busbar, edgewise terminals: upstream + downstream

connected to horizontal transfer, flat downstream terminals
edgewise upstream terminals

2500/3200 A, drawout (1)

connected directly to busbar, edgewise terminals: upstream + downstream

connected to horizontal transfer, edgewise terminals: upstream + downstream

(1) Install an arc chute cover, **685960C** (for 3P devices) or **685961C** (for 4P devices).

(2) Only type N and H devices, installed behind a door or front plate support frame. If more than 3 cables per phase are used to supply the device, terminal extension bars must be installed above the device.

In this case, add 3 modules and one plain top front plate **07803**.

Type L devices are only installed in the following cubicles:

- Prisma P, depth = 800 or 1000 mm
- Prisma PH, depth = 1000 or 1200 mm.

Module		Mounting plate and front plate				Busbars layout in Prisma cubicle			
vertical modules required H = 50 mm	mounting plate	Form 2 partition	cut-out front plate	top front plate	bottom front plate	possible connection impossible connection			
						Prisma P, d = 400 Prisma PH, d = 500	Prisma P, d = 600 Prisma PH, d = 700	Prisma P, d = 800 Prisma PH, d = 1000	Prisma P, d = 1000 Prisma PH, d = 1200
11	07651		07931 (3)						
13	07651		07931 (3)	07802					
17	07651	07283	07931 (3)	07802	07804				
13	07651		07931 (3)	07802					
18	07651	07283	07931 (3)	07802	07805				
16	07651		07931 (3)	07805					
22	07651	07283 + 07260	07931 (3)	07805	07806				
11	07651		07932 (3)						
13	07651		07932 (3)	07802					
17	07651	07283	07932 (3)	07802	07804				
13	07651		07932(3)	07802					
18	07651	07283	07932(3)	07802	07805				
16	07651		07932(3)	07805					
22	07651	07283 + 07260	07932(3)	07805	07806				

(3) An escutcheon (CDP) **685980C**, to be ordered with the device, is installed on the front plate. It provides IP40 protection.

(4) Only type N and H devices.

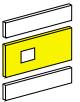
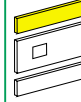
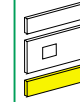
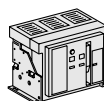
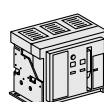
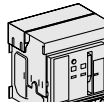
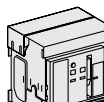
● Can be connected to complete busbar set at rear of cubicle.

■ Can be connected to partial busbar set at rear of cubicle (below incoming unit).

In the case of connection using busbars at the rear of the cubicle, no Form 2 partitioning is available in the catalogue.

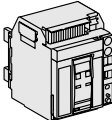
Installation and connection in the switchboard

Masterpact M 08/32

	Device	Module	Mounting plate and front plate			Busbars layout in Prisma cubicle					
		vertical modules required H = 50 mm	mounting plate 	cut-out front plate 	top front plate 	bottom front plate 	 possible connection 	possible connection impossible connection			
	vertical mounting						Prisma P d = 400 Prisma PH d = 500	Prisma P d = 600 Prisma PH d = 700	Prisma P d = 800 Prisma PH d = 1000	Prisma P prof. = 1000 Prisma PH prof. = 1200	
	800/2000 A, fixed, rear connections										
	direct connection to busbar, edgewise terminals	29	2 x 07652	2 x 07931 + 07803 2 x 685980C	07802	07802					
	conn. to horiz. transfer (1) flat downstream term. (upstream device) flat upstream term. (downstream device)	29	2 x 07652	2 x 07931 + 07803 2 x 685980C	07802	07802					
	2500/3200 A, fixed, rear connections										
	direct connection to busbar, edgewise terminals	35	2 x 07652	2 x 07931 + 07803 2 x 685980C	07805	07805					
	800/2000 A, drawout, rear connections (2)										
	direct connection to busbar, edgewise terminals	29	2 x 07652	2 x 07932 + 07803 2 x 685980C	07802	07802					
	conn. to horiz. transfer (1) flat downstream term. (upstream device) flat upstream term. (downstream device)	29	2 x 07652	2 x 07932 + 07803 2 x 685980C	07802	07802					
	2500/3200 A, drawout, rear connections (2)										
	direct connection to busbar, edgewise terminals	35	2 x 07652	2 x 07932 + 07803 2 x 685980C	07805	07805					

(1) When rod interlocking is used, the busbar must be installed to the left of the incoming unit to allow clearance for the interlocking system.

(2) Fit a cover on the arc chute, cat. No. **685960C** (3P devices) or **685961C** (4P devices).

Device		Installation of devices					Partition (optional)		
		vertical modules required (1 module = 50 mm)	mounting plate	cut-out front plate	top front plate	bottom front plate	Form 2 partition	upstream pad partition	Form 4 up. and down. pad partition
vertical mounting									
fixed Masterpact 	NT08 to NT10, fixed front connection, direct connection on Linergy vertical BB (8)	12	07622	07920 (2)	07803	07802	07286 (6)	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar (8)	14	07622	07920 (2)	07803	07804	07286 (6)	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	10	07622	07920 (2)	07802	07801		07376 x 2	07387 x 2 (7)
	rear connection, connection with transfer BB on vertical busbar	12	07622	07920 (2)	07801	07804	07286 (6)	07376 (3)	07387 (3)
	NT12 to NT16, fixed front connection, direct connection on Linergy vertical BB (8)	14	07622	07920 (2)	07804	07803	07286 (6)	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar (8)	15	07622	07920 (2)	07804	07804	07286 (6)	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	10	07622	07920 (2)	07802	07801		07376 x 2	07387 x 2 (7)
	rear connection, connection with transfer BB on vertical busbar	12	07622	07920 (2)	07801	07804	07286 (6)	07376 (3)	07387 (3)
	NT08 to NT10, draw-out front connection, direct connection on Linergy vertical BB	14	07622	07921(2)	07802	07802	07286 (6)	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	16	07622	07921(2)	07802	07804	07286 (6)	07376 (3)	07387 (3)
draw-out Masterpact 	rear connection, direct connection on vertical BB	10	07622	07921(2)				07376 x 2	07387 x 2 (7)
	rear connection, connection with transfer BB on vertical busbar	14	07622	07921(2)		07804	07286 (6)	07376 (3)	07387 (3)
	NT12 to NT16, draw-out front connection, direct connection on Linergy vertical BB	16	07622	07921(2)	07803	07803	07286 (6)	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	17	07622	07921(2)	07803	07804	07286 (6)	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	10	07622	07921(2)				07376 x 2	07387 x 2 (7)
	rear connection, connection with transfer BB on vertical busbar	14	07622	07921(2)		07804	07286 (6)	07376 (3)	07387 (3)

(1) To connect using four 300 mm² cables, install complementary pads on the additional vertical pads.

Set of 3 complementary pads, ref. 33644 + 07251. Set of 4 complementary pads, ref. 33645 + 07251.

In this case, count 2 additional modules and add a plain top front plate 07802.

(2) A door frame (reference 33718 for fixed device and 33857 for draw-out device) to be ordered with the device, is installed on the front plate, and ensures a degree of protection of IP40 at device level.

(3) In the floor standing enclosure Prisma P depths 800 and 1000 and Prisma PH depths 1000 and 1200, order 2 ref. (add. information on page 52).

(4) The link 07240 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming unit, use link 07245.

Connection of devices										Busbars layout in Prisma cubicle			
nb of poles	upstream terminals				downstream terminals			rear connections		connection possible			
	front connect. 	vert. connect. 	pads for cables 	vert. rear connect. 	front connect. 	pref. link / Linergy (Prisma P) connector + link 		horiz. 	vert. 	Prisma P D = 400 Prisma PH D = 500	Prisma P D = 600 Prisma PH D = 700	Prisma P D = 800 Prisma PH D = 1000	Prisma P D = 1000 Prisma PH D = 1200
ref. in <i>italics</i> : to be ordered with the device													
3P	■		33642 (1)		■	33642	07240 (4)						
4P	■		+ 47335 33643 (1) + 47336		■	33643	07241						
3P	■		33642 (1)		■								
4P	■		+ 47335 33643 (1) + 47336		■								
3P				■					■				
4P				■					■				
3P				■				■					
4P				■				■					
3P	■		33642		■	33642	07242 (5)						
4P	■		+ 47335 33643 + 47336		■	33643	07243						
3P	■		33642		■								
4P	■		+ 47335 33643 + 47336		■								
3P				■					■				
4P				■					■				
3P				■				■					
4P				■				■					
3P	■		33642 (1)		■	33642	07240(4) + 07244x3						
4P	■		33643 (1)		■	33643	07241 + 07244x4						
3P	■		33642 (1)		■								
4P	■		33643 (1)		■								
3P				■					■				
4P				■					■				
3P				■				■					
4P				■				■					
3P	■		33642		■	33642	07242(5) + 07244x3						
4P	■		33643		■	33643	07243 + 07244x4						
3P	■		33642		■								
4P	■		33643		■								
3P				■					■				
4P				■					■				

(5) The link 07242 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming unit, use link 07246.

(6) Ref. 07284 (instead of 07286) protect people against direct contact with live parts.

(7) Add one extra module and a bottom plain front plate 07801.

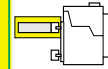
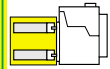
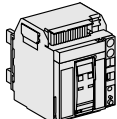
(8) Use an arc chute 33596 (3P), 33597 (4P).

● Optional connection on a complete busbar at the enclosure back.

■ Optional connection on a partial busbar at the enclosure back (under the incoming unit). In event of connection by busbar at the enclosure back, there is no form 2 partitioning as standard.

Masterpact NT08 to NT16

Busbar trunking connection (incoming from the top)

	Device	Installation of devices					Partition (optional)		
		vertical modules required (1 module = 50 mm)	mounting plate	cut-out front plate	top front plate	bottom front plate	Form 2 partition	upstream pad partition	Form 4 up. and down. pad partition
	vertical mounting								
fixed Masterpact 	NT08 to NT10, fixed								
	front connection, direct connection on Linergy vertical BB (7)	15	07622	07920 (2)	07806	07802	07286 (6) +07260	07376 (3) + 09502	07387 (3) + 09502
	front connection, connection with transfer BB on vertical busbar (7)	17	07622	07920 (2)	07806	07804	07286 (6) +07260	07376 (3) + 09502	07387 (3) + 09502
	rear connection, direct connection on vertical BB	13	07622	07920 (2)	07806			07376 x 2 + 09502	07387 x 2 (1) + 09502
	rear connection, connection with transfer BB on vertical busbar	17	07622	07920 (2)	07806	07804	07286 (6) +07260	07376 (3) + 09502	07387 (3) + 09502
	NT12 to NT16, fixed								
	front connection, direct connection on Linergy vertical BB (7)	16	07622	07920 (2)	07806	07803	07286 (6) +07260	07376 (3) + 09502	07387 (3) + 09502
	front connection, connection with transfer BB on vertical busbar (7)	17	07622	07920 (2)	07806	07804	07286 (6) +07260	07376 (3) + 09502	07387 (3) + 09502
draw-out Masterpact 	NT08 to NT10, draw-out								
	front connection, direct connection on Linergy vertical BB	17	07622	07921(2)	07805	07802	07286 (6) +07260	07376 (3) + 09502	07387 (3) + 09502
	front connection, connection with transfer BB on vertical busbar	19	07622	07921(2)	07805	07804	07286 (6) +07260	07376 (3) + 09502	07387 (3) + 09502
	rear connection, direct connection on vertical busbar	14	07622	07921(2)	07804			07376 x 2 + 09502	07387 x 2 (1) + 09502
	rear connection, connection with transfer BB on vertical busbar	18	07622	07921(2)	07804	07804	07286 (6) +07260	07376 (3) + 09502	07387 (3) + 09502
	NT12 to NT16, draw-out								
	front connection, direct connection on Linergy vertical BB	18	07622	07921(2)	07805	07803	07286 (6) +07260	07376 (3) + 09502	07387 (3) + 09502
	front connection, connection with transfer BB on vertical busbar	19	07622	07921(2)	07805	07804	07286 (6) +07260	07376 (3) + 09502	07387 (3) + 09502
	rear connection, direct connection on vertical BB	14	07622	07921(2)	07804			07376 x 2 + 09502	07387 x 2 (1) + 09502
	rear connection, connection with transfer BB on vertical busbar	18	07622	07921(2)	07804	07804	07286 (6) +07260	07376 (3) + 09502	07387 (3) + 09502

(1) Add one extra module and a bottom plain front plate 07801.

(2) A door frame (reference 33718 for fixed device and 33857 for draw-out device) to be ordered with the device, is installed on the front plate, and ensures a degree of protection of IP40 at device level.

(3) In the floor standing enclosure Prisma P depths 800 and 1000 and Prisma PH depths 1000 and 1200, order 2 ref. (add. information on page 52).

(4) The link 07240 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming unit, use link 07245.

Connection of devices										Busbars layout in Prisma cubicle			
nb of poles	upstream terminals				downstream terminals				rear connections horiz. vert.	connection possible			
	front connect.	horiz. rear connect.	CEP support	link CEP/ device	front connect.	pref. link / Linergy (Prisma P) connector + link				Prisma P D = 400 Prisma PH D = 500	connection possible Prisma P D = 600 Prisma PH D = 700	connection not possible Prisma P D = 800 Prisma PH D = 1000	Prisma P D = 1000 Prisma PH D = 1200
													
	ref. in <i>italics</i> : to be ordered with the device												
3P	■		09501	09504	■	33642	07240 (4)						
4P	■		09501	09504 +47335 09505 +47336	■	33643	07241						
3P	■		09501	09504 +47335	■								
4P	■		09501	09504 +47335 09505 +47336	■								
3P		■+09508	09501	09504 +47335				■					
4P		■+09508	09501	09504 +47335 09505 +47336				■					
3P		■+09508	09501	09504 +47335				■					
4P		■+09508	09501	09504 +47335 09505 +47336				■					
3P	■		09501	09506 +47335	■	33642	07242 (5)						
4P	■		09501	09506 +47335 09507 +47336	■	33643	07243						
3P	■		09501	09506 +47335	■								
4P	■		09501	09506 +47335 09507 +47336	■								
3P		■+09509	09501	09506 +47335				■					
4P		■+09509	09501	09506 +47335 09507 +47336				■					
3P		■+09509	09501	09506 +47335				■					
4P		■+09509	09501	09506 +47335 09507 +47336				■					
3P	■		09501	09504	■	33642	07240(4) + 07244x3						
4P	■		09501	09505	■	33643	07241 + 07244x4						
3P	■		09501	09504	■								
4P	■		09501	09505	■								
3P		■+09508	09501	09504				■					
4P		■+09508	09501	09505				■					
3P		■+09508	09501	09504				■					
4P		■+09508	09501	09505				■					
3P	■		09501	09506	■	33642	07242(5) + 07244x3						
4P	■		09501	09507	■	33643	07243 + 07244x4						
3P	■		09501	09506	■								
4P	■		09501	09507	■								
3P		■+09509	09501	09506				■					
4P		■+09509	09501	09507				■					
3P		■+09509	09501	09506				■					
4P		■+09509	09501	09507				■					

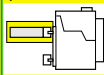
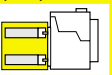
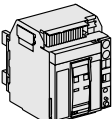
(5) The link 07242 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming unit, use link 07246.

(6) Ref. 07284 (instead of 07286) protect people against direct contact with live parts.

(7) Use an arc chute 33596 (3P), 33597 (4P).

● Optional connection on a complete busbar at the enclosure back.

■ Optional connection on a partial busbar at the enclosure back (under the incoming unit).
In event of connection by busbar at the enclosure back, there is no form 2 partitioning as standard.

	Device	Installation of devices					Partition (optional)		
		vertical modules required (1 module = 50 mm)	mounting plate	cut-out front plate	top front plate	bottom front plate	Form 2 partition	upstream pad partition	Form 4 up. and down. pad partition
	vertical mounting								
fixed Masterpact 	NT08 to NT10, fixed								
	front connection, direct connection on Linergy vertical BB (8)	12	07622	07920 (2)	07802	07803	07286 (6)	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar (8)	15	07622	07920 (2)	07805	07803	07286 (6)	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	10	07622	07920 (2)	07801	07802		07376 x 2	07387 x 2 (7)
	rear connection, connection with transfer BB on vertical busbar	13	07622	07920 (2)	07805	07801	07286 (6)	07376 (3)	07387 (3)
	NT12 to NT16, fixed								
	front connection, direct connection on Linergy vertical BB (8)	14	07622	07920 (2)	07803	07804	07286 (6)	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar (8)	16	07622	07920 (2)	07805	07804	07286 (6)	07376 (3)	07387 (3)
draw-out Masterpact 	NT08 to NT10, draw-out								
	front connection, direct connection on Linergy busbar BB	14	07622	07921(2)	07802	07802	07286 (6)	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	16	07622	07921(2)	07804	07802	07286 (6)	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	10	07622	07921(2)				07376 x 2	07387 x 2 (7)
	rear connection, connection with transfer BB on vertical busbar	14	07622	07921(2)	07804		07286 (6)	07376 (3)	07387 (3)
	NT12 to NT16, draw-out								
	front connection, direct connection on Linergy vertical BB	16	07622	07921(2)	07803	07803	07286 (6)	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	17	07622	07921(2)	07804	07803	07286 (6)	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	10	07622	07921(2)				07376 x 2	07387 x 2 (7)
	rear connection, connection with transfer BB on vertical busbar	14	07622	07921(2)	07804		07286 (6)	07376 (3)	07387 (3)

(1) To connect using four 300 mm² cables, install complementary pads on the additional vertical pads.

Set of 3 complementary pads, ref. 33644 + 07251. Set of 4 complementary pads, ref. 33645 + 07251.

In this case, count 2 additional modules and add a plain top front plate 07802.

(2) A door frame (reference 33718 for fixed device and 33857 for draw-out device) to be ordered with the device, is installed on the front plate, and ensures

a degree of protection of IP40 at device level.

(3) In the floor standing enclosure Prisma P depths 800 and 1000 and Prisma PH depths 1000 and 1200, order 2 ref. (add. information on page 52).

(4) The link 07240 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming

unit, use link 07245.

Connection of devices										Busbars layout in Prisma cubicle			
nb of poles	downstream terminals				upstream terminals				connection possible				
	front connect. 	vert. connect. 	pads for cables 	vert. rear connect. 	front connect. 	Linergy BB link (Prisma P) connector + link 	rear connection horiz. 	vert. 	Prisma P D = 400 Prisma PH D = 500	Prisma P D = 600 Prisma PH D = 700	Prisma P D = 800 Prisma PH D = 1000	Prisma P D = 1000 Prisma PH D = 1200	
ref. in italics: to be ordered with the device													
3P	■	33642 (1)			■	33642	07240 (4)						
4P	■	33643 (1)			■	33642 +47335 33643 +47336	07241						
3P	■	33642 (1)			■+47335								
4P	■	33643 (1)			■+47336								
3P				■				■					
4P				■				■					
3P				■				■+47335					
4P				■				■+47336					
3P	■	33642	33644 + 07251		■	33642	07242 (5)						
4P	■	33643	33645 + 07251		■	33642 +47335 33643 +47336	07243						
3P	■	33642	33644 + 07251		■+47335								
4P	■	33643	33645 + 07251		■+47336								
3P				■				■					
4P				■				■					
3P				■				■+47335					
4P				■				■+47336					
3P	■	33642 (1)			■	33642	07240(4) + 07244x3						
4P	■	33643 (1)			■	33643	07241 + 07244x4						
3P	■	33642 (1)			■								
4P	■	33643 (1)			■								
3P				■				■					
4P				■				■					
3P				■				■					
4P				■				■					
3P	■	33642	33644 + 07251		■	33642	07242(5) + 07244x3						
4P	■	33643	33645 + 07251		■	33643	07243 + 07244x4						
3P	■	33642	33644 + 07251		■								
4P	■	33643	33645 + 07251		■								
3P				■				■					
4P				■				■					
3P				■				■					
4P				■				■					

(5) The link 07242 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming unit, use link 07246.

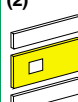
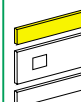
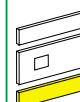
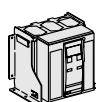
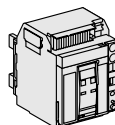
(6) Ref. 07284 (instead of 07286) protect people against direct contact with live parts.

(7) Add one extra module and a bottom plain front plate 07801.

(8) Use an arc chute 33596 (3P), 33597 (4P).

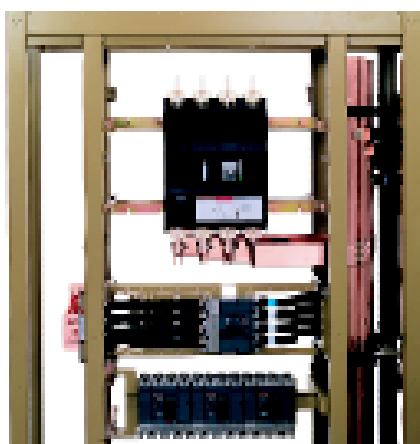
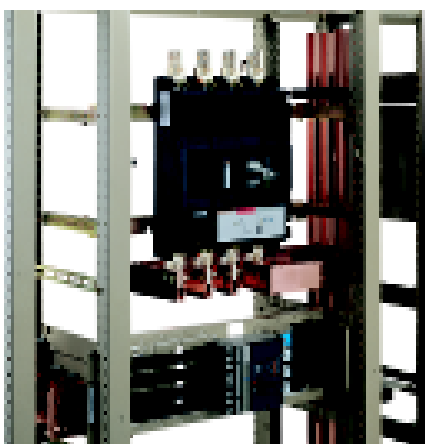
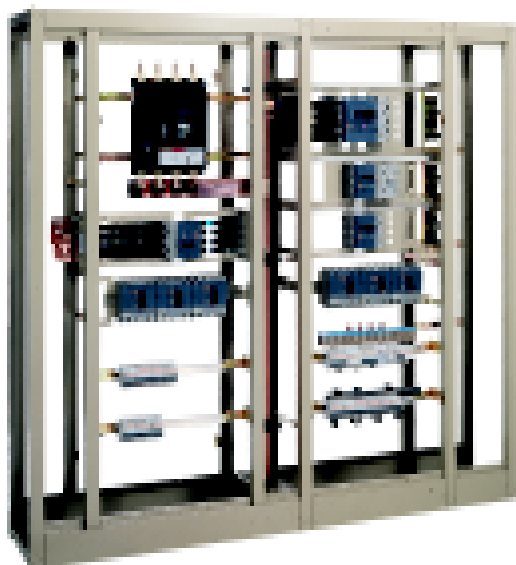
● Optional connection on a complete busbar at the enclosure back.

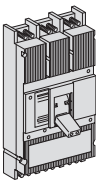
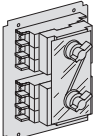
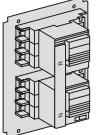
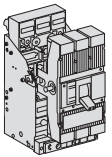
■ Optional connection on a partial busbar at the enclosure back (under the incoming unit). In event of connection by busbar at the enclosure back, there is no form 2 partitioning as standard.

Device		Module	Mounting plate and front plate			Busbars layout in Prisma cubicle				
		vertical modules required H = 50 mm	mounting plate 	cut-out front plate (2) 	top front plate 	bottom front plate 	 Prisma P D = 400 Prisma PH D = 500	connection possible  Prisma P D = 600 Prisma PH D = 700	Prisma P D = 800 Prisma PH D = 1000	Prisma P D = 1000 Prisma PH D = 1200
	vertical mounting									
	800/1600 A, fixed, rear connections									
	direct connection on BB, vertical rear connections	16	07622 x 2	07920 x 2	07802					
	connect. on horiz. transfer horiz. downstream rear connections (up. device) horiz. upstream rear connections (down. device)	21	07622 x 2	07920 x 2 + 07805	07802					
	800/1600 A, draw-out, rear connections									
	direct connection on BB, vertical rear connections	20	07622 x 2	07921 x 2						
	connect. on horiz. transfer horiz. downstream rear connections (up. device) horiz. upstream rear connections (down. device)	24	07622 x 2	07921 x 2 + 07804						

(1) Interlocking by cables. Install an arc chute cover on the fixed Masterpact NT.

(2) A door frame (ref. 33718 for fixed device and 33857 for drawout device) to be ordered with the device, is installed on the front plate, and ensures a degree of protection of IP40 at device level.



Device		
	description	horizontal or vertical mounting H = horizontal V = vertical
Compact circuit breaker 	C801 to C1251, fixed	
	rear connection + toggle	V
	rear connection with display of settings + toggle or rotary handle	V
	rear connection + motor mechanism	V
	front connection + toggle	V
	rear connection with display of settings + toggle or rotary handle	V
	front connection + motor mechanism	V
	front connection to horizontal transfer + toggle	V
	front connection with display of settings, connected to horizontal transfer + toggle or rotary handle	V
	front connection + motor mechanism connected to horizontal transfer	V
Visucompact circuit breaker manual source changeover 	C801 to C1251, fixed	toggle
	front connection	V
	C801/C1251, fixed, front connection	rotary handle
automatic source changeover  	C801/C1251, fixed, front connection	motor mechanism
	devices without controller	H
	controller only	
withdrawable Compact circuit breaker 	C801/C1001, withdrawable	all types of control
	N, H, NI edgewise terminals: up. and down. direct connection to busbars	V
	L edgewise terminals: up. and down. direct connection to busbars	V
	N, H, NI edgewise up. and flat down. terminals connected to horizontal transfer	V
	L edgewise up. and flat down. terminals connected to horizontal transfer	V
	C1251, withdrawable	all types of control
	N, H, NI edgewise terminals: up. and down. direct connection to busbars	V
	N, H, NI edgewise up. and flat down. terminals connected to horizontal transfer	V

(1) Devices equipped with rotary handle: replace the device front plate 46831 by 46832.

Withdrawable devices equipped with motor mechanism: replace the device front plate and Prisma front plate by Prisma front plate 07929.

These devices may only be installed in the following cubicles:

n Prisma P, depth = 800 or 1000 mm

n Prisma PH, depth = 1000 or 1200 mm.

	Module	Mounting plate and front plate				Busbars layout in Prisma cubicle				
	vertical modules required H = 50 mm	mounting plate 	barrier (without connection) 	cut-out front-plate 	top front plate 	bottom front plate 	 possible connection 	possible connection impossible connection		
							Prisma P, D = 400 Prisma PH, D = 500	Prisma P, D = 600 Prisma PH, D = 700	Prisma P, D = 800 Prisma PH, D = 1000	Prisma P D = 1000 Prisma PH, D = 1200
	11	07619	07281	07923					all busbar	
	11	07619	07281	07925 + 46831(1)						
	11	07619	07281	07924						
	13 (4)	07619	07281	07923	07801	07801				
	13 (4)	07619	07281	07925 + 46831(1)	07801	07801				
	13 (4)	07619	07281	07924	07801	07801				
	16 (2) (4)	07619	07281	07923	07801	07804				
	16 (2) (4)	07619	07281	07925 + 46831(1)	07801	07804				
	16 (2) (4)	07619	07281	07924	07801	07804				
	24	07619 x 2	07281+07260	07959	07805	07805				
	14	07619		07953					all busbar layouts permitted	
										
	14	07619			07804 x 3 + 07802				all busbar layouts permitted	
	4	07729		07949						
	13	07631	07281	07928 + 46831(1) + 46830	07801	07801			all busbar layouts permitted	
	13	07631	07281	07928 + 46831(1) + 46830	07801	07801				
	17 (3)	07631	07281	07928 + 46831(1) + 46830	07803	07803				
	17	07631	07281	07928 + 46831(1) + 46830	07803	07803				
	13	07631	07281	07928 + 46831(1) + 46830	07801	07801			all busbar layouts permitted	
	18 (3)	07631	07281	07928 + 46831(1) + 46830	07803	07804				

(2) Limiting circuit breakers (C801L and C1001L) are installed in the following cubicles:

n Prisma P, depth = 600 mm (min. depth)

n Prisma PH, depth = 700 mm (min. depth).

(3) In Prisma P, depth = 400 mm, this assembly may only be mounted behind the door or front plate support frame with power supply from the top on the top terminals.

(4) For Compact C1251, include an extra vertical module and add a plain bottom front plate 07801.

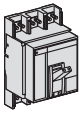
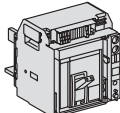
1 Can be connected to complete busbar set at rear of cubicle.

n Can be connected to partial busbar set at rear of cubicle (below incoming unit).

In the case of connection using busbars at the rear of the cubicle, no Form 2 partitioning is available in the catalogue.

Compact NS 630b/1600A

Cable connection (incoming from the top)

	Device	Installation of devices						Partition (option)		
		vertical modules required (1 module = 50 mm)	mounting plate	cut-out type of handle	front plate	top front plate	bottom front plate	Form 2 partition	upstream pad partition	up. and down. partition
	vertical mounting									
fixed Compact NS 	NS 630b/1000A, fixed									
	front connection, direct connection on Linergy vertical BB	12	07620	toggle rotative motor	07922 07920 (2)	07803	07802	07286	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	14	07620	toggle rotative motor	07922 07920 (2)	07803	07804	07286	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	8	07620	toggle rotative motor	07922 07920 (2)	07801			07376 x 2	07387 x 2 (6)
	rear connection, connection with transfer BB on vertical busbar	12	07620	toggle rotative motor	07922 07920 (2)	07801	07804	07286	07376 (3)	07387 (3)
	NS 1200/1600A, fixed									
	front connection, direct connection on Linergy vertical BB	14	07620	toggle rotative motor	07922 07920 (2)	07804	07803	07286	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	15	07620	toggle rotative motor	07922 07920 (2)	07804	07804	07286	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	8	07620	toggle rotative motor	07922 07920 (2)	07801			07376 x 2	07387 x 2 (6)
	rear connection, connection with transfer BB on vertical busbar	12	07620	toggle rotative motor	07922 07920 (2)	07801	07804	07286	07376 (3)	07387 (3)
draw-out Compact NS 	NS 630b/1000A, draw-out									
	front connection, direct connection on Linergy vertical BB	14	07622		07921 (2) +special collar	07802	07802	07286	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	16	07622		07921 (2) +special collar	07802	07804	07286	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	10	07622		07921 (2) +special collar				07376 x 2	07387 x 2 (6)
	rear connection, connection with transfer BB on vertical busbar	14	07622		07921 (2) +special collar		07804	07286	07376 (3)	07387 (3)
	NS 1200/1600A, draw-out									
	front connection, direct connection on Linergy vertical BB	16	07622		07921 (2) +special collar	07803	07803	07286	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	17	07622		07921 (2) +special collar	07803	07804	07286	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	10	07622		07921 (2) +special collar				07376 x 2	07387 x 2 (6)
	rear connection, connection with transfer BB on vertical busbar	14	07622		07921 (2) +special collar		07804	07286	07376 (3)	07387 (3)

(1) To connect using four 300 mm² cables, install complementary pads on the additional vertical pads.

Set of 3 complementary pads, ref. 33644. Set of 4 complementary pads, ref. 33645.

In this case, count 2 additional modules and add a plain top front plate 07802.

(2) A door frame (reference 33718 for fixed device and 33857 for draw-out device) to be ordered with the device, is installed on the front plate, and ensures a degree of protection of IP40 at device level.

(3) In the floor standing enclosure Prisma P depths 800 and 1000 and Prisma PH depths 1000 and 1200, order 2 ref. (add. information on page 52).

Connection of devices										Busbars layout in Prisma cubicle			
nb of poles	upstream terminals				downstream terminals				connection possible				
	front connect. 	vert. connect. 	pads for cables 	vert. rear connect. 	front connect. 	Linergy BB link (Prisma P) connector + link 	rear connections horiz.  vert. 	Prisma P D = 400 Prisma PH D = 500	Prisma P D = 600 Prisma PH D = 700	Prisma P D = 800 Prisma PH D = 1000	Prisma P D = 1000 Prisma PH D = 1200		
ref. in italics: to be ordered with the device													
3P 4P	n n	<i>33642 (1)</i> + 33596 <i>33643 (1)</i> + 33597			n n	<i>33642</i> <i>33643</i>	<i>07240 (4)</i> <i>07241</i>						
3P 4P	n n	<i>33642 (1)</i> + 33596 <i>33643 (1)</i> + 33597			n n	n							
3P 4P				n n				n n					
3P 4P				n n				n n					
3P 4P	n n	<i>33642 + 33596</i> <i>33643 + 33597</i>	<i>33644 + 07251</i> <i>33645 + 07251</i>		n n	<i>33642</i> <i>33643</i>	<i>07242 (5)</i> <i>07243</i>						
3P 4P	n n	<i>33642 + 33596</i> <i>33643 + 33597</i>	<i>33644 + 07251</i> <i>33645 + 07251</i>		n n	n							
3P 4P				n n				n n					
3P 4P				n n				n n					
3P 4P	n n	<i>33642 (1)</i> <i>33643 (1)</i>			n n	<i>33642</i> n	<i>07240(4) + 07244x3</i> <i>33643</i> <i>07244x4</i>	<i>07241 +</i>					
3P 4P	n n	<i>33642 (1)</i> <i>33643 (1)</i>			n n	n							
3P 4P				n n				n n					
3P 4P				n n				n n					
3P 4P	n n	<i>33642</i> <i>33643</i>	<i>33644 + 07251</i> <i>33645 + 07251</i>		n n	<i>33642</i> <i>33643</i>	<i>07242(5) + 07244x3</i> <i>07243 + 07244x4</i>						
3P 4P	n n	<i>33642</i> <i>33643</i>	<i>33644 + 07251</i> <i>33645 + 07251</i>		n n	n							
3P 4P				n n				n n					
3P 4P				n n				n n					

(4) The link 07240 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming unit, use link 07245.

(5) The link 07242 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming unit, use link 07246.

(6) Add one extra module and a bottom plain front plate 07801.

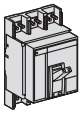
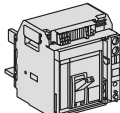
1 Optional connection on a complete busbar at the enclosure back.

n Optional connection on a partial busbar at the enclosure back (under the incoming unit).

In event of connection by busbar at the enclosure back, there is no form 2 partitioning as standard.

Compact NS 630b/1600A

Busbar trunking connection (incoming from the top)

	Device	Installation of devices						Partition (option)		
		vertical modules required (1 module = 50 mm)	mounting plate	cut-out type of handle	front plate	top front plate	bottom front plate	Form 2 partition	upstream pad partition	up. and down. partition
	vertical mounting									
fixed Compact NS 	NS 630b/1000A, fixed									
	front connection, direct connection on Linergy vertical BB	15	07620	toggle rotative motor	07922 07920 (2)	07806	07802	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502
	front connection, connection with transfer BB on vertical busbar	17	07620	toggle rotative motor	07922 07920 (2)	07806	07804	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502
	rear connection, direct connection on vertical BB	13	07620	toggle rotative motor	07922 07920 (2)	07806			07376 x 2 + 09502	07387 x 2 (1) + 09502
	rear connection, connection with transfer BB on vertical busbar	17	07620	toggle rotative motor	07922 07920 (2)	07806	07804	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502
	NS 1200/1600A, fixed									
	front connection, direct connection on Linergy vertical BB	16	07620	toggle rotative motor	07922 07920 (2)	07806	07803	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502
	front connection, connection with transfer BB on vertical busbar	17	07620	toggle rotative motor	07922 07920 (2)	07806	07804	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502
	rear connection, direct connection on vertical BB	13	07620	toggle rotative motor	07922 07920 (2)	07806			07376 x 2 + 09502	07387 x 2 (1) + 09502
	rear connection, connection with transfer BB on vertical busbar	17	07620	toggle rotative motor	07922 07920 (2)	07806	07804	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502
draw-out Compact NS 	NS 630b/1000A, draw-out									
	front connection, direct connection on Linergy vertical BB	17	07622		07921 (2) + special collar	07805	07802	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502
	front connection, connection with transfer BB on vertical busbar	19	07622		07921 (2) + special collar	07805	07804	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502
	rear connection, direct connection on vertical BB	14	07622		07921 (2) + special collar	07804			07376 x 2 + 09502	07387 x 2 (1) + 09502
	rear connection, connection with transfer BB on vertical busbar	18	07622		07921 (2) + special collar	07804	07804	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502
	NS 1200/1600A, draw-out									
	front connection, direct connection on Linergy vertical BB	18	07622		07921 (2) + special collar	07805	07803	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502
	front connection, connection with transfer BB on vertical busbar	19	07622		07921 (2) + special collar	07805	07804	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502
	rear connection, direct connection on vertical BB	14	07622		07921 (2) + special collar	07804			07376 x 2 + 09502	07387 x 2 (1) + 09502
	rear connection, connection with transfer BB on vertical busbar	18	07622		07921 (2) + special collar	07804	07804	07286 + 07260	07376 (3) + 09502	07387 (3) + 09502

(1) Add one extra module and a bottom plain front plate 07801.

(2) A door frame (reference 33718 for fixed device and 33857 for draw-out device) to be ordered with the device, is installed on the front plate, and ensures a degree of protection of IP40 at device level.

(3) In the floor standing enclosure Prisma P depths 800 and 1000 and Prisma PH depths 1000 and 1200, order 2 ref. (add. information on page 52).

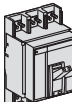
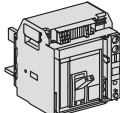
Connection of devices										Busbars layout in Prisma cubicle				
nb of poles	upstream terminals				downstream terminals				rear connections horiz.	vert.	connection possible connection not possible			
	front connect. 	horiz. rear connect. 	CEP support 	link CEP/ device 	front connect. 	pref. link / Linergy (Prisma P) connector + link 					Prisma P D = 400 Prisma PH D = 500	Prisma P D = 600 Prisma PH D = 700	Prisma P D = 800 Prisma PH D = 1000	Prisma P D = 1000 Prisma PH D = 1200
ref. in italics: to be ordered with the device														
3P 4P	n n		09501 09501	09504 + 33596 09505 + 33597	n n	33642 33643	07240 (4) 07241							
3P 4P	n n		09501 09501	09504 + 33596 09505 + 33597	n n									
3P 4P		n+09508 n+09508	09501 09501	09504 + 33596 09505 + 33597				n n						
3P 4P		n+09508 n+09508	09501 09501	09504 + 33596 09505 + 33597				n n						
3P 4P	n n		09501 09501	09506 + 33596 09507 + 33597	n n	33642 33643	07242 (5) 07243							
3P 4P	n n		09501 09501	09506 + 33596 09507 + 33597	n n									
3P 4P		n+09509 n+09509	09501 09501	09506 + 33596 09507 + 33597				n n						
3P 4P		n+09509 n+09509	09501 09501	09506 + 33596 09507 + 33597				n n						
3P 4P	n n		09501 09501	09504 09505	n n	33642 33643	07240(4)+ 07244x3 07241 + 07244x4							
3P 4P	n n		09501 09501	09504 09505	n n									
3P 4P		n+09508 n+09508	09501 09501	09504 09501	09505			n		n				
3P 4P		n+09508 n+09508	09501 09501	09504 09501	09505			n n						
3P 4P	n n		09501 09501	09506 09507	n n	33642 33643	07242(5)+ 07244x3 07243 + 07244x4							
3P 4P	n n		09501 09501	09506 09507	n n									
3P 4P		n+09509 n+09509	09501 09501	09506 09501	09507			n		n				
3P 4P		n+09509 n+09509	09501 09501	09506 09501	09507			n n						

(4) The link 07240 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming unit, use link 07245.
(5) The link 07242 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming unit, use link 07246.

1 Optional connection on a complete busbar at the enclosure back.
n Optional connection on a partial busbar at the enclosure back (under the incoming unit).
In event of connection by busbar at the enclosure back, there is no form 2 partitioning as standard.

Compact NS 630b/1600A

Cable connection (incoming from the bottom)

	Device	Installation of devices						Partition (option)		
		vertical modules required (1 module = 50 mm)	mounting plate	cut-out type of handle	front plate	top front plate	bottom front plate	Form 2 partition	upstream pad partition	up./down. partition (Form 4)
	vertical mounting									
fixed Compact NS 	NS 630b/1000A, fixed									
	front connection, direct connection on Linergy vertical BB	12	07620	toggle rotative motor	07922 07920 (2)	07802	07803	07286	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	14	07620	toggle rotative motor	07922 07920 (2)	07804	07803	07286	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	8	07620	toggle rotative motor	07922 07920 (2)		07801		07376 x 2	07387 x 2 (6)
	rear connection, connection with transfer BB on vertical busbar	12	07620	toggle rotative motor	07922 07920 (2)	07804	07801	07286	07376 (3)	07387 (3)
	NS 1200/1600A, fixed									
	front connection, direct connection on Linergy vertical BB	14	07620	toggle rotative motor	07922 07920 (2)	07803	07804	07286	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	15	07620	toggle rotative motor	07922 07920 (2)	07804	07804	07286	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	8	07620	toggle rotative motor	07922 07920 (2)		07801		07376 x 2	07387 x 2 (6)
	rear connection, connection with transfer BB on vertical busbar	12	07620	toggle rotative motor	07922 07920 (2)	07804	07801	07286	07376 (3)	07387 (3)
draw-out Compact NS 	NS 630b/1000A, draw-out									
	front connection, direct connection on Linergy vertical BB	14	07622		07921 (2) +special collar	07802	07802	07286	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	16	07622		07921 (2) +special collar	07804	07802	07286	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	10	07622		07921 (2) +special collar				07376 x 2	07387 x 2 (6)
	rear connection, connection with transfer BB on vertical busbar	14	07622		07921 (2) +special collar	07804		07286	07376 (3)	07387 (3)
	NS 1200/1600A, draw-out									
	front connection, direct connection on Linergy vertical BB	16	07622		07921 (2) +special collar	07803	07803	07286	07376 (3)	07387 (3)
	front connection, connection with transfer BB on vertical busbar	17	07622		07921 (2) +special collar	07804	07803	07286	07376 (3)	07387 (3)
	rear connection, direct connection on vertical BB	10	07622		07921 (2) +special collar				07376 x 2	07387 x 2 (6)
	rear connection, connection with transfer BB on vertical busbar	14	07622		07921 (2) +special collar	07804		07286	07376 (3)	07387 (3)

(1) To connect using four 300 mm² cables, install complementary pads on the additional vertical pads.

Set of 3 complementary pads, ref. 33644. Set of 4 complementary pads, ref. 33645.

In this case, count 2 additional modules and add a plain top front plate 07802.

(2) A door frame (reference 33718 for fixed device and 33857 for draw-out device) to be ordered with the device, is installed on the front plate, and ensures a degree of protection of IP40 at device level.

(3) In the floor standing enclosure Prisma P depths 800 and 1000 and Prisma PH depths 1000 and 1200, order 2 ref. (add. information on page 52).

Connection of devices										Busbars layout in Prisma cubicle			
nb of poles	downstream terminals				upstream terminals				rear connections horiz. vert.	connection possible			
	front connect.	vert. connect.	pads for cables	vert. rear connect.	front connect.	Linergy BB link (Prisma P) connector + link				Prisma P D = 400 Prisma PH D = 500	connection possible Prisma P D = 600 Prisma PH D = 700	connection not possible Prisma P D = 800 Prisma PH D = 1000	Prisma P D = 1000 Prisma PH D = 1200
													
	<i>ref. in italics: to be ordered with the device</i>												
3P 4P	n n	<i>33642 (1)</i> <i>33643 (1)</i>			n n	<i>33642 + 33596</i> <i>33643 + 33597</i>	<i>07240 (4)</i> <i>07241</i>						
3P 4P	n n	<i>33642 (1)</i> <i>33643 (1)</i>				<i>n+33596</i> <i>n+33597</i>							
3P 4P				n n					n n				
3P 4P				n n				n n					
3P 4P	n n	<i>33642</i> <i>33643</i>	<i>33644 + 07251</i> <i>33645 + 07251</i>		n n	<i>33642 + 33596</i> <i>33643 + 33597</i>	<i>07242 (5)</i> <i>07243</i>						
3P 4P	n n	<i>33642</i> <i>33643</i>	<i>33644 + 07251</i> <i>33645 + 07251</i>		<i>n+33596</i> <i>n+33597</i>								
3P 4P				n n					n n				
3P 4P				n n				n n					
3P 4P	n n	<i>33642 (1)</i> <i>33643 (1)</i>			n	<i>33642</i> n	<i>07240(4) + 07244x3</i> <i>33643</i> <i>07244x4</i>	<i>07241 +</i>					
3P 4P	n n	<i>33642 (1)</i> <i>33643 (1)</i>				n							
3P 4P				n n					n n				
3P 4P				n n				n n					
3P 4P	n n	<i>33642</i> <i>33643</i>	<i>33644 + 07251</i> <i>33645 + 07251</i>		n n	<i>33642</i> <i>33643</i>	<i>07242(5) + 07244x3</i> <i>07243 + 07244x4</i>						
3P 4P	n n	<i>33642</i> <i>33643</i>	<i>33644 + 07251</i> <i>33645 + 07251</i>		n n								
3P 4P				n n					n n				
3P 4P				n n				n n					

(4) The link 07240 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming unit, use link 07245.

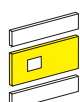
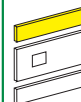
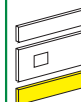
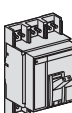
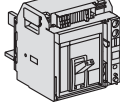
(5) The link 07242 is used when the Linergy busbar is installed to the right of the incoming unit. When the Linergy busbar is installed to the left of the incoming unit, use link 07246.

(6) Add one extra module and a top plain front plate 07801.

1 Optional connection on a complete busbar at the enclosure back.

n Optional connection on a partial busbar at the enclosure back (under the incoming unit).

In event of connection by busbar at the enclosure back, there is no form 2 partitioning as standard.

	Device	Module	Mounting plate and front plate			Busbars layout in Prisma cubicle			
			mounting plate	cut-out front plate	top front plate	bottom front plate	connection possible	connection not possible	
	vertical mounting	vertical modules required H = 50 mm					Prisma P D = 400 Prisma PH D = 500	Prisma P D = 600 Prisma PH D = 700	Prisma P D = 800 Prisma PH D = 1000 Prisma P D = 1000 Prisma PH D = 1200
fixed device (1) (2) 	630b/1600 A, fixed, rear connections								
	direct connection on BB, vertical rear connections								
	connect. on horiz. transfer horiz. downstream rear connections (up. device) horiz. upstream rear connections (down. device)								
draw-out device (1) 	630b/1600 A, draw-out, rear connections								
	direct connection on BB, vertical rear connections	20	07622 x 2	07921 x 2					
	connect. on horiz. transfer horiz. downstream rear connections (up. device) horiz. upstream rear connections (down. device)	24	07622 x 2	07921 x 2 + 07804					

(1) Interlocking by cables.

(2) Install an arc chute cover on the fixed Compact NS.

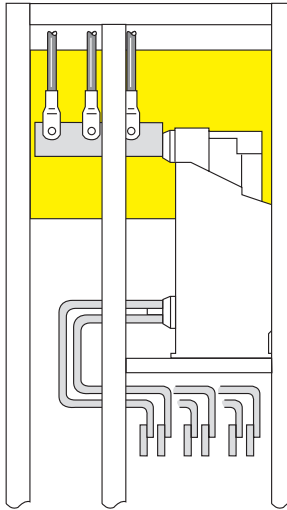
Partitioning of the supply to an incoming unit

Presentation

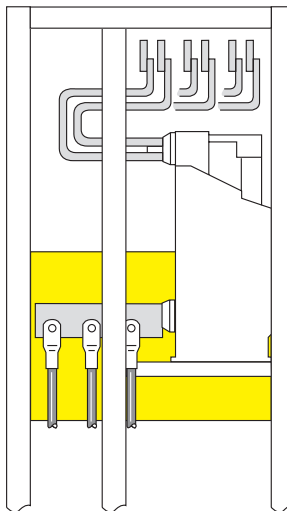
The partitions make it possible for operating personnel to work in complete safety on an electrical switchboard when the device is in the "off" position.

They may be fitted to Compact C801/1251 and Masterpact devices in Prisma P and PH cubicles.

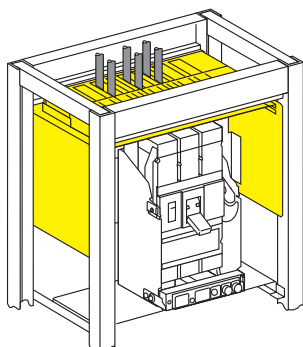
They represent a ready-made solution that takes into account the space required to install current transformers. All the components have been validated with Merlin Gerin circuit breakers on Prisma P switchboards. The parts that may accidentally come into contact with live parts are made of insulating materials.



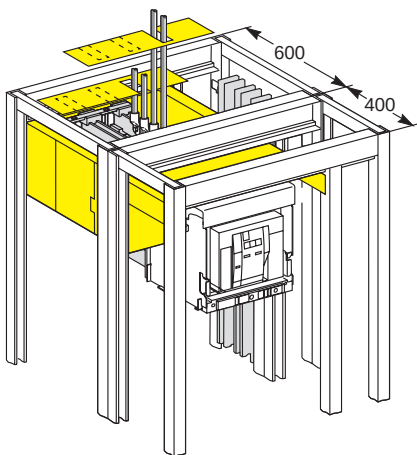
Partitioning of the supply (top terminals) on a withdrawable Compact circuit breaker in a Prisma P cubicle, D = 600 mm, supplied from above.



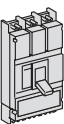
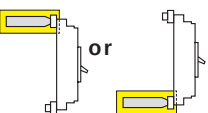
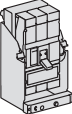
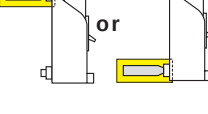
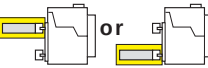
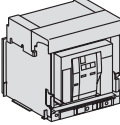
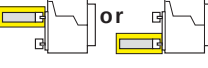
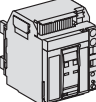
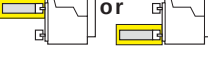
Partitioning of the supply (bottom terminals) on a withdrawable Compact circuit breaker in a Prisma P cubicle, D = 600 mm, supplied from below.



Partitioning of the top terminals on a withdrawable Compact C801 circuit breaker.

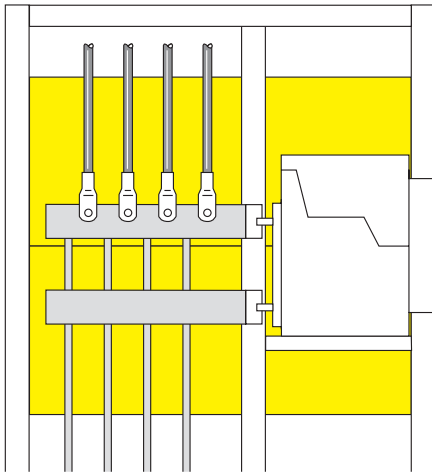


Partitioning of the top terminals on a draw-out Masterpact NW circuit breaker.

Device	Type of partition	Part numbers			
		for Prisma P cubicle:		for Prisma PH cubicle:	
		D = 400	D = 600	D = 800	D = 1000
		D = 500	D = 700	D = 1000	D = 1200
Compact C fixed 	 or  (1)	07375	07375	07375 + 07398	07375 + 07398
Compact C withdrawable 	 or  (1)	07377	07377	07377 + 07398	07377 + 07398
Masterpact NW fixed 	800/1600/2000/3200 A  or 		07380	07380 + 07398	07380 + 07398
Masterpact NW draw-out 	800/1600 A 		07382 + 07397	07382 + 07398	07382 + 07398
				07383 + 07398	07383 + 07398
				07383 + 07398	07383 + 07398
	2000 A 		07382 + 07397	07382 + 07398 + 07397	07382 + 07398 + 07397
				07383 + 07398	07383 + 07398
					07382 + 07398 + 07397 x 2
					07383 + 07398 + 07397
	2500/3200 A 				07382 + 07398 + 07397 x 2
					07383 + 07398 + 07397
Masterpact NT fixed 	 or 	07376	07376	07376 x 2	07376 x 2
Masterpact NT draw-out 	 or 	07376	07376	07376 x 2	07376 x 2

(1) Compact type L circuit breakers cannot be supplied via the bottom terminals.

Partitioning of the supply to an incoming unit and its connection with the busbars



This type of partitioning is installed in double-depth cubicles. It provides Form 4 partitioning of the incoming device. Schneider recommends using this partitioning with the Form 2 partitioning.

■ for Prisma P cubicle, depth = 400/600 and Prisma PH cubicle, depth = 500/700.

device		partition cat. No
Masterpact NT	fixed	07387
NT06/16	draw-out	07387

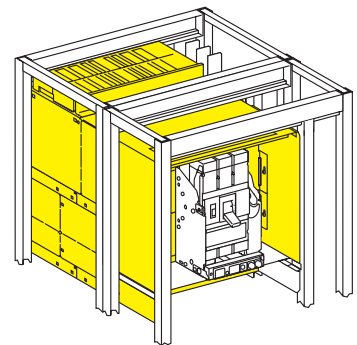
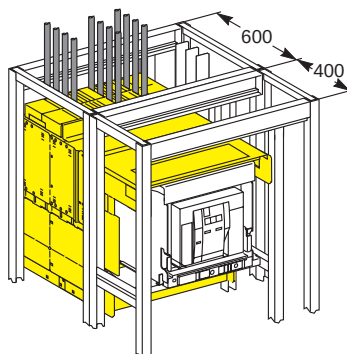
■ pour armoire Prisma P, profondeur 800/1000 et Prisma PH, profondeur 1000/1200.

device		partition cat. No
Compact	fixed	07391
C801/1251	withdrawable	07392
Masterpact NT	fixed	07387 x 2
NT06/16	draw-out	07387 x 2
Masterpact NW	fixed	07393
NW08/32	draw-out	07394

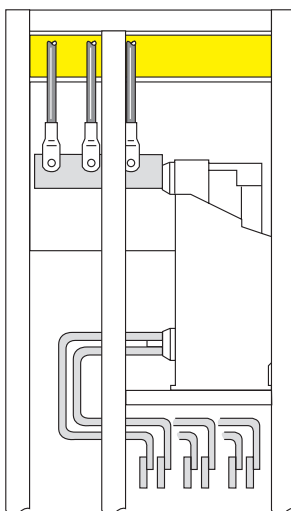
The partitioning may be extended upwards (see below).

Installation characteristics

- supply cables are connected to the terminal extension bars at the rear of the device
- to facilitate connection and save as much space as possible, the circuit breaker is connected:
 - ☐ via the top terminals, if cables enter from the top
 - ☐ via the bottom terminals, if cables enter from the bottom
 - ☐ and, in all cases, directly to the terminal extension bars, without passing through the lateral partitions
- essential information is provided in the instructions supplied with mounting plates to optimise the layout of connections at the rear of Masterpact circuit breakers
- partitioning is possible with vertical busbars located to the left or right of the incoming device.



Partitioning extension (height 100 mm)



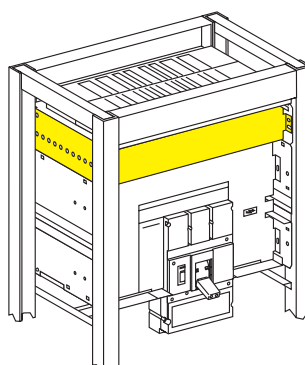
The extension increases the partitioned space around the supply terminals on Compact C801/1251 and Masterpact devices. It can be added to the basic partitioning used for:

- the supply to an incoming unit
- the supply to an incoming unit and its connection with the busbars.

It is suitable for:

- single-depth cubicles
- double-depth cubicles.

description	depth (mm)	partitioning extension
Prisma P	400/600	07397
	800/1000	07397 x 2
Prisma PH	500/700	07397
	1000/1200	07397 x 2





Digipact
PM100 power meter and CLS150 indication and local control
module on the front panel of the switchboard.



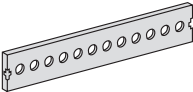
Vigilhom system



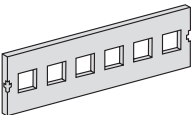
Power logic

Special front plates

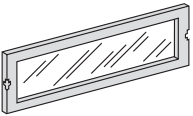
front plate for round indication lights and push-buttons	cat. No.
(2 mod.)	07894



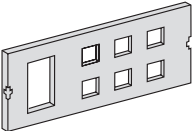
front plate for 72 x 72 mm meters	cat. No.
round body (3 mod.)	07896
square body (3 mod.)	07898



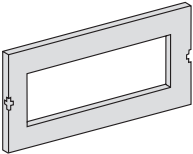
transparent front plate	cat. No.
(4 mod.)	07890
(6 mod.)	07892



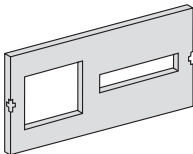
front plate for Vigilohtm system	cat. No.
(4 mod.)	07893



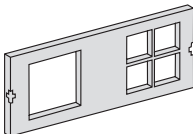
(5 mod.)	07973
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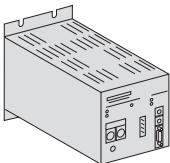
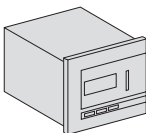
(5 mod.)	07972
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front plate for Digipact	cat. No.
(4 mod.)	07891



Digipact
DC150 data concentrator and SC150 indication and control
interface SC150 mounted on a slotted plate at the rear of the
switchboard.

	Device		Installation of device				Form 2
	description	number per row	vertical modules required (H = 50 mm)	mounting plate or rail	cut-out front plate	plain front plate	barrier without connection
Digipact  	control and monitoring DC150 data concentrator SC150 indication and control interface mounted inside cubicle behind plain front plate		3	07660 (1)		07803	07263
	metering, control and indications (mounted on front panel) six 72 x 72 mm devices (CLS150, UM100, IM100)	6	3		07898		07260
	144 x 144 mm PM power meter + four 72 x 72 mm devices		4		07891		07260
Vigilohm system 	control and monitoring XM200 or XM300C + 3 XD301 or + 2 XD312 or + 1 XD301 and 1 XD312		5	07642 + 07619	07972		07264 x 2
	XML 308/316 or XM300C + 2 interfaces of type : XLI300 or XTU300 or XAS or XD or XD 308C (all combinations possible) XM300C or XML308/316 + 1 XL308 or 1 XL316		5	07643 + 07619	07973		07264 x 2
metering, control, monitoring 	Vigilohm TR22A/AH, TR9	1 TR + 6 NE 72 x 72	4		07893		07260
	Multi 9 type meter		2	07603	07812		07263
	72 x 72 NE meter round body	6	3		07896		07260
	square body	6	3		07898		07260
	pushbuttons and 22.2 mm Ø indic. lamps on front plate with knock-outs	12	2		07894		07260
	on blanking plate 07347 (72 x 72) (2)	12	3		07896		07260
Digipact display modules 	DMB 300	1	3		07882		
	DMC 300	1	4		07883		
Power logic 	circuit monitor CM 2150/2450	1	7		07880		

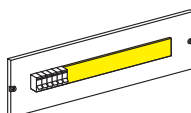
(1) Front plate **07660** can also be mounted vertically in a Prisma P cubicle duct of width 200 mm.

(2) Set of punches cat. No. **03112** (for holes in blanking plate **07347**) including Ø 22.2 mm and □ 46 mm.

Accessories

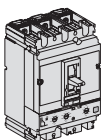
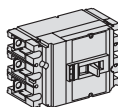
Blanking plates

See page 125





Compact circuit breaker



Device			
		horizontal or vertical mounting H = horiz. V = vert.	number per row
400 to 630 A, fixed or plug-in		front or rear connected (mounting plate for standard use)	
Compact NS400/630 NB400/600	toggle	H	1 3P 1 4P
	rotary handle	H	1
	motor mechanism	H	1
Vigicompact NS400/630	toggle	H	1 3P 1 4P
	rotary handle (1)	H	1
	motor mechanism (3)	H	1
400 to 630 A, fixed or plug-in		front or rear connected (wide mounting plate for connection with terminal spreaders)	
Compact NS400/630 NB400/600	toggle	H	1
	rotary handle	H	1
	motor mechanism	H	1
Vigicompact NS400/630	toggle	H	1
	rotary handle (1)	H	1
	motor mechanism (3)	H	1
400 to 630 A, fixed or plug-in		front or rear connected	
Compact NS400/NB400	toggle	V	1
	rotary handle	V	1
Compact NS630/NB600	toggle	V	1
	rotary handle	V	1
Vigicompact NS400	toggle	V	1
	rotary handle	V	1
Vigicompact NS630	toggle	V	1
	rotary handle	V	1
Compact, Vigicompact NS400	toggle	V	1
	rotary handle	V	1
Compact, Vigicompact NS630	toggle	V	1
	rotary handle	V	1

(1) For access to the Vigi module test button, order the special collar 29285 with the circuit breaker.

(2) Connecting horizontal devices:

The prefabricated connection for horizontally mounted devices can be installed on front-connected circuit breakers only, whatever the type of operating mechanism (except for the motor mechanism for the NS400/630) in Prisma P cubicles with Linergy busbars. For all other cases, including connection to conventional busbars (flat bars) or connection in a Prisma PH cubicle, use the barrier without connection (see opposite).

(3) No access to the Vigi module test button.

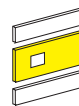
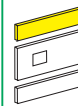
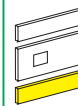
Connecting devices to the busbars



Fixed, horizontal, front-connected Compact NS circuit breaker, connected to the busbars using the prefabricated connection.



The connection is supplied with a barrier that secures the conductors and provides Form 2 separation.

Module		Mounting plate and connection to busbars					Front plate			
vertical modules required H = 50 mm	fixed device mounting plate 	upstream connection (2) with barrier 	barrier without connection 	plug-in device mounting plate 	upstream connection with barrier 	barrier without connection 	cut-out front plate 	top front plate 	bottom front plate 	
4	07734	07234		07734		07274	07916			
5	07735	07235		07735		07275	07975			
5	07735	07235		07735		07275	07976			
5	07735		07275	07735		07275	07976			
4	07734	07234		07734		07274	07916			
5	07735	07235		07735		07275	07975			
5	07735	07235		07735		07275	07976			
5	07735		07275	07735		07275	07976			
6	07736	07235		07736		07275	07977			
6	07736	07235		07736		07275	07978			
6	07736		07275	07736		07275	07978			
6	07736	07235		07736		07275	07977			
6	07736	07235		07736		07275	07978			
6	07736		07275	07736		07275	07978			
wide mounting plate for connection with terminal spreaders										
11	07750						07834	07802		
11	07750						07835	07802		
13	07750						07834	07803	07801	
13	07750						07835	07803	07801	
13	07750						07834	07802	07802	
13	07750						07835	07802	07802	
15	07750						07834	07803	07803	
15	07750						07835	07803	07803	
12				07750			07834	07802	07801	
12				07750			07835	07802	07801	
14				07750			07834	07803	07802	
14				07750			07835	07803	07802	

Barrier without connection



A metal barrier enabling:

- the passage and support of connections (not supplied) to a horizontal Compact NS400/630 circuit breaker
- implementation of Form 2 separation.

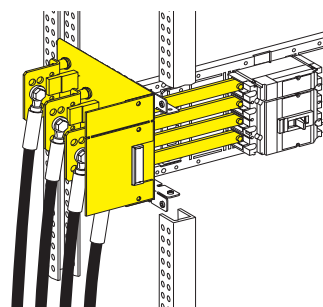
It is used when the prefabricated connection and barrier are not available or for certain switchboard configurations such as:

- connection to vertical busbars (flat bars) in a Prisma P cubicle
- connection to any vertical busbars (flat bars or Linergy busbars) in a Prisma PH cubicle.

choice of barrier without connection		cat. No.
NS400/630	3P	07274
	4P	07275

Downstream connection

In duct via special assembly



Four-pole connection assembly making device connections possible in the duct.
See page 117

Direct using lugs

Connection of Compact NS400/630 circuit breakers using cables 240 mm², with crimped lugs.

Two solutions:

- small lugs (for direct connection to the device terminals)
- For 3P device.

cable cross-section	set of 3
240 mm ²	32500
300 mm ²	32502

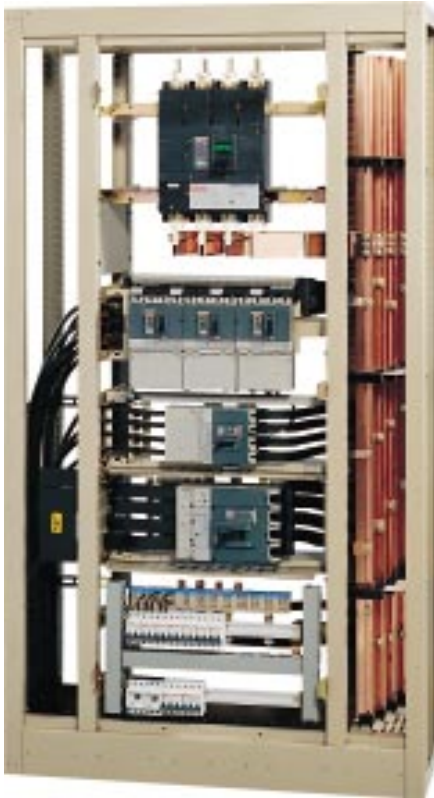
□ for 4P device

cable cross-section	set of 4
240 mm ²	32501
300 mm ²	32503

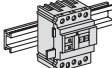
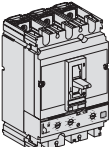
■ normal lugs: use 52.5 mm pitch spreaders

type of device	1 set of terminal spreaders
3P device	32490
4P device	32491

Compact NS 100/250, NB 225 NSA 125/160, C100E



Fixed, vertical Compact NS100/250 circuit breakers connected to the busbars by the Polycompact distribution block. The distribution block is supplied with prefabricated connections and a barrier that secures the conductors and implements Form 2 separation.

Device			
		horizontal or vertical mounting H = horiz. V = vert.	number per row
Compact circuit breaker 	125 A, fixed, toggle	front connected	
	NSA125/160	V	4 3P, 3 4P
	Vigi NSA125/160	V	2 3P, 1 4P
Compact circuit breaker 	100 to 160 A, fixed or plug-in	front or rear connected	
	C100E	H	1
		V	4
	NB50 3P	V	5
	NB100 3P	V	4
	Compact toggle	H	1 2P, 1 3P
		H	1 4P
		V	4 2P, 4 3P, 3 4P
		H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
	rotary handle	H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
		H	1 2P, 1 3P
		H	1 4P
		V	4 2P, 4 3P, 3 4P
	motor mechanism	H	1 2P, 1 3P
		H	1 4P
		V	4 2P, 4 3P, 3 4P
		H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
	Vigicompact toggle	H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
		H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
	rotary handle (1)	H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
		H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
	motor mechanism (1)	H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
		H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
	250 A, fixed or plug-in	front or rear connected	
	Compact toggle	H	1 2P, 1 3P
		H	1 4P
		V	4 2P, 4 3P, 3 4P
		H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
	rotary handle	H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
		H	1 2P, 1 3P
		H	1 4P
		V	4 2P, 4 3P, 3 4P
	motor mechanism	H	1 2P, 1 3P
		H	1 4P
		V	4 2P, 4 3P, 3 4P
		H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
	Vigicompact toggle	H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
		H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
	rotary handle or motor mechanism (1)	H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
		H	1 2P, 1 3P
		H	1 4P
		V	3 2P, 3 3P, 3 4P
	combinations (3), NS100/160/250, fixed or plug-in	front or rear connected	
	Compact toggle/rotary handle	V	4 2P, 4 3P, 3 4P
		V	4 2P, 4 3P, 3 4P
	motor mechanism	V	3 2P, 3 3P, 3 4P
		V	3 2P, 3 3P, 3 4P
	Vigicompact toggle	V	3 2P, 3 3P, 3 4P
		V	3 2P, 3 3P, 3 4P
	rotary handle	V	3 2P, 3 3P, 3 4P
		V	3 2P, 3 3P, 3 4P
	motor mechanism (1)	V	3 2P, 3 3P, 3 4P
		V	3 2P, 3 3P, 3 4P

(1) For access to the Vigi module test button, order the special collar **29285** with the circuit breaker.

(2) Connecting horizontal devices:

The connection for horizontally mounted devices can be installed only on front-connected circuit breakers, whatever the type of operating mechanism, and in Prisma P cubicles with Linergy busbars. For all other cases, including connection to conventional busbars (flat bars) or connection in a Prisma PH cubicle, use flexible copper straps (see page 102) and the barrier without connection (see opposite).

Connecting vertical front-connected devices (Polycompact):

In Prisma P cubicles, Polycompact distribution blocks **07013** and **07014** may only be connected to Linergy busbars. In Prisma PH cubicles, connections must always be made using Polycompact distribution blocks **07012** and **07015** regardless of the type of busbar, supplied without prefabricated connections and without barriers.

	Module	Mounting plate and connection to busbars					Front plate		
		fixed device mounting plate 	upstream connection (2) with barrier 	plug-in device mounting plate 	upstream connection with barrier 	or barrier (without connection) 	cut-out front plate 	top front plate 	bottom front plate 
	6	07639	07262 (barrier without connection)				07814	07801	07801
	6	07639	07262 (barrier without connection)				07814	07801	07801
	4	07614 + 39993					07901		
	5	07633 + 39993					07850		
	5	07619 + 07580					07839		
	5	07619 + 07580					07839		
	3	07730	07230	07730	07230		07900		
	4	07731	07231	07731	07231		07852(5)		
	6	07732	Polypact 07013(3P) or 07014(4P)	07733		07276	07853		07801
	3	07730	07230	07730	07230		07914		
	4	07731	07231	07731	07231		07855		
	6	07732	Polypact 07014(4P)	07733		07276	07853		07801
	3	07730	07230	07730	07230		07914		
	4	07731	07231	07731	07231		07855		
	6	07732	Polypact 07012(3P) or 07015(4P)	07733		07276	07853		07801
	3	07730	07230	07730	07230		07900		
	4	07731	07231	07731	07231		07852		
	8	07732	Polypact 07014	07733		07276+07260	07854		07801
	3	07730	07230	07730	07230		07914		
	4	07731	07231	07731	07231		07855		
	8	07732	Polypact 07014	07733		07276+07260	07964		07801
	3	07730	07230	07730	07230		07914		
	4	07731	07231	07731	07231		07855		
	8	07732	Polypact 07015(4P)	07733		07276+07260	07964		07801
	3	07730	07230	07730	07230		07900		
	4	07731	07231	07731	07231		07852(5)		
	9	07732	07276 + 07260(4)	07733		07276+07260	07853	07802	07802
	3	07730	07230	07730	07230		07914		
	4	07731	07231	07731	07231		07855		
	9	07732	07276 + 07260(4)	07733		07276+07260	07853	07802	07802
	3	07730	07230	07730	07230		07914		
	4	07731	07231	07731	07231		07855		
	9	07732	07276 + 07260(4)	07733		07276+07260	07853	07802	07802
	3	07730	07230	07730	07230		07900		
	4	07731	07231	07731	07231		07852		
	11	07732	07276 + 07260(4)	07733		07276+07260	07854	07802	07802
	3	07730	07230	07730	07230		07914		
	4	07731	07231	07731	07231		07855		
	11	07732	07276 + 07260(4)	07733		07276+07260	07964	07802	07802
	9	07732	Polypact 07013(3P) or 07014(4P)	07733		07276+07260	07853	07802	07802
	9	07732	Polypact 07015(4P) or 07012(3P)	07733		07276+07260	07853	07802	07802
	11	07732	Polypact 07014 + 07260	07733		07276+07260	07854	07802	07802
	11	07732	Polypact 07014 + 07260	07733		07276+07260	07964	07802	07802
	11	07732	Polypact 07015	07733		07276+07260	07964	07802	07802

(3) Vertically mounted 100 A to 250 A circuit breakers may be combined on the same row under the following conditions:

- same type (normal circuit breaker or Vigi version)
- same control (toggle, rotary handle or motor mechanism)
- no terminal spreaders.

The following configurations can be supplied by Polypact:

■ 3P devices:

- 100/100/100/250
- 100/100/160/250
- 100/160/160/250

■ 4P devices:

- 100/100/250
- 100/160/250.

(4) Barriers without connections.

(5) If the device is fitted with a measurement module, use mounting plate 07856.

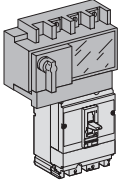
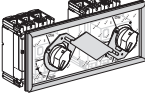
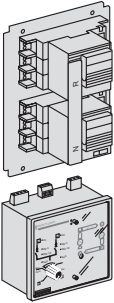
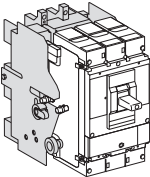
Visucompact NS 100/630, source changeovers NS 100/630, Compact NS withdrawable



Prisma P switchboard with front plate support uprights + transparent door



Prisma P switchboard equipped with functional doors

	Device		
		horizontal or vertical mounting H = horizontal V = vertical	number per row
Visucompact circuit breaker 	100 to 630 A, fixed, front connected	toggle	
	NS100/250 Visu	V	1
	NS100/250 Visu earth-fault protec.	V	1
	NS400/630 Visu	V	1
	NS400/630 Visu earth-fault protec.	V	1
manual source changeover 	100 to 630 A front or rear connected	rotary handle	
	NS100/250 and Vigü NS100/250 with mechanical interlocking ref. 29347	V	1
	NS100/250 and Vigü NS100/250 with mechanical interlocking ref. 29369 (3)	V	1
	NS400/630 and Vigü NS400/630 with mechanical interlocking ref. 29347	H	1
	NS400/630 and Vigü NS400/630 with mechanical interlocking ref. 32621 (3)	H	1
automatic source changeover 	100 to 630 A fixed or plug-in front and rear connected	motor mechanism	
	NS100/250 and Vigü NS100/250 without controller	H	
	NS400/630 and Vigü NS400/630 without controller	H	
	controller only		
Compat withdrawable circuit breaker 	100 to 630 A front or rear connected	toggle or motor mechanism (1)	
	NS100/160/250	H	1
	NS100/160	V	2 2P, 2 3P, 1 4P
	NS250	V	2 2P, 2 3P, 1 4P
	NS400/630	H	1
	NS400	V	1
	NS630	V	1

(1) For devices fitted with a toggle, order the special collar **29284** for NS100/250 or **32534** for NS400/630. For devices fitted with a rotary handle, please consult us.

(2) 4-pole device with keylock: include an extra vertical module and add a plain top front plate **07801** + 1 to 6 module divisible barrier ref. **07260**.

(3) Downstream coupling accessory:

■ for NS 100/250, 3P 29358 and 4P 29359

■ for NS 400/630, 3P 32619 and 4P 32620.

Barrier without connection

A metal barrier enabling:

■ the passage and support of connections (not supplied) to a horizontal Compact NS100/250 circuit breaker

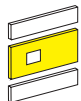
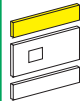
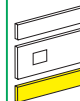
■ implementation of Form 2 separation.

It is used when the prefabricated connection with barrier is not available or for certain switchboard configurations such as:

■ connection to vertical busbars (flat bars) in a Prisma P cubicle

■ connection to any vertical busbars (flat bars or Linergy busbars) in a Prisma PH cubicle.

choice of barrier without connection		cat. No.
NS100/250	3P	07270
	4P	07271

Device installation						Form 2
vertical modules required H = 50 mm	mounting plate	cut-out front plate	top front plate	bottom front plate		barrier (without connection)
						
11	07528 + 07619	07888				07273
11	07528 + 07619	07888				07273
16	07529 + 07619	07889	07801			07278
18	07529 + 07619	07889	07801	07802		07278
10	07629	07954	07802	07803		07262
10	07579 + 07619	07829	07802	07803		07262
10	07737	07957		07801		07280
11	07749	07830				07280
8	07729	07947				07277
10	07739	07948				07280
4	07729	07949				07264
6	07731	07919				07271 + 07260
7	07733	07853	07801	07801		07276 + 07260
9	07733	07853	07802	07802		07276 + 07260
6 (2)	07736	07978				07275
12	07750	07834	07802	07801		
14	07750	07834	07803	07802		

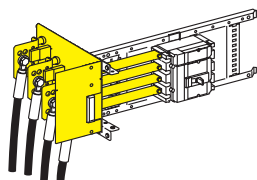
Downstream connections

NS100/250 A

Connection of Compact NS100/250 circuit breakers using cables $\geq 120 \text{ mm}^2$, with crimped lugs. Use small crimped lugs.

cable cross-section	set of 4
120 mm ²	29256
150 mm ²	29257
185 mm ²	29258

In duct via special assembly



See page 117.

NS400/630 A

Connection of Compact NS400/630 circuit breakers using cables $\geq 240 \text{ mm}^2$, with crimped lugs.

Two solutions:

- small crimped lugs (for direct connection to the terminals of the device):
□ for 3P device

cable cross-section	set of 4
240 mm ²	32500
300 mm ²	32502

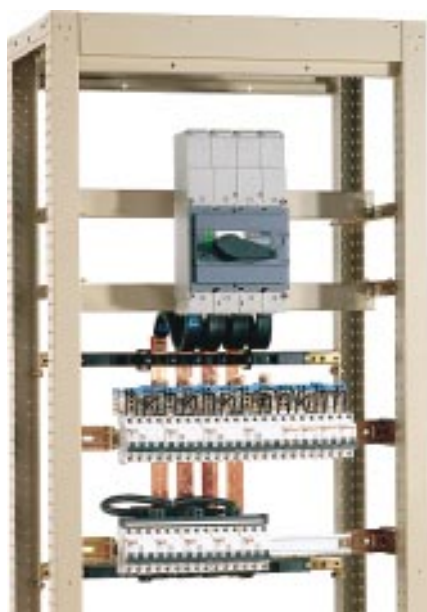
- for 4P device

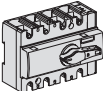
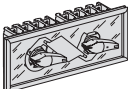
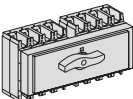
cable cross-section	set of 4
240 mm ²	32501
300 mm ²	32503

- normal lugs: use 52.5 mm pitch spreaders

type of device	1 set of terminal spreaders
3P device	32490
4P device	32491

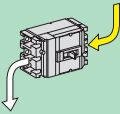
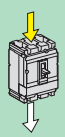
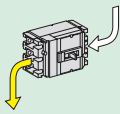
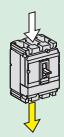
INS 40/250, INV 250 switch-disconnector



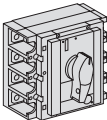
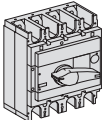
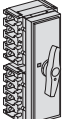
	Description of device		Form 2	
		number per row	barrier (without protection)	
 INS switch-disconnector	INS40/80	4	07263	
	INS100/160	3	07263	
	INS100/160 with long terminal shield	3	07263 + 07260	
 INS switch-disconnector	100 to 250 A, horizontal mounting, fixed, front connection (1) direct or extended front handle			
	INS100/250 INV100/250	1		
 INS switch-disconnector	100 to 250 A, vertical mounting, fixed, front or rear connections direct or extended front handle			
	INS100/250	1		
	INV100/250	3	07267	
 manual source changeover	100 to 250 A, vertical mounting, fixed, front or rear connections, rotary handle			
	mechanical interlock	1	07262	
	INS100/250 INV100/250			
 manual source changeover	100 to 250 A, vertical mounting, rotary handle			
	INS100/250 one-piece source changeover INV100/250	1	07262	

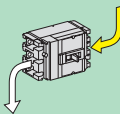
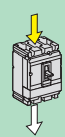
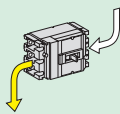
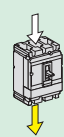
(1) Possibility of using front connections upstream and rear connections downstream or vice versa.

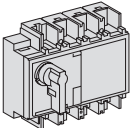
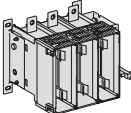
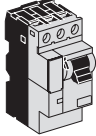
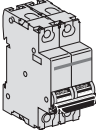
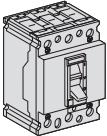
(2) To be ordered with the device.

Installation						Upstream connection			Downstream connect./distribution		
	vertical modules required H=50 mm	mounting plate 	cut-out front plate 	add. top front plate 	add. bottom front plate 	description  	add. mod.	add. front plate	description  	add. mod.	add. front plate
	3	07603	07813								
	4	07603	07814								
	5	07603	07815								
	4	07731	07865			direct to device if lugs are used, see device documentation supplied from Linergy busbars prefabricated upstream connection assembly and Form 2 barrier 07231	0 0		by Polybloc distribution block Polybloc 160 A 6 circ. 4P 07100 0 Polybloc 250 A 9 circ. 3P 07103 0 Polybloc 250 A 9 circ. 4P 07101 1 Polybloc 250 A 12 circ. 4P 07102 2 by multi-hole terminals terminals 6x35 ² (set of 3) 29248 0 terminals 6x35 ² (set of 4) 29249 0 by busbars in the rear of the switchboard connection to rear busbars not supplied	2	07801 07801x2 07802
	7	07732	07866		07801	direct to device if lugs are used, see device documentation by Polypact 4P 07014 supplied from Linergy busbars	0 0 0		by Polybloc distribution block Polybloc 160 A 6 circ. 4P 07100 0 Polybloc 250 A 9 circ. 3P 07103 0 Polybloc 250 A 9 circ. 4P 07101 1 Polybloc 250 A 12 circ. 4P 07102 2 by multi-hole terminals terminals 6x35 ² (set of 3) 29248 0 terminals 6x35 ² (set of 4) 29249 0 by busbars in the rear of the switchboard 250 A connection to rear busbars not supplied	2	07801 07801x2 07802
	7	07732	07867	07801	07801						
	9	07579 + 07619 + 31064 x 2 (2)	07829	07802	07802	direct to device	0		use downstream coupling accessory references 29358 3P and 29359 4P	0	
	9	07579 + 07619 + 31064 x 2 (2)	07828	07802	07802						

INS 320/630, switch-disconnector INV 320/630

	Description of device		Form 2	
		number per row	barrier (without connection)	
INS switch-disconnector 	320 to 630 A, horizontal mounting, front and rear connections, direct or extended front handle			
	INS320/400/500/630 INV320/400/500/630	1	07275	
INS switch-disconnector 	320 to 630 A, vertical mounting, front and long rear connections, direct or extended front handle			
	INS320/400 / INV320/400 INV500/630 / INV300/630	1 1	07262 + 07260 07262 + 07260	
manual source changeover  	horizontal mounting, front and rear connections, rotary handle			
	mechanical interlock INS320/400 INV320/400	1	07280	
	horizontal mounting, rotary handle			
	INS320/400 one-piece source changeover INV320/400	1	07280	

Installation						Upstream connection			Downstream connect./distribution			
	vertical modules required H=50 mm	mounting plate	cut-out front plate	add. top front plate	add bottom front plate	description		add. mod.	add. front plate	description	add. mod.	add. front plate
						 				 		
5	07735	07873				direct to device supplied from Linergy busbars if lugs are used, see device documentation	0 0			by busbars in the rear of switchboard 400 A connection to rear busbars not supplied by Linergy busbars in duct	2 0	07802
10 12	07750 07750	07872 07872	07802 07803	07802 07803		direct to device supplied from Linergy busbars if lugs are used, see device documentation	0 0			by busbars in the rear of switchboard 400 A connection to rear busbars not supplied by Linergy busbars in duct	2 0	07802
11	07749	07830				direct to device	0			use downstream coupling accessory references 32619 3P and 32620 4P	0	
11	07749	07831										

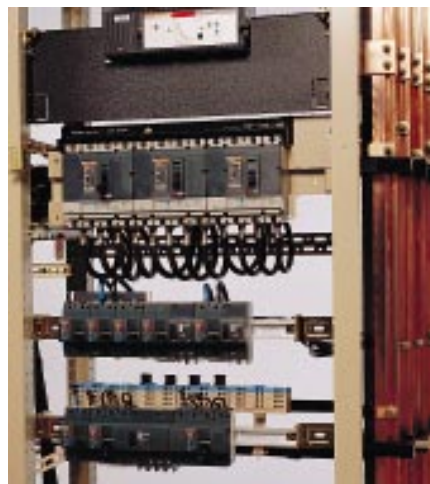
	Device			Installation of device					Form 2
	description	horizontal or vertical mounting H: horiz. V: vert.	number per row	vertical modules required H = 50 mm	mounting plate	cut-out front plate	top front plate	bottom front plate	
Interpact switch 	IN1000/1600	V	1	12	07619	07940	07803	07803	
	IN2500 (1)	V	1	14	07619	07940	07804	07804	
Fupact switch 	UC50/UD63	V	2	5	07625	07868 (2)			07267
	UC/UD125/UD160	V	2x3P, 1x4P	5	07625	07868 (2)			07267
	UD250/400T	V	1	9	07627	07868 (2)	07802	07802	07269
	UD630T	V	1	11	07627	07868 (2)	07802	07804	07273
motor protection 	Integral 32	H	1	2	07610	07870			07260
	Integral 32	H	2	4	07611	07871			07261
	Integral 63/ Integral 32/63 changeover	H	1	4	07611	07871			07261
	Integral 32	V	6	8	07612	07814	07802	07802	07269
	Integral 32 changeover	V	3	8	07612	07814	07802	07802	07269
	C60L-MA + contactor/relay assembly or changeover contactor/relay assembly ≤ 40 A	H	18 mod.	4	07611	07871			07261
	circuit breaker 80 A, fixed, front connected, toggle								
	NS80H-MA + contactor/relay assembly	H	1	4	07667	07968			07264
	NS80H-MA + contactor/relay assembly	V	4	5 + 5	07668 + 07661	07969		07805	07276 + 07260

(1) In Prisma P cubicles, mounts behind front plate support door or front plate support frame without removing the handle.

(2) The front plate comes with a blanking plate.

(3) Connection by cables in tunnel terminals up to 70 mm².

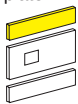
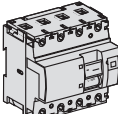
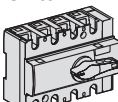
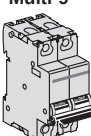
(4) Connection by cables with lugs or in tunnel terminals up to 95 mm².



Connection of NG125 circuit breaker via comb busbars and Multiclip distribution block.



Connection via comb busbars and Multiclip distribution block.

	Device			Installation of device				Form 2
	description	horizontal or vertical mounting H : horiz. V : vert.	width in 9 mm modules	vertical modules required H = 50 mm	mounting plate or Multifix rail 	cut-out front plate 	top front plate 	barrier (without connec.) 
Compact modular circuit breaker 	160 A, modular, fixed, front connected, mounting on symmetrical rail, toggle							
	NSA 63/160	V	10 mod. (3P) 14 mod. (4P)	5	07603	07815		07263 + 07260
	Vigi NSA 63/160	V	24 mod. (3P) 27 mod. (4P)	5	07603	07815		07263 + 07260
NG125 modular circuit breaker 	supply via point-to-point wiring							
	NG125 Vigi NG125	V		4	07603	07814		07263
	Multiclip supply							
	NG125 Vigi NG125	V		5	07603	07814	07801	07263 + 07260
Interpact switch 	INS40/80	V	10 mod.	3	07603	07813		07263
	INS100/160 (1)	V	14 mod.	4	07603	07814		07263
	INS100/160 with long terminal shields (2)	V	14 mod.	5	07603	07815		07263 + 07260
Multi 9 	1 Multi 9 row for measurement devices or Diazed fuse connection: point-to-point wiring	V		2	07603	07812		07263
	1 Multi 9 row connection: comb busbars or point-to- point wiring cable running: cable straps H = 30 mm	V		3	07603	07813		07263
	1 Multi 9 row all types of connections including Multiclip cable running: ■ with cable straps, H = 30 or 60 mm ■ via horizontal trunking (3), H = 30 mm	V		4	07603	07814		07263
	1 Multi 9 row with Multiclip located: ■ all the head of cubicle ■ or immediately below a mounting plate other than a Multifix rail cable running: ■ with cable straps, H = 30 or 60 mm ■ via horizontal trunking (3), H = 30 mm	V		5	07603	07814	07801	07263 + 07260
	3 Multi 9 row connection: comb busbars or point-to- point wiring cable running: cable straps H = 30 mm	V		8	07603 x 3	07755		07264 x 3
Fuses 	Type Gould MS22	V	4 mod.	4	07603	07756		07263
Other devices				2 3 4 5 6		07812 07813 07814 07815 07816		

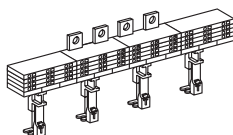
(1) Connection by cables in tunnel terminals up to 70 mm².

(2) Connection by cables with crimped lugs or in tunnel terminals up to 95 mm².

(3) For cable running in horizontal trunking H > 30 mm, add one extra module and a plain front plate 07801.

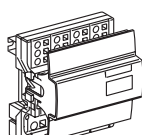
Accessories for modular devices

Multiclip 180 A distribution block



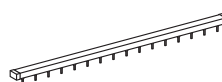
See page 109

Distribloc distribution block



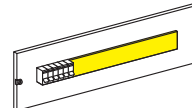
See page 106

Comb busbars

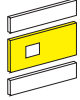
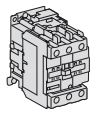
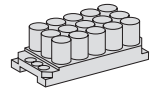
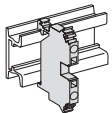
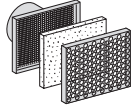
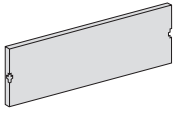
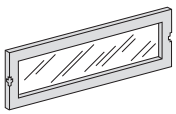
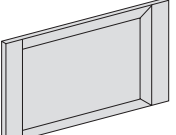


See page 112

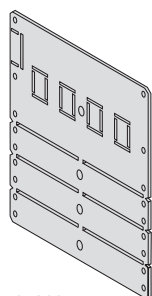
Blanking plate



See page 125

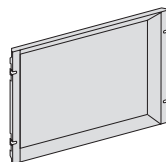
	Device		Installation of device				Form 2
	description	number per row	vertical modules required (H = 50 mm)	mounting plate or rail	cut-out front plate	plain front plate	barrier (without connection)
							
isolating switches contactor 	Mounting on: 2 sup. + 4 cross-members (large devices)			07619			07264+07260
	2 Multifix rails + 4 slide rails (small devices)			07645		07264+07260	
	slotted plate H = 150		3	07660		07803	07263
	H = 250		5	07661		07805	07267
	H = 500		10	07662		07805 x 2	07262
Varplus 	power compensation						
	Varplus + contactor + fuse base integral: up to 30 kvar/230 V up to 60 kvar/400 V	1	5	07647		07805	07267
	modular: up to 25 kvar/230 V up to 50 kvar/400 V						
terminal blocks 	reactive power regulator 144 x 144 mm	1	4		07891		07260
	connection to terminals						
	4 mm ² L = 6 mm	70	3	07603		07803	07263
	6 mm ² L = 8 mm	52	3	07603		07803	07263
	10 mm ² L = 10 mm	42	5	07603		07805	07263+07260
air conditioning accessories 	16 mm ² L = 12 mm	36	6	07603		07806	07263+07260
	air conditioning						
	IP 20 ventilating front plate		1		07980		07260
			5		07981		07260
	front plate for fan 07988 and 07989 or filter grill support 07985		5		07984		07260
reserve 	flat plain front plate						
	Height (mm) 50		1			07801	07260
	100		2			07802	07260
	150		3			07803	07260
	200		4			07804	07260
	250		5			07805	07260
	300		6			07806	07260
	550		11			07773	07260 x 2
	750		15			07774	07260 x 3
	950		19			07775	07260 x 4
	1150		23			07776	07260 x 4
	transparent front plate						
	Height (mm) 200		4			07890	07260
	300		6			07892	07260
	recessed plain front plate (34 mm deep)						
	Height (mm) 300		6			07943	07260
	550		11			07946	07260 x 2

Barrier form 2



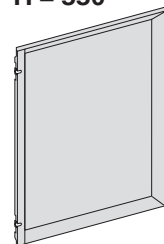
07260

Recessed front plate H = 300



07943

Recessed front plate H = 550



07946

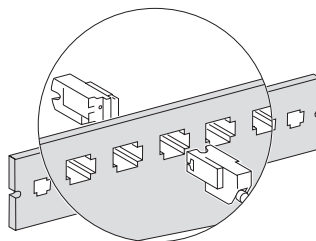
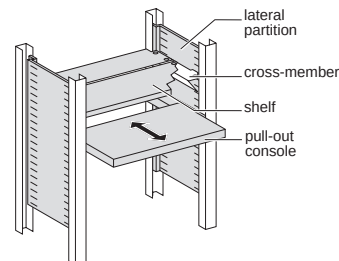
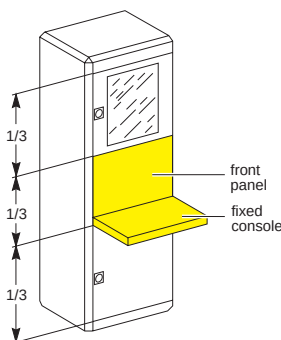
Consoles and shelves Switchboard lighting



Prisma P cubicles may hold computer hardware (monitor, CPU, printer, etc.). Equipment may be placed on shelves. The front of the resulting compartments is protected using partial doors.

In addition, keyboards, telephones, etc. may be placed on the fixed shelves or pull-out consoles.

description		cat. No.
consoles		
fixed console H = 100 mm, D = 370 mm		07688
front panel for fixed console		07689
pull-out console D = 260 mm		07687
shelves		
for frame D = 400 mm	2 lateral 11 mod. partitions	07690
	+ 2 cross-members	07678
	+ 1 shelf	07685
for frame D = 600	2 lateral 11 mod. partitions	07691
	+ 2 cross-members	07679
	+ 1 shelf	07685 + 07686
special front plate for installation of IBM-TR connectors on the front panel of the switchboard		
front plate for 10 IBM-TR connectors (2 modules)		07858



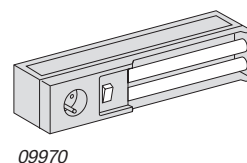
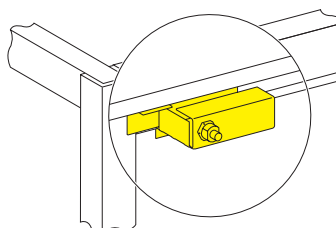
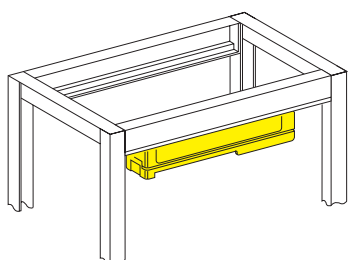
Front plate 07858

Fluorescent lighting for cubicles

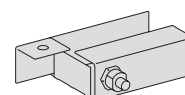


- lighting fixtures are mounted under the top cover plate of the Prisma P cubicle:
 - behind a front plate support door
 - behind a plain or transparent door, without front plate support uprights
- they are fitted with a power socket 10/16 A + earth
- they take up no useful space in the switchboard.

description		cat. No.
fluorescent lighting for Prisma P cubicle		09970
power: 11 W		
supply voltage: 220/240 V		
door contact for Prisma P cubicle		09971



09970



09971

Multifix rail



07603



07645



07646



09862

description

2 Multifix rails L = 573 mm
supplied with 4 slide rails for adjusting depth.

To be installed in:

- Prisma P cubicle, D = 400 mm,
- Prisma PH cubicle, D = 500 mm, equipped with functional uprights

set of 2 slide rails + fittings.

To be installed in:

- Prisma P cubicle, D = 400 mm,
- Prisma PH cubicle, D = 500 mm, equipped with functional uprights.

Multifix rail L = 430 mm supplied with 2 support brackets

To be installed in:

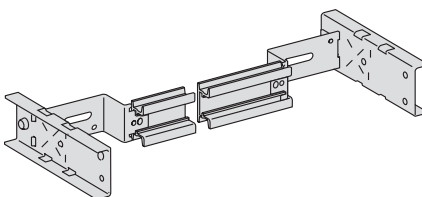
- Prisma P cubicle,
- Prisma PH cubicle, equipped with functional uprights.

cat. No.

07645

07646

07603



07603

description

2 Multifix rails L = 1750 mm

10 Multifix rails
length of rail

L = 473 mm

L = 573 mm

L = 673 mm

L = 773 mm

cat. No.

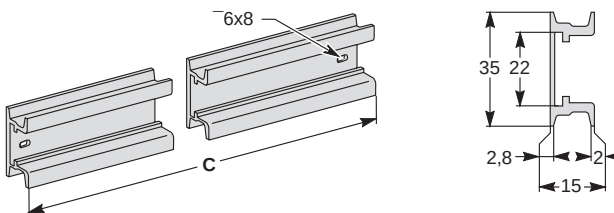
09850

09861

09862

09863

09864



Sliding nuts for Multifix rail



For fixing mounting plates or special devices to Multifix rails.

20 sliding nuts for Multifix rail

cat. No.

Ø A Ø B

M3 M5

09923

M4 M6

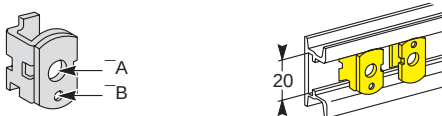
09924

M5 M3

09925

M6 M4

09926



Clip-on nuts



Used for mounting various devices (contactors, transformers, etc.) on slotted plates.

clip-on nuts for slotted mounting plates

cat. No.

20 clip-on nuts M4

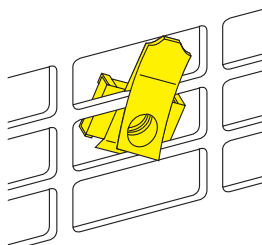
05114

M5

05115

M6

05116



Rails, mounting accessories

Symmetrical rails

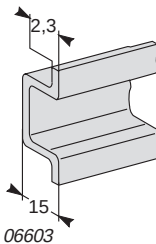


description

symmetrical rail L = 2000 mm, reinforced rail (th = 2.3, D = 15)

cat. No.

06603

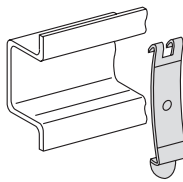


clip-on nuts for symmetrical rail

20 clip-on nuts Ø 4

cat. No.

14914



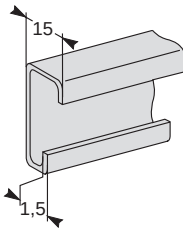
Asymmetrical rails

description

asymmetrical rail L = 2000, reinforced rail (th = 1.5, D = 15)

cat. No.

06602



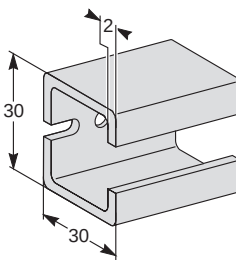
C section

description

C section L = 2000 2 slotted C sections Ø 7 at 20 mm centres, L = 1710

cat. No.

09855

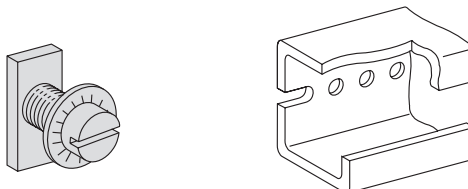


description

20 M6 x 16 bolts + nuts for C sections

cat. No.

09918



Stops



description

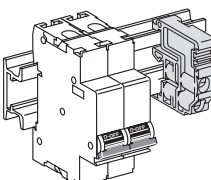
10 lateral stops for Multifix, symmetrical and asymmetrical rails

cat. No.

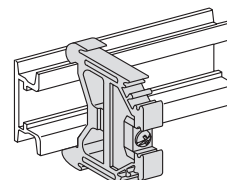
14915

1 stop for Multifix or symmetrical rail

07180



14915

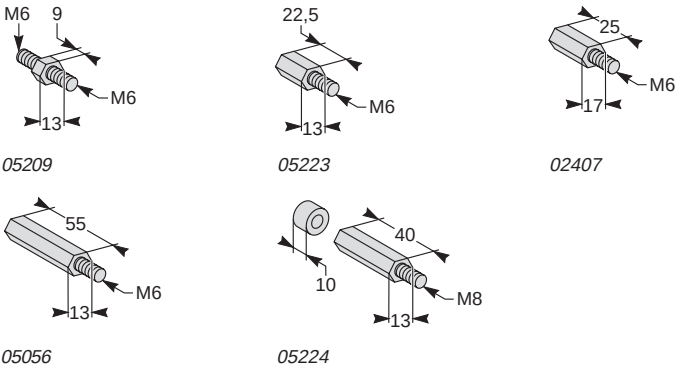


07180

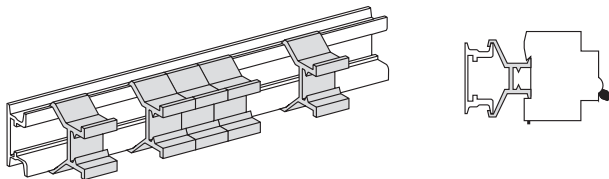
Raising of rails



raising of rails or chassis using stackable spacers	cat. No.
1 spacer D = 9	05209
1 spacer D = 22.5	05223
4 spacers D = 25	02407
4 spacers D = 40 + 10	05224
1 spacer D = 55	05056
2 support for Multifix inclined at 45°	07552



raiser for Multifix rail or symmetrical rail	cat. No.
10 raisers D = 15, W = 18 mm	14860



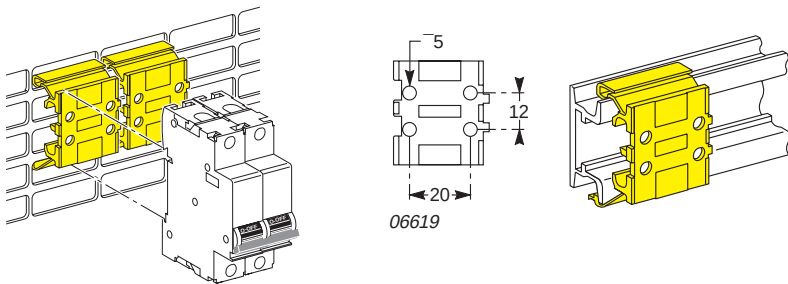
Pratic



Pratic adapters

Clipped on slotted plates, Multifix rails, symmetrical and asymmetrical rails. Accommodates terminal strips, terminal blocks, terminals, modular devices, etc. Also accommodates Prisma cable straps and may be used as a raiser D = 10, W = 27 mm.

description	cat. No.
5 Pratic adapters	06619

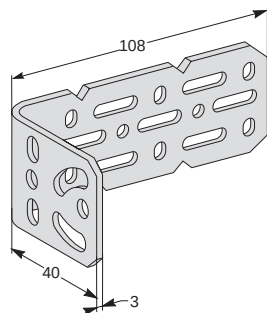


Special bracket



Bracket for installing mounting plates (plain plates, slotted mounting plates) for specific devices, trunking, etc. It is fixed to cross-members or directly to the frame of the cubicle.

description	cat. No.
special bracket	09915



Mounting plate for large devices



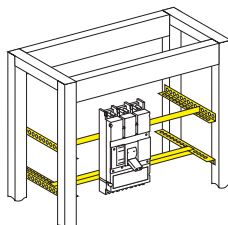
07619

The plate consists of 2 U-shaped metal bars, 3 mm thick. Supplied with 4 slide rails for adjusting depth. To be installed in:

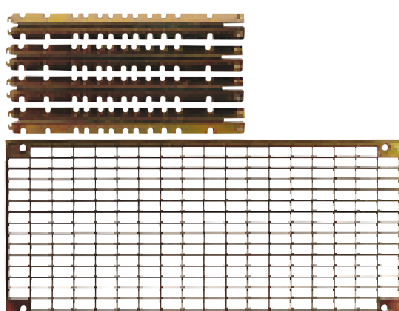
- Prisma P cubicles, mounted directly on the frame
- Prisma PH cubicles, equipped with functional uprights.

Catalogue numbers

description	cat. No.
mounting plate for large devices	07619



Slotted plates



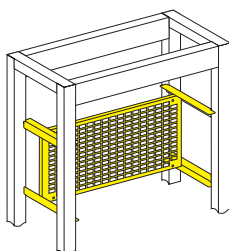
07661

Zinc-plated and chromated metal mounting plate. Supplied with 4 slide rails for adjusting depth. To be installed in:

- Prisma P cubicles
- Prisma PH cubicles, equipped with functional uprights.

Catalogue numbers

description	cat. No.
slotted plate	H = 250 mm 07661
	H = 500 mm 07662

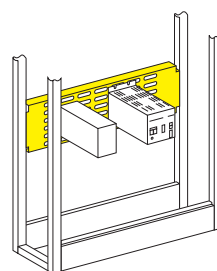
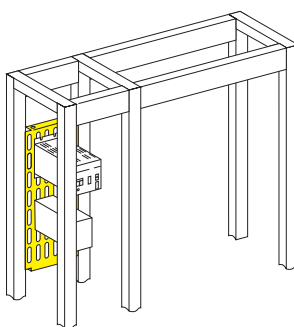


Zinc-plated and chromated metal mounting plate. To be installed in:

- horizontally at the rear of a switchboard:
- in Prisma P cubicles, fixed directly to the frame
- in Prisma PH cubicles, equipped with functional uprights
- vertically in the duct, L = 200 mm, of a Prisma P cubicle.

Catalogue numbers

description	cat. No.
slotted plate	H = 150 mm 07660

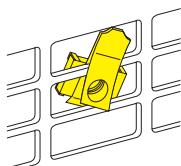


Clip-on nuts



Used for mounting various devices (contactors, transformers, etc.) on slotted plates.

clip-on nuts for slotted mounting plates		cat. No.
20 clip-on nuts	M4	05114
	M5	05115
	M6	05116



Frames and side panels for Prisma P cubicle

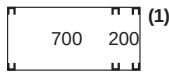
D = 400 frames



Basic frame



W = 700



W = 900



W = 1100

Extension frame



W = 300 W = 400

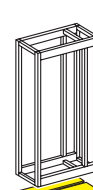
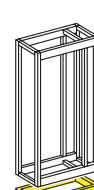
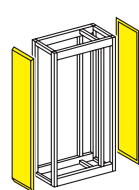
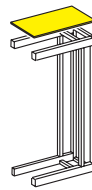
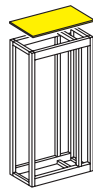


W = 650



W = 850

(1) The cable or bar duct can be installed on the right or left side of the frame in which the devices are mounted.



width of frame (4)	basic frame (2)	extension frame (2) (3)	2 side panels	plinth H = 250	gland plate
W = 300		09310		09380	09399
W = 400		09311		09385	09400
W = 700 (basic frame) or W = 650 (extension)	09302	09312	09364	09382	09392
W = 900 (basic frame) or W = 850 (extension)	09304	09314	09364	09384	09394
W = 1100	09306		09364	09386	09396

(2) The frame is supplied with a roof.

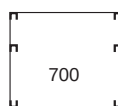
(3) The extension frame is moved together with the basic frame.

(4) The width of the cubicle, equipped with its side panels, is equal to the width of the frame + 25 mm (12.5 mm per side panel).

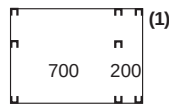
D = 600 frames



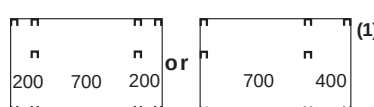
Basic frame



W = 700

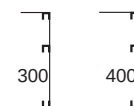


W = 900

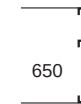


W = 1100

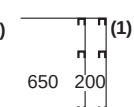
Extension frame



W = 300 W = 400

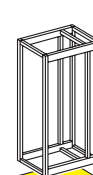
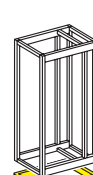
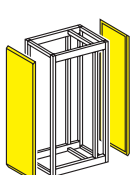
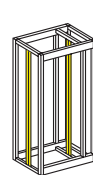
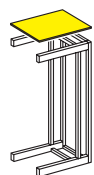
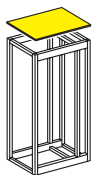


W = 650



W = 850

(1) The cable or bar duct can be installed on the right or left side of the frame in which the devices are mounted.



width of frame (5)	basic frame (2)	Extension frame (2) (3)	2 functional uprights (4)	2 side panels	plinth H = 250	gland plate
W = 300		09610			09380 + 09389	09640
W = 400		09499			09385 + 09389	09641
W = 700 (basic frame) or W = 650 (extension)	09602	09612	09625	09368	09382 + 09389	09642
W = 900 (basic frame) or W = 850 (extension)	09604	09614	09625	09368	09384 + 09389	09644
W = 1100	09606		09625	09368	09386 + 09389	09646

(2) The frame is supplied with a roof.

(3) The extension frame is moved together with the basic frame.

(4) Required for installation of the device mounting plates.

(5) The width of the cubicle, equipped with its side panels, is equal to the width of the frame + 25 mm (12.5 mm per side panel).

Back to back



A depth of 800 or 1000 is obtained by installing the basic or extension frames in all existing widths back to back.

In the back to back layout, cubicle sides are covered by half-panels.

e.g.: for frame D = 1000, side covers

consist of:

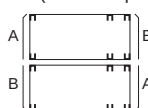
1/2 panel A 400, 1/2 panel B 400, 1/2 panel C 600, 1/2 panel D 600, i.e. 4 parts to order.

The choice of side panels is not affected by the width of the frame.

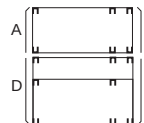
Side panels

description	cat. No.
1/2 panel A (400)	09632
1/2 panel B (400)	09633
1/2 panel C (600)	09634
1/2 panel D (600)	09635

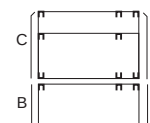
Note: The width of the cubicle, equipped with its side panels, is equal to the frame width + 25 mm (12.5 mm per side panel).



D = 800



D = 1000



Side by side



Two 900 mm wide basic frames side by side.

Two basic frames of the same depth

Two basic frames of the same depth can be joined up using a combination kit.

Combination kit

description	cat. No.
for basic frames depths 400 and 800	09370
depths 600 and 1000	09371

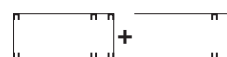
Fitting side by side a basic frame and an extension frame saves one combination kit. In this layout, the cubicles cannot be transported separately.

Side panels:

See opposite or above, depending on the depth of the frame.



Two basic frames.



One basic frame and one extension.

Two basic frames of different depths

Two basic frames of different depths can be joined up using a combination kit.

Combination kit

description	cat. No.
D = 400 + D = 800	09370
D = 600 + D = 1000	09371

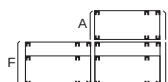
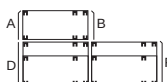
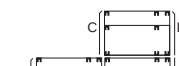
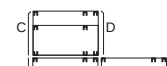
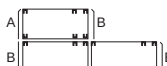
Side panels

description	cat. No.
1/2 panel A (400)	09632
1/2 panel B (400)	09633
1/2 panel C (600)	09634
1/2 panel D (600)	09635
end panel E (400)	09630
end panel F (600)	09631

Note:

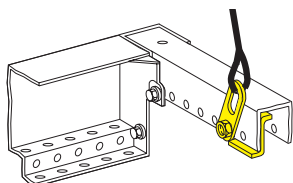
■ maximum degree of protection: IP31;

■ the width of the cubicle, equipped with its side panels, is equal to the frame width + 25 mm (12.5 mm per side panel).



A 900 mm wide basic frame and a 300 mm wide extension frame side by side.

Lifting lugs



description	cat. No.
2 lifting lugs for frame D = 400	03101
4 lifting lugs for frame D = 600, 800, 1000	2 x 03101

Degree of protection

The degree of protection of a Prisma P cubicle depends on the choice of front and back covers.
IP20/IK08: cubicle with front plate support door or front plate support frame,
IP30/IK08: cubicle with front plate support uprights + plain or transparent door,
IP31/IK08: IP30 cubicle + gasket **09372** (order 1 per frame),
IP54/IK08: IP30 cubicle + gasket kit + gland plate (except for wicket doors with cut-outs **09326** and **09330**).

IP54 gasket kit

dimensions of frame (in mm)			
W =	700	900	1100
D = 400	09374	09374	09377
D = 600 to 1000	09378	09378	09378

Note:
■ the choice of front and rear covers is not affected by the depth of the frame;
■ doors and wicket doors are supplied with a handle with barrel and 2 keys 405;
■ when the cubicle is installed over a cable trough (cables connected from below), use gland plates to obtain the original degree of protection.

Combinations of doors and wicket doors for the different basic frames and extensions

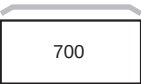


Cubicle with front plate support door.

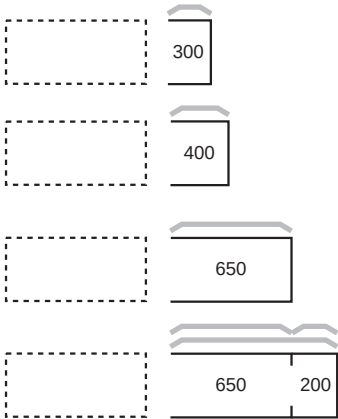


Cubicle with front plate support uprights + transparent door

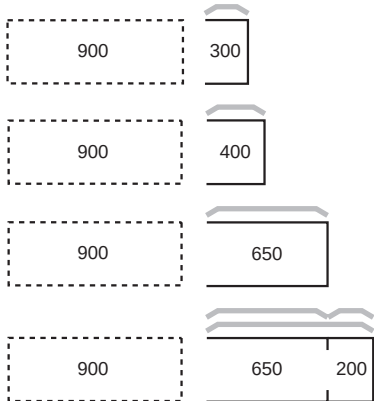
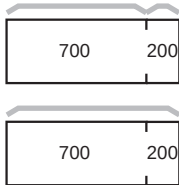
Basic frame
700 mm wide frame



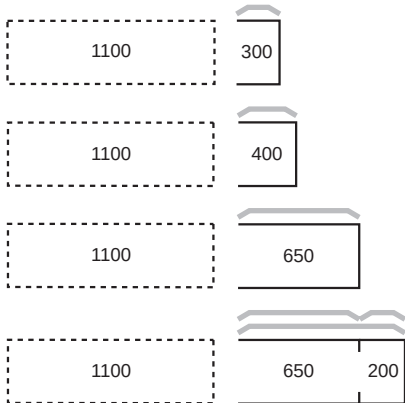
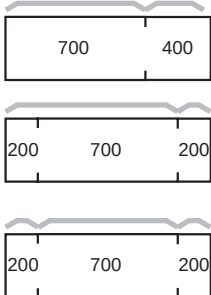
Extensions



900 mm wide frame

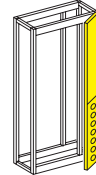
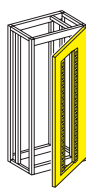
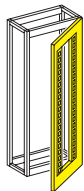
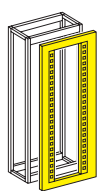


1100 mm wide frame

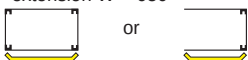
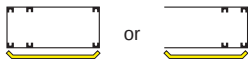


Note: The extensions may be installed on the right or left side of the basic frames.

front covers

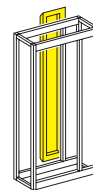
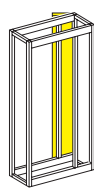
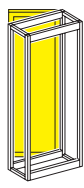
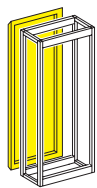


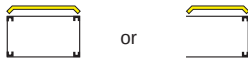
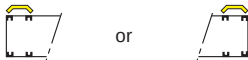
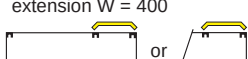
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80 %

	front plate (1) support frame	front plate support door		front plate support uprights + door		wicket door		
		W = 700	W = 900	plain	transp.	plain	with cut-outs for twenty 72 x 72 devices round body	square body
basic frame W = 700 or extension W = 650 	09320	09322		09327	09328			
basic frame W = 900 or extension W = 850 			09324					
duct W = 200, in basic frame or extension 						09325	09326	09330
duct W = 400, in basic frame extension W = 400 						09329		
extension W = 300 						09339		

(1) Mounted without door.

Rear covers



	screw-on back	door plain	transparent	plain wicket door		screw-on panel
				closure screw	with handle	
basic frame W = 700 or extension W = 650 	09352	09332	09342			
basic frame W = 900 or extension W = 850 	09354	09334				
duct W = 200, in basic frame 				09358	09325	
duct W = 400, in basic frame extension W = 400 					09329	09359
extension W = 300 					09339	09360

Note: All front cover panels may be installed in the rear and vice versa.

Partial door for Prisma P cubicles



Installation of computer equipment,
see MGA P155.

The front of Prisma P cubicles may be divided using covers of different heights: 1/3, 1/2, 2/3. The choice may include:

- front plate support frames;
- front plate support doors;
- front plate support uprights + plain or transparent door with possibility of combinations.

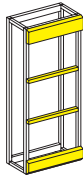
Important

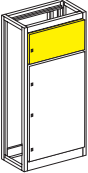
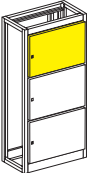
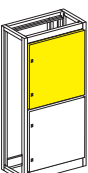
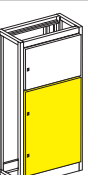
Max combination: 3 doors.

For each cubicle, order a **partial door support kit** comprising:

- 2 cover plates (for top and bottom)
- 2 intermediate cross-members.

description	cat. No.
kit	09440



	no. of modules H = 50 mm	front plate support frame	front plate support door	front plate support uprights + plain door	front plate support uprights transp. door	door only plain	transp.
	4					09453	
	6					09455	
							
	1/3 11	09441	09441 + 09950	09444	09447	09450	09451
	1/2 17	09442	09442 + 09950	09445	09448		
	2/3 23	09443	09443 + 09950	09446	09449		

Accessories

Gasket

for IP54 partial door (1 gasket per cubicle, cut as required)

description	cat. No.
1 gasket	09375



Heavy-duty cubicles for industrial applications

- the structure is made up of top and bottom frames and four uprights connected by 3-dimensional corner pieces made of moulded zamack, rigidifying the overall enclosure
- eight-point mounting of all cover panels ensures adequate pressure on the gaskets for a proper seal.

All the design flexibility of Prisma enclosures

- cubicles may be combined widthwise and depthwise
- cover panel configurations adaptable to all needs.

Practical implementation

- equipment may be mounted directly on the frame
- cover panels fitted only in final installation phase.

Characteristics

- degree of protection as per IEC 529: IP55
- degree of protection against mechanical impacts as per EN 50102: IK10
- material: 1.5 mm thick phosphatised and chrome passivated TC sheet steel
- surface treatment: Polyester-epoxy paint, textured finish, Prisma beige colour
- reversible door with 4 point locking system with casement bolt controlled by handle with barrel + key 405.

The Prisma PH cubicle, W = 715 mm, is designed to house the Prisma P functional system. Switchgear is installed using the same parts (mounting plates and front plates) as for Prisma P cubicles.

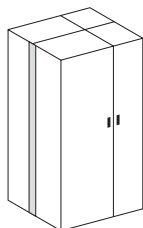
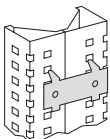
functional adaptors

Used for installation of a Prisma P system function (busbar support mounting plate, etc.) on a frame that is not equipped with functional uprights.



description	cat. No.
set of 4 functional adaptors	05901
earthing braid	
earthing braid 6 mm ² , L = 180 mm	07082
lifting rings	
4 lifting rings	05819

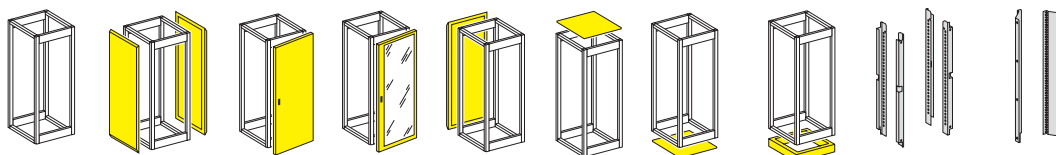
Accessories



description	cat. No.
combination kit	
frame combination kit (widthwise and depthwise)	05818
cover panel kit	
set of additional cover panels (for depthwise combinations)	05850

Composition of cubicle

Cubicles for assembly



outside dimensions H x W x D	frame	2 side panels	door plain	transp.	rear panel	roof panel (2)	gland plate	plinth H = 200	functional uprights	front plate support upright
2010 x 315 x 515(1)	05807	05848	05827		05847	05857	05877	05865		
2010 x 715 x 515	05802	05848	05822	05832	05842	05852	05872	05867	05900	05820
2010 x 315 x 715(1)	05817	05849	05827		05847	05860	05880	05865 + 05870		
2010 x 715 x 715	05812	05849	05822	05832	05842	05862	05882	05867 + 05870	05900 + 05921	05820

(1) The 315 mm wide duct can be added to the cubicle to house the vertical busbars or to run the cables.

(2) For sites exposed to water, a canopy is recommended to prevent water accumulation. It is compulsory for outdoor installations (please consult us).

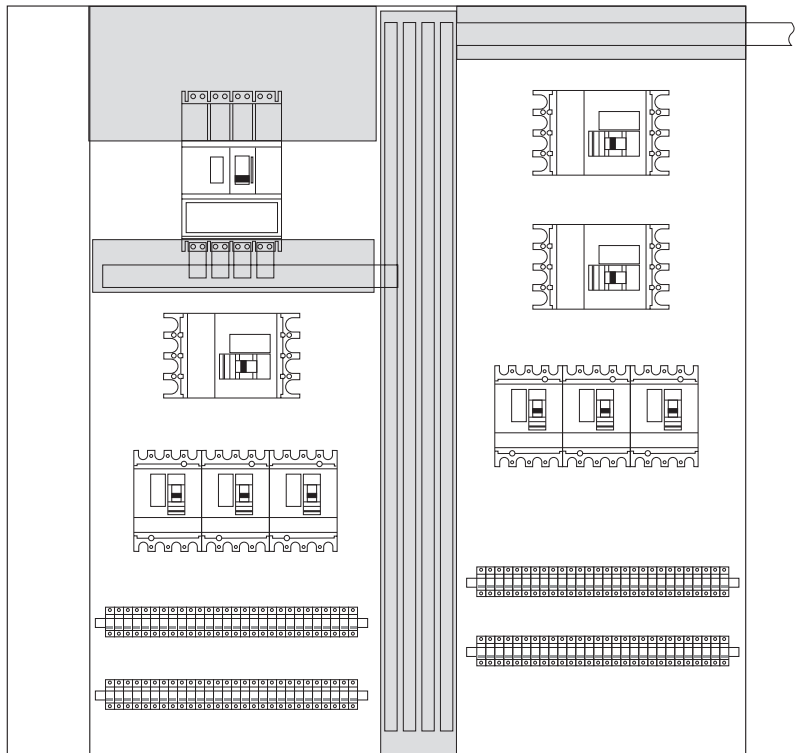
Type of partitioning in Prisma P and PH cubicles

For most installations Prisma cubicles require no special partitioning.
The standard cubicles are designed to protect both people and the installation:
■ via front plates
■ door locks requiring a key or special tool for access to live parts.
In addition, various types of partitioning are available.
They make it possible to build Form 2, 3 and 4 electrical switchboards.
The form of separation is covered by an agreement between the manufacturer and the user.

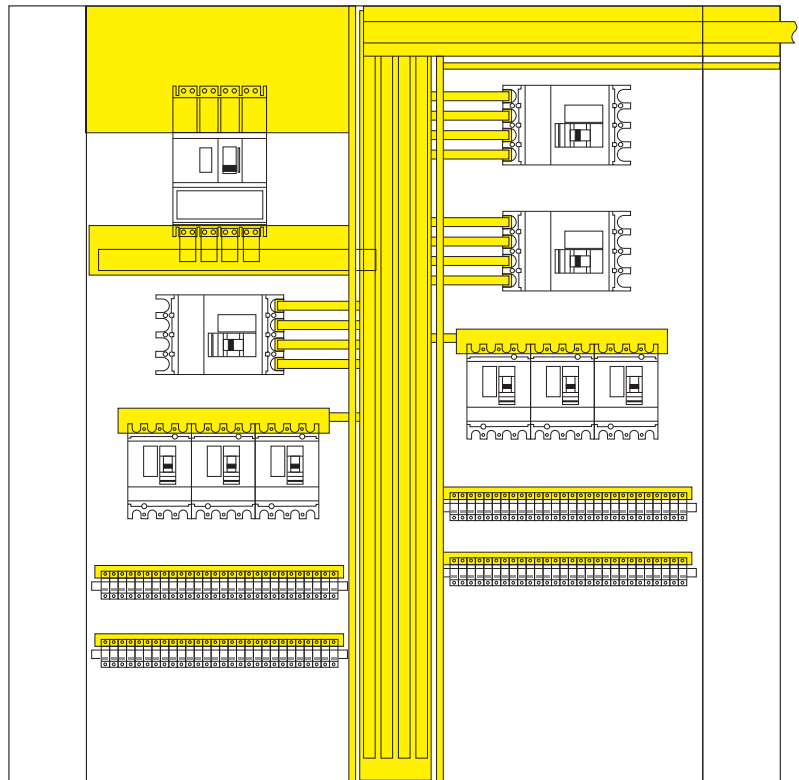
Minimum protection recommended for maintenance operations

The recommended protection includes:

- barriers on the horizontal and vertical transfer busbars to protect against accidental direct contact with live parts
- upstream partitioning of the incoming device so that maintenance can be carried out safely once this device is in the "off" position.



Form 2 switchboard

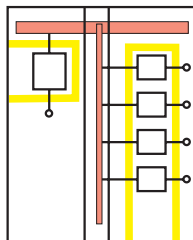


Example of form 2b switchboard: Prisma P with fixed front-connected circuit breakers.

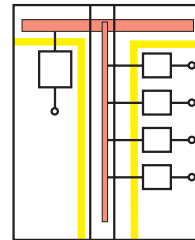
Definition of form 2:

- separation of busbars from the functional units:
- protection against contact with live parts upstream from outgoing devices
- limitation of the risk of propagation of short-circuit currents between functional units and busbars (electrical arcs or solid bodies).

Two types of form 2 separation as specified by standard IEC 60439-1



Form 2a



Form 2b

■ form 2a:

Terminals for external conductors not separated from the busbars
Functional units are separated from the busbars, but not the terminals for external conductors

■ form 2b:

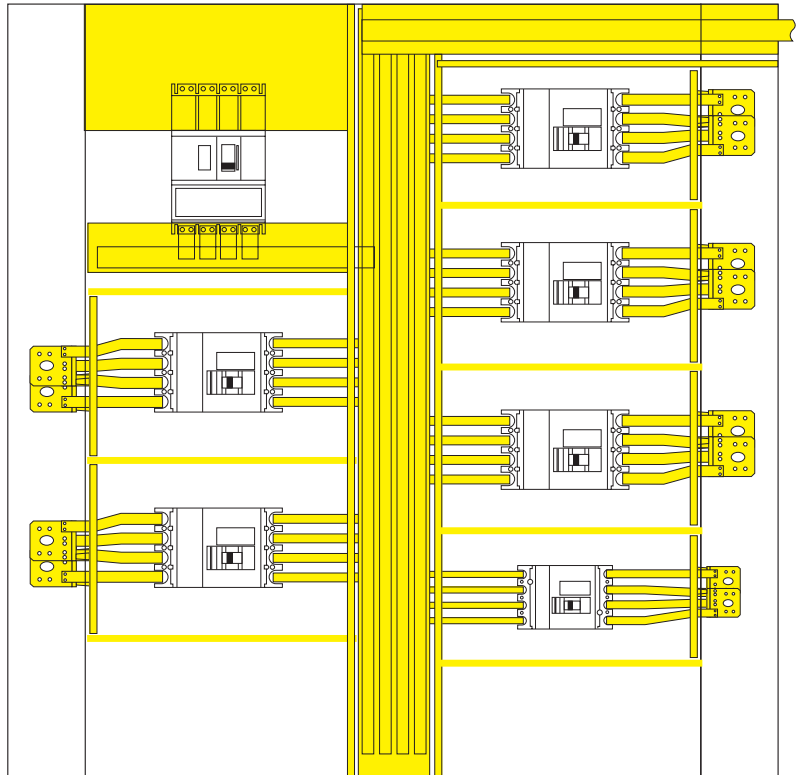
Terminals for external conductors separated from the busbars
Functional units and terminals for external conductors are separated from the busbars.

Prisma offers form 2b separation:

- with partitioning between main and distribution busbars
- for the protection of persons, Schneider recommends in addition:
 - partitioning of upstream and downstream connections on the incoming device (form 4 on incoming device)
 - use of prefabricated connections with integrated terminal shields or installation of upstream terminal shields on outgoing devices.

Type of partitioning in Prisma P and PH cubicles

Form 3 switchboard



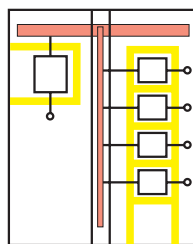
Example of form 3b switchboard: Prisma P with fixed front-connected circuit breakers.

Definition of form 3:

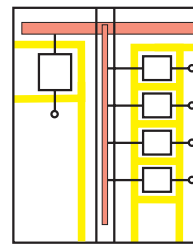
Separation of busbars from the functional units and separation of all functional units from one another. Separation of the terminals for external conductors from the functional units but not from one another.

- protection against contact with live parts
- limitation of the risk of faults between each of the functional units (propagation of electrical arcs, etc.).

Two types of Form 3 separation as specified by standard IEC 60439-1



Form 3a



Form 3b

■ form 3a:

Terminals for external conductors not separated from the busbars
The functional units are separated from one another and from the busbars, but the terminals for external conductors are not.

■ form 3b:

Terminals for external conductors separated from the busbars
The functional units are separated from one another and from the busbars. The terminals for external conductors are separated from the functional units but not from one another.

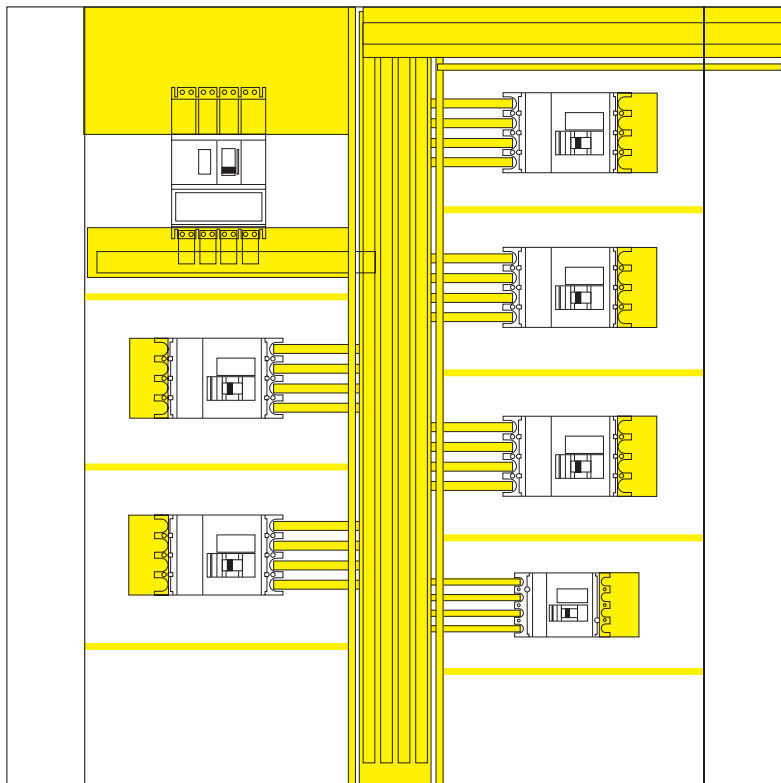
Prisma offers form 3b separation:

In addition to form 2 partitioning, add:

- horizontal barriers.

In-duct connection assemblies can be used to separate the downstream terminals of the device from the functional unit .

Form 4 switchboard



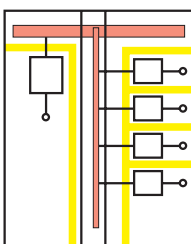
Example of form 4 switchboard: Prisma P with fixed front-connected circuit breakers.

Definition of form 4:

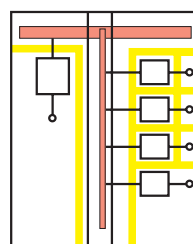
Separation of busbars from the functional units and separation of all functional units from one another, including the terminals for external conductors which are an integral part of the functional unit.

■ protection against contact with live parts and limitation of the faults between each of the functional units (propagation of electrical arcs, etc.).

Two types of form 4 separation as specified by standard IEC 60439-1



Form 4a



Form 4b

■ form 4a:

Terminals for external conductors in the same compartment as the associated functional unit

■ form 4b:

Terminals for external conductors not in the same compartment as the associated functional unit, but in protected spaces or separate closed compartments.

Prisma offers form 4a separation:

In addition to form 2 partitioning and horizontal barriers, add downstream terminal shields to outgoing devices.

Form 2 in single-depth Prisma P and PH cubicles

Form 2 partitioning

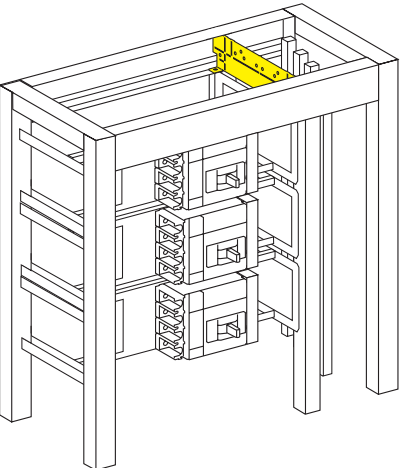
A set of metal partitions can be installed in Prisma P and PH cubicles. They physically separate the horizontal and vertical busbars from the functional units in accordance with standard IEC 439-1. Form 2 partitioning protects against direct contact between operating personnel and the main busbars when work is carried out on the switchboard. It also protects the electrical installation by preventing contact between all foreign objects and the live parts.

Partitioning between vertical busbars and devices

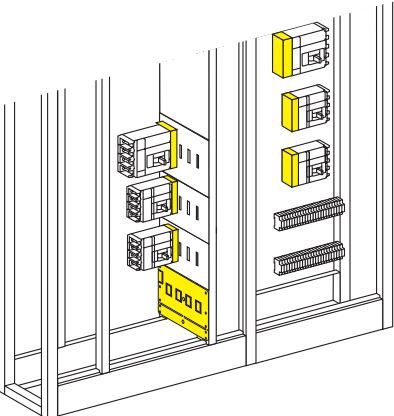
This is achieved using:

- prefabricated connections between devices and busbars, complete with a Form 2 barrier or barriers without connections (see selection table for mounting plates and front plates).
- When the switchboard includes modules reserved for future use, install a 1- to 6-module divisible barrier
- a set of additional metal barriers, installed at the top and bottom of the duct.

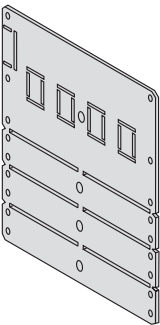
description	cat. No.
1- to 6-module divisible barrier	07260
set of 2 additional form 2 barriers	07479



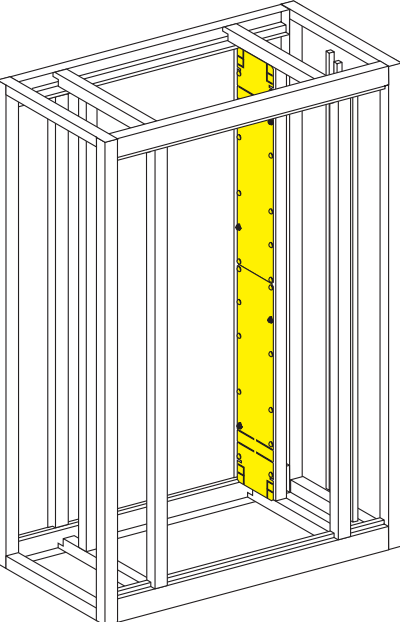
07479



07260



07260

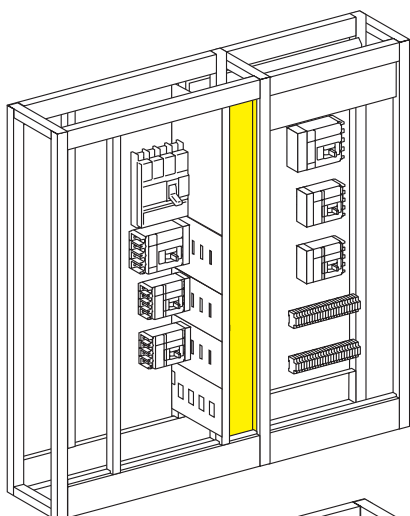


07478

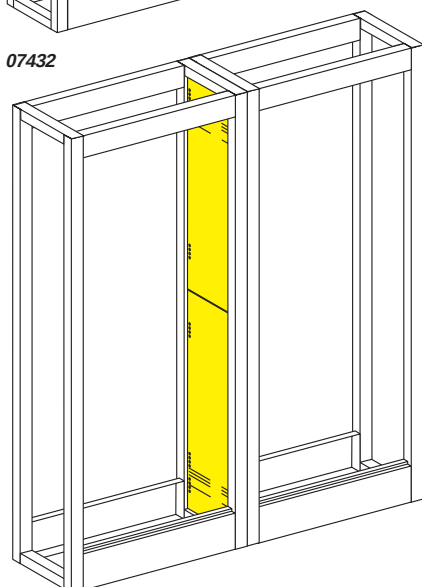
Partitioning extension

For Prisma P, D = 600 mm, and Prisma PH, D = 700 mm switchboards, add a depthwise partitioning extension.

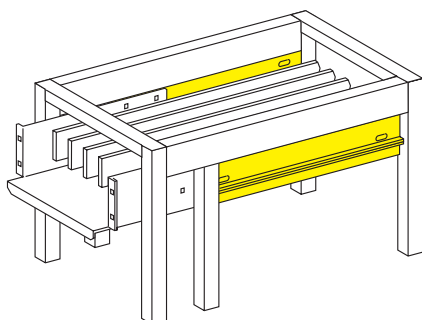
description	cat. No.
depthwise partitioning extension	
for cubicles:	
Prisma P, D = 600 mm	07478
Prisma PH, D = 700 mm	07478



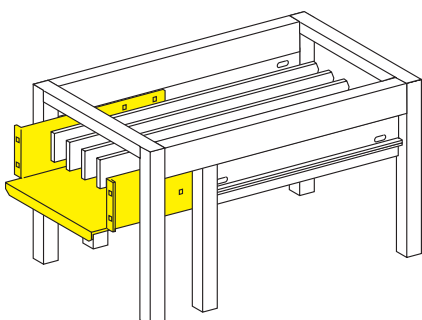
07432



07433



Partition, W = 700 mm, for horizontal busbars.



Add-on partition for duct.

Front partitioning

Use a wicket door supplied with a lock and key.

A front barrier for a duct can be fitted to protect against direct access to the busbars when the wicket door is open.

This barrier is mandatory if devices are mounted on the wicket door (indicator lights, push buttons, etc.).

description	cat. No.
front barrier for duct	
for Prisma P cubicle: W = 200 mm	07432
W = 300 mm	07443
W = 400 mm	07440
for Prisma PH cubicle: W = 300 mm	07430

Metal partition made up of 2 H = 850 mm panels, with ready-to-cut openings at each end.

The barrier is supplied with:

- a fuse-carrier mounting plate designed to take 4 Pratic adapters
- a Pratic adapter **06619**.

Note:

For rear partitioning, use a wicket door or a screw-on back panel.

Inter-cubicle partitioning

When, in the adjoining cubicle, there are no devices connected to the busbars, inter-cubicle partitioning is used to protect the busbars.

description	cat. No.
inter-cubicle partitioning	
for Prisma P cubicle: D = 400 mm	07433
D = 600 mm	07434
pour armoire Prisma PH : D = 500 mm	07433
D = 700 mm	07434

Metal partition made up of 2 H = 850 mm panels used to separate 2 cubicles joined side-by-side. Ready-to-cut openings are provided at the top and bottom for the passage of horizontal busbars. The partition is fitted to cable tie bars in Prisma P and PH cubicles. The cubicles must be equipped with functional uprights.

Horizontal partitioning

Metal barrier for partitioning of horizontal busbars running across the top or bottom of 700 mm wide Prisma P and PH cubicles.

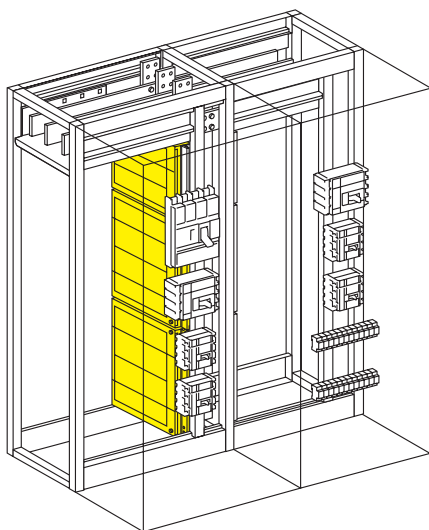
Extensions for ducts may be added on either side (W = 200, 300 or 400 mm).

Vertical space occupied: three 50 mm vertical modules.

description	cat. No.
partition, W = 700 mm, for horizontal busbars	
for Prisma P frame: D = 400 mm	07473
D = 600 mm	07474
for Prisma PH frame: D = 500 mm	07473 + 07477
D = 700 mm	07474 + 07477
add-on partition for duct, W = 200, 300 or 400 mm	
for Prisma P frame: D = 400 mm	07475
D = 600 mm	07476
for Prisma PH frame: D = 500 mm	07475
D = 700 mm	07476

Form 2 in double-depth Prisma P and PH cubicles

Form 2 partitioning



Partitioning between vertical busbars and devices

A metal assembly comprising:

- an element fixed directly to the frame. It is equipped with systems for securing cables or copper straps
- a cover with ready-to-cut openings for the passage of horizontal busbars at 1/3 and 2/3 the full height and at the top and bottom.

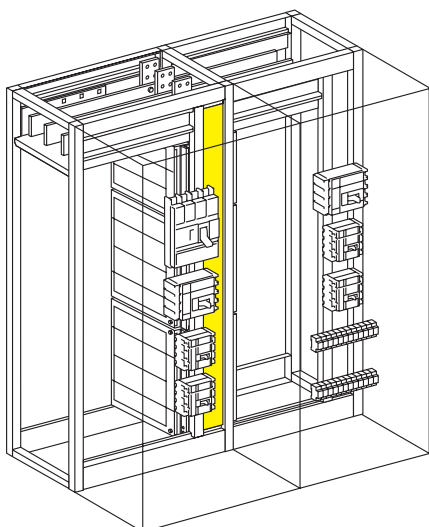
The assembly comes with self-adhesive gaskets designed to protect the cables. The lateral partitioning can be installed on the right or left side of the busbars in a Prisma P or PH cubicle.

Note:

■ when the vertical busbars are located at one end of the switchboard, partitioning with respect to the outside is provided by the side cover panel

■ when, in the adjoining cubicle, there are no devices connected to the busbars, inter-cubicle partitioning is used to protect the busbars (see page 3).

description	cat. No.
partition for vertical busbar	
for Prisma P cubicle: D = 800 mm	07471
D = 1000 mm	07472
for Prisma PH cubicle: D = 1000 mm	07471 +
+ functional uprights	05900
D = 1200 mm	07472 +
+ functional uprights	05900



Front partitioning

Use a wicket door supplied with a lock and key.

A front barrier for a duct can be fitted to protect against direct access to the busbars when the wicket door is open.

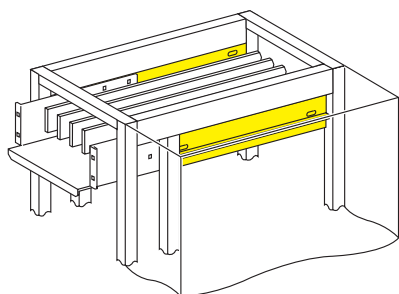
This barrier is mandatory if devices are mounted on the wicket door (indicator lights, push buttons, etc.).

description	cat. No.
front barrier for duct	
for Prisma P cubicle: W = 200 mm	07432
W = 400 mm	07440
for Prisma PH cubicle: W = 300 mm	07430

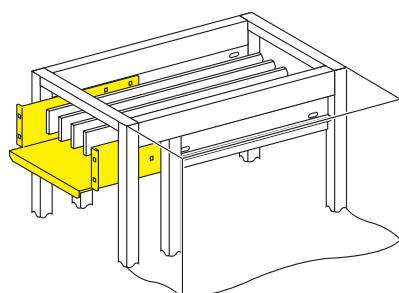
A metal barrier made up of two 850 mm high components, with ready-to-cut openings at each end.

The barrier is supplied with:

- a fuse-carrier mounting plate designed to take 4 Pratic adapters
- a Pratic adapter 06619.



Partition, W = 700 mm, for horizontal busbars.



Add-on partition for duct.

Horizontal partitioning

Metal barrier for partitioning of horizontal busbars running across the top or bottom of 700 mm wide Prisma P and PH cubicles.

Extensions for ducts may be added on either side (W = 200, 300 or 400 mm).

Vertical space occupied: three 50 mm.

description	cat. No.
partition, W = 700 mm, for horizontal busbars	
for Prisma P frame: D = 800 mm (400 + 400)	07473
D = 1000 mm (400 + 600)	07474
for Prisma PH frame: D = 1000 mm (500 + 500)	07473 +
	07477
D = 1200 mm (500 + 700)	07474 +
	07477
add-on partition for duct, W = 200, 300 or 400 mm	
for Prisma P frame: D = 800 mm (400 + 400)	07475
D = 1000 mm (400 + 600)	07476
for Prisma PH frame: D = 1000 mm (500 + 500)	07475
D = 1200 mm (500 + 700)	07476

Form 3 in Prisma P and PH cubicles

Form 3 partitioning

A form 3 switchboard includes the following protective elements in addition to form 2 partitioning:

- horizontal barriers to separate functional units from one another
- in-duct connection assemblies (see page ESB110F_5_1710) can be used to separate the downstream terminals from the functional unit.

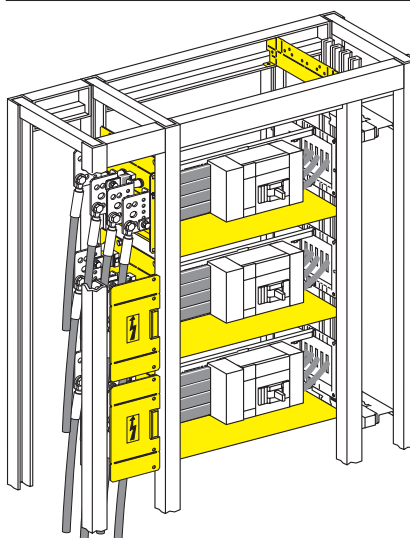
Form 3 partitioning protects personnel working within a switchboard against contact with live parts belonging to adjacent functional units. It also limits the risk of fault propagation between each of the functional units and busbars (via electric arcs or falling objects, e.g. screwdrivers, tools, etc.).



Horizontal partitioning

The metal barriers can be installed in Prisma P and PH cubicles, whatever their depth.

description	cat. No.
form 3 horizontal shield	07445



Form 4 partitioning

A form 4 switchboard is built by adding the following to a form 2 switchboard:

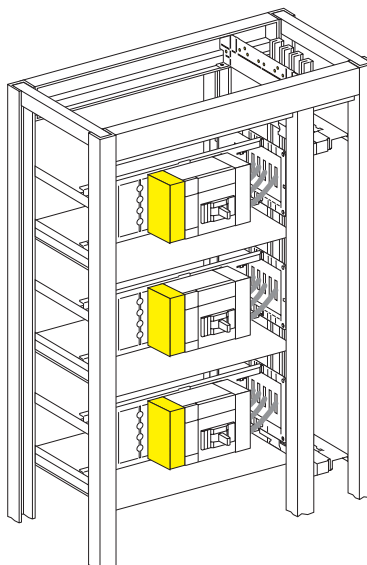
- horizontal barriers to separate functional units from one another (see form 3)
- downstream terminal shields on outgoing devices.

In-duct connection assemblies cannot be used.

Form 4 partitioning protects personnel working within a switchboard against contact with live parts belonging to adjacent functional units, including the terminals for external conductors.

Choice of downstream terminal shields

A range of downstream terminal shields may be ordered with the device.



Front barriers

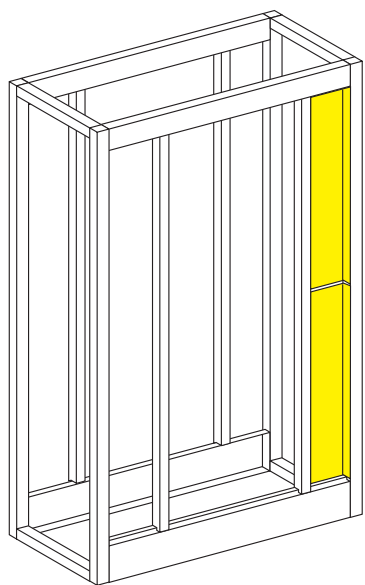
Front barrier for duct

A metal barrier made up of two 850 mm high components, with ready-to-cut openings at each end. The barrier is supplied with:

- a fuse-carrier mounting plate designed to take 4 Pratic adapters
- a Pratic adapter **06619**

This barrier is used to obtain form 2 separation when devices are mounted on the wicket door of the duct (indicator lights, push buttons, etc.).

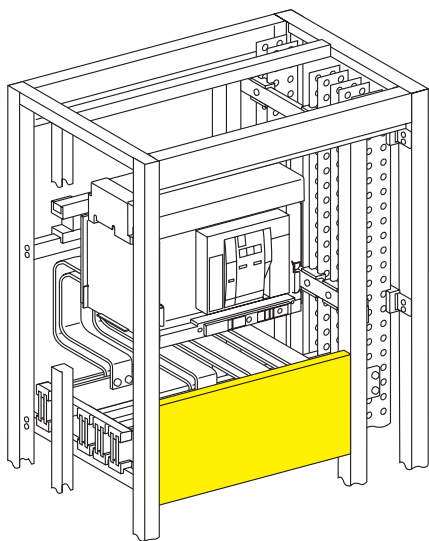
description		cat. No.
front barrier for duct for Prisma P cubicle	W = 200	07432
	W = 300	07443
	W = 400	07440
for Prisma PH cubicle	W = 300	07430



Barrier for transfer busbars

Black insulated barrier, 3 mm thick.

description		cat. No.
barrier for transfer busbars		07444



Current distribution and accessories

Current distribution

Linery busbars up to 1600 A	90
Choice of linergy supports	94
Flat busbars up to 3200 A,	95
Choice of supports for flat busbars	97
Choice of supports for vertical flat busbars	99
Busbars at rear of cubicle	100
Insulated flexible copper straps, earth/neutral bar	102
Connection	
Hardware	103
Polypact distribution block	104
Distribloc 125/160 A	106
Multiclip distribution blocks	109
Comb busbars for DPN, SFT and C60 devices	112
Comb busbars for NG125	114
2P auxiliary bus duct 100 A connection	115
On-site connection, Cable securing	116
On-site connection, Cable connection	117
Cable running	119

Accessories

Air conditioning accessories	121
Other accessories	124
Special locking fixtures	126



Linery is a set of vertical busbars. Like all vertical busbars, it is usually fitted in a lateral duct, $W = 200 \text{ mm}$, located to the left or right of the device installation area. It offers total accessibility to the various connection points from the front. The busbars are channelled copper sections. The continuous channel makes it possible to connect to the busbars at any point without holes. The bars are secured to the frame using supports that are staggered to provide direct access to all busbars connection points from the front of the switchboard. Three supports over the full height are sufficient for most installations.



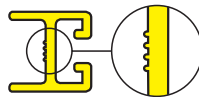
Installation flexibility

Linery busbars come in five different sections: $L = 1700 \text{ mm}$

■ Linergy 630 / 800 / 1000 / 1250 / 1600.

They offer:

- a continuous channel over the full height for connection at any point without holes
- maximum ventilation via the cooling ribs
- optimised sections.



Linery 630 A
busbars



Linery 800 A
busbars



Linery 1000 A
busbars



Linery 1250 A
busbars

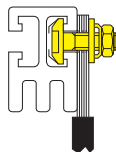


Linery 1600 A
busbars

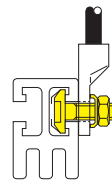


Easy connections

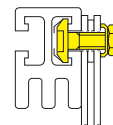
- the heads of Linergy connection bolts fit inside the busbar channel
- a spring holds the bolt at the connection point and keeps it from falling into the switchboard
- a mark on the end of the bolt indicates that the head of the bolt is properly positioned
- the M8 bolt diameter is suitable for all prefabricated connections of the Prisma system.



Connection with copper straps



Connection with cables

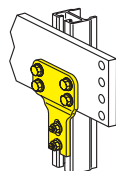


Connection with copper bars

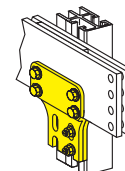


Prefabricated electrical connections

Fully-tested prefabricated copper connections make a direct electrical connection between the horizontal busbars, on 75 mm centres, and vertical Linergy busbars. They are supplied with the corresponding mounting hardware.



Prefabricated connection 1000 A

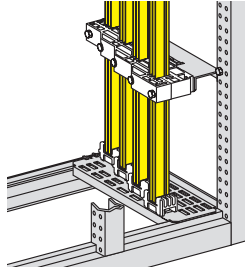


Prefabricated connection 1600 A



Easy installation

- a bottom support holds the busbars in place
- the counter-support can then be mounted without having to hold the busbars.

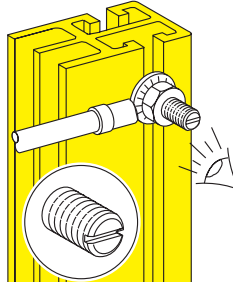


The busbar support and bottom support hold the 4 Linergy busbars.



Connection points wherever required

The channel inside the busbar makes it possible to connect to any point along the full height of the busbar.



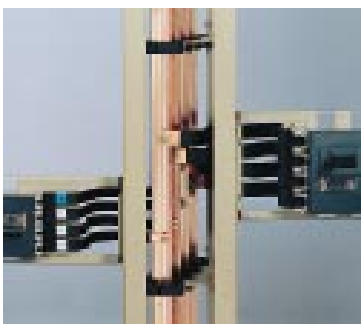
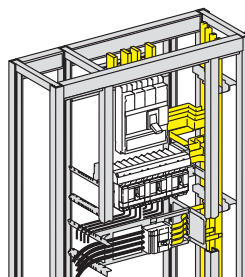
A mark on the end of the bolt indicates that the head of the bolt is properly positioned.



Totally accessible from the front

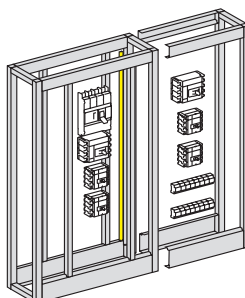
The staggering of the bars provides direct access to all connection points from the front of the switchboard.

- connection of an incoming device via copper bars to supply the busbars
- connection via flexible copper straps to supply a Polypact distribution block, Multiclip rail or circuit breaker mounted horizontally.



Distribution on both sides

When an extension frame is added to the basic frame, special prefabricated connections may be used to supply devices on both sides of the busbars. This new type of connection has undergone full mechanical and electrical testing in our approved laboratories to guarantee trouble-free switchboard operation under the most severe conditions.



Basic frame combined with an extension frame.

Choice of Linerygy busbars



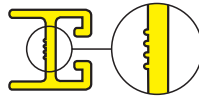
The following table indicates:

- different models of Linerygy busbars to use as a function of the current rating of the incoming device
- the number of supports to use as a function of the rated short-time withstand current I_{cw} (kA rms/1s).

Catalogue numbers

In incomer (A)	1 busbar for cubicle with		number of supports as a function of rated short-time withstand current I_{cw} (kA rms/1s)						
	IP ≤ 30	IP ≥ 31	25	30	39	52	60	66	85
570		07361	3						
630	07361		3						
630		07362	3	3					
750	07362	07362	3	3					
800	07362		3	3					
800		07363	3	3	3				
900	07363	07363	3	3	3				
1000	07363		3	3	3				
1000		07364	3	3	3	3	3		
1050	07364	07364	3	3	3	3	3		
1250	07364		3	3	3	3	3		
1250		07365	3	3	3	3	3	4	6
1450	07365	07365	3	3	3	3	3	4	6
1600	07365		3	3	3	3	3	4	6

Note: When the supply to the switchboard is made via cables directly to the Linerygy busbars, add a busbar support.



Linerygy 630 busbars
Cat. No. : 07361



Linerygy 800 busbars
Cat. No. : 07362



Linerygy 1000 busbars
Cat. No. : 07363



Linerygy 1250 busbars
Cat. No. : 07364

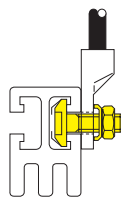


Linerygy 1600 busbars
Cat. No. : 07365

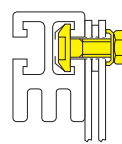
Nuts and bolts



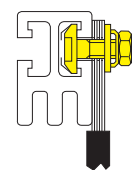
set of 20 bolts	cat. No.
(bolt L = 23 mm + nut + contact washer) for connection with cable lugs	07368
(bolt L = 33 mm + nut + contact washer) for connection with copper bars	07369
(bolt L = 23 mm + nut + contact washer) for connection with copper straps	07370



07368



07369



07370

1000/1600 A connection



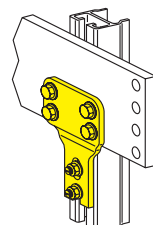
07407



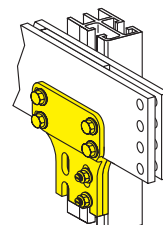
07408

Prefabricated copper connections for connecting horizontal busbars, on 75 mm centres, to vertical Linerygy busbars. Supplied with mounting hardware.

description	cat. No.
1 connection Linerygy 1000 A horizontal busbars	07407
1 connection Linerygy 1600 A horizontal busbars	07408



Prefabricated connection 1000 A



Prefabricated connection 1600 A

PE conductors



The PE conductor comprises:

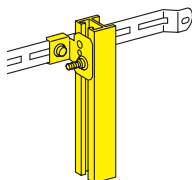
- a Linergy busbar
- 3 brackets for direct connection to cable tie bars
- 20 connection points for Linergy busbars
- 1 PE marker.

description

PE conductor

cat. No.

07428



PE conductor

PEN conductors



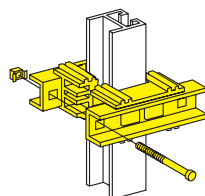
The PEN conductor installation kit includes a set of 3 insulated supports that can be secured to the cable tie bars. The kit comes with labels and a neutral disconnecting device.

description

installation kit for PEN conductor

cat. No.

07429



PE conductor

Phase markers

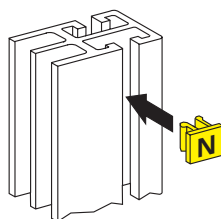


description

set of 12 phase markers
(12 clip-on supports + labels N, L1, L2, L3, L+, L-, PE, PEN)

cat. No.

07350



07350

Tab connectors



tab connectors

set of 20 M10 tab connectors for 6.35 mm tab receptacles

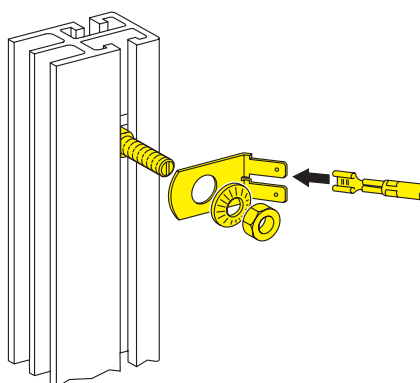
cat. No.

07048

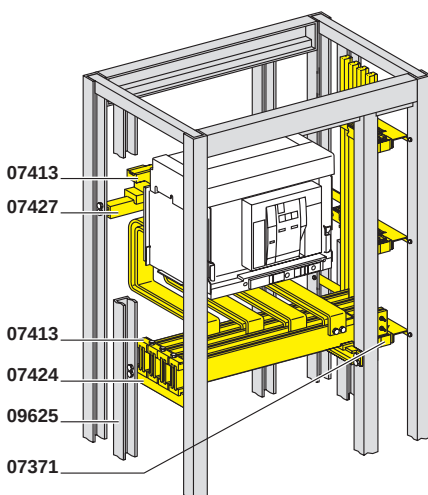
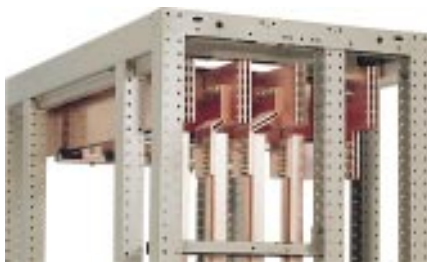
set of 20 M16 tab connectors for 6.35 mm tab receptacles

07049

For direct connection of small cable lugs (low power cables or measurement connections), fit a conducting washer between the Linergy busbar and the lug.



07048



Linery busbars, supplied by a 1600 A Masterpact NW16 drawout circuit breaker via transfer busbars.

Incoming device:

Compact circuit breaker

Masterpact NT 06/16 circuit breaker

Cubicle types:

- Prisma P, depth = 400 mm
- Prisma PH, depth = 500 mm.

Busbar layout



Linery busbars

description		cat. No.
Linery busbar supports for Prisma	P, D = 400	07371
	PH, D = 500	07490
Linery bottom support for Prisma	P, D = 400	07373
	PH, D = 500	07492

Transfer busbar support

The bars are secured to 2 cross-members by 2 insulated supports

description		cat. No.
set of 2 side cross-members		07424
insulated support	2 x	07413

Terminal extension bar support

The bars are secured to a rear cross-member by an insulated support.

description		cat. No.
1 rear cross-member		07427
1 insulated support		07413

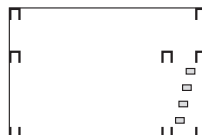
Incoming device:

Masterpact NW 08/16 circuit breaker (1600 A)

Cubicle type:

- Prisma P, depth = 600 mm
- Prisma PH, depth = 700 mm.

Busbar layout



Linery busbar

description		cat. No.
Linery busbar supports for Prisma	P, D = 600 (1)	07371
	PH, D = 700	07491
Linery bottom support for Prisma	P, D = 600	07374
	PH, D = 700	07493

(1) Linery busbar supports should be mounted on a functional upright installed in the duct.

description	cat. No.
Set of 2 functional uprights	09625

Transfer busbar support

The bars are secured to 2 cross-members by 2 insulated supports.

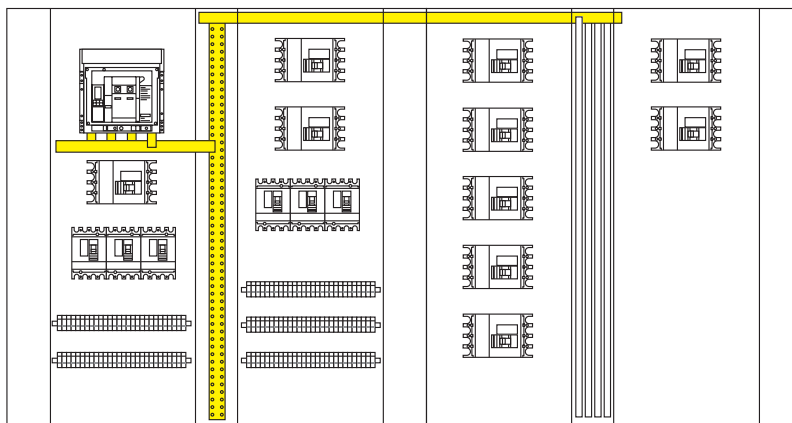
description		cat. No.
set of 2 side cross-members		07424
insulated support	2 x	07413

Terminal extension bar support

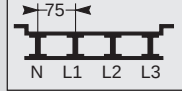
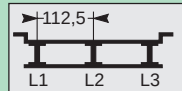
The bars are secured to a rear cross-member by an insulated support.

description		cat. No.
1 rear cross-member		07427
1 insulated support		07413

Selecting the main busbars



1. According to the rated current, select the number and the cross-section of the bars for one phase (3 max. per phase) in **table A**.
2. According to the short-circuit current $I_{sc\ rms}$ (kArms/1s), select in **table B** the maximum distance between the busbar support centres. Determine the number of supports required.
3. **Table C** indicates the required distance between phase and neutral center lines and the required type of frame.

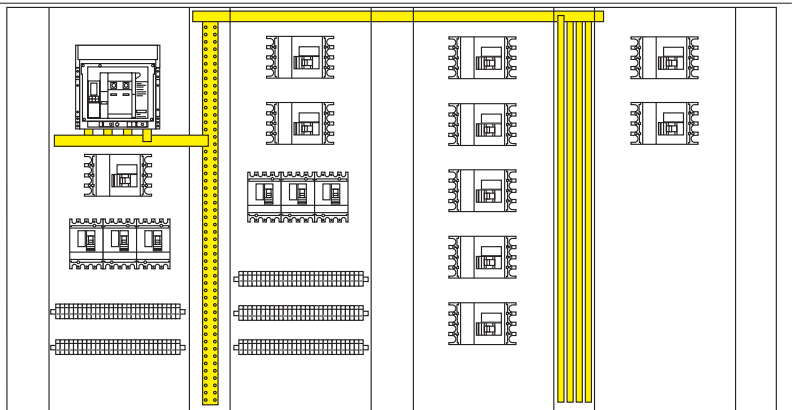
table A					table B										table C
	permissible (1) current (A)		number of bars per phase	cross-section (mm)	maximum distance between busbar support centres (mm)										distance between phase and neutral centre lines
	IP ≤ 30	IP ≥ 31			I _{scw} (kArms/1s)										
					12	23	30	39	52	66	69	75	85		
In ≤ 1650 A	650	600	1	50 x 5	475	250	175							Prisma P cubicle: D = 400 Prisma PH cubicle: D = 500 	
	750	700	1	63x 5	550	275	200	150							
	1000	900	1	80 x 5	625	325	250	175	125						
	1150	1000	2	50 x 5	1 000	725	550	425	275	175					
	1200	1050	1	100 x 5	725	375	275	225	150	125					
	1350	1200	1	125 x 5	850	425	325	250	175	150	125	125			
	1350	1150	2	63x 5	1000	850	650	500	275	175	150	125	100		
	1650	1450	2	80 x 5	1000	975	750	525	300	175	175	125	100		
	1750	1600	3	63 x 5	1000	1000	725	550	350	225	175	150	125		
	1900	1600	2	100 x 5	1000	1000	650	400	325	225	175	150	125		
In ≤ 3200 A	1750	1600	3	63x 5	1000	1000	1000	725	400	250	225	175	150	Prima P cubicle: D = 600-800-1000 Prisma PH cubicle: D = 700-1000-1200 	
	1900	1600	2	100 x 5	1000	1000	1000	775	425	275	250	200	150		
	2150	1950	2	125 x 5	1000	1000	1000	825	450	275	250	200	175		
	2150	1900	3	80 x 5	1000	1000	1000	750	400	250	225	175	150		
	2550	2200	3	100 x 5	1000	1000	1000	775	425	250	250	200	150		
	3200	2800	3	125 x 5	1000	1000	1000	800	450	275	250	200	175		

(1) The permissible current values are given for an ambient temperature of 35 °C.

■ for higher temperatures up to 50 °C, derate 12 % for IP 20 and 15 % for IP 54

■ for lower temperatures not below 25 °C, uprate 6 % for IP 20 and 5 % for IP 54.

Selecting the secondary busbars



The secondary or distribution busbars can be sized to the actual load current, since the devices connected to these bars are not necessarily used at full load or at the same time.

Consequently, in compliance with standard practice taking the diversity factor into account (§ 4.7 and 7.3 of standard EN 60439-1), the current rating of these bars may be less than the sum of the current ratings of the various circuit-breakers supplied by them.

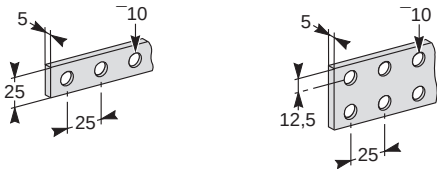
For further details concerning the selection of secondary busbars, see page 144.

Drilled copper bars



cross-section	L (mm)	cat. No.
25 x 5	1750	07401
50 x 5	1750	07402
63 x 5	1750	07403
80 x 5	1750	07404
100 x 5	1750	07405
125 x 5	1750	07406

An overlap of 25 mm is required when joining bars together.

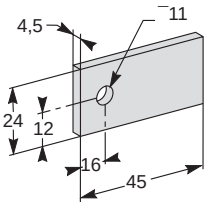


Steel bar spacers

Accessories

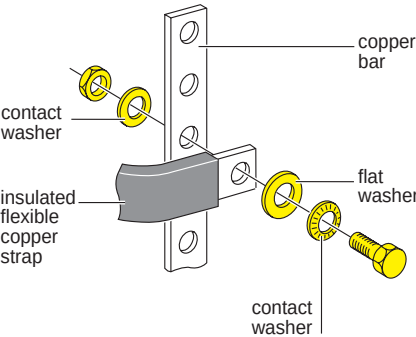
description	cat. No.
100 steel spacers for busbars	07410

For insertion between 2 bars belonging to the same phase (for example to reinforce the phase assembly at a lug connection point).



8/8 class bolts

See page 102



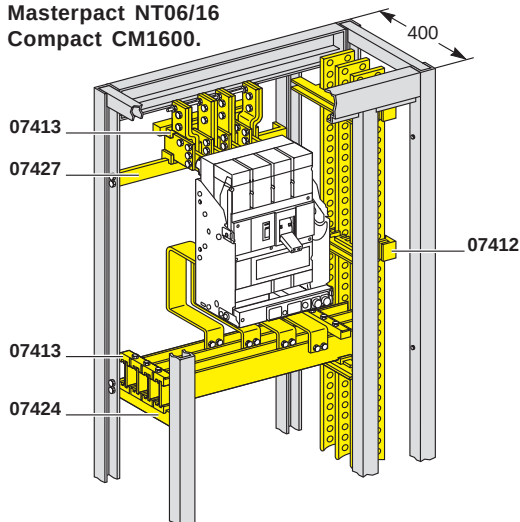
Up to 1600 A

Incoming device:

Compact C801/1251

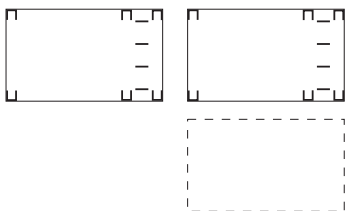
Masterpact NT06/16

Compact CM1600.

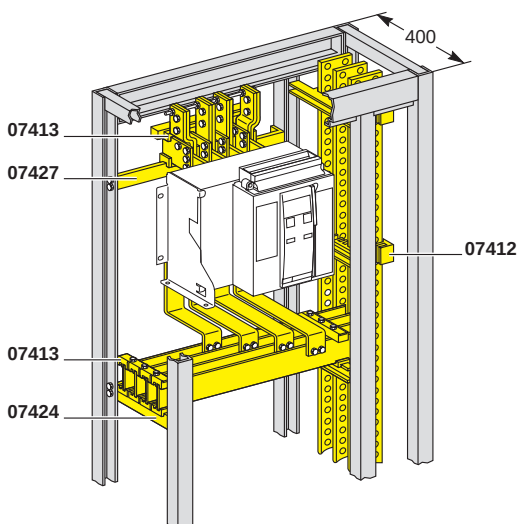


Compact C1001N drawout circuit breaker supplying 1600 A busbars in a 400 mm depth Prisma P cubicle (17 modules).

Busbar layout



Distance between busbar centres: 75 mm.



Masterpact NT fixed, supplying 1600 A flat busbars in a 400 mm depth Prisma P cubicle.

Vertical busbars

Cubicle types:

■ Prisma P, depth = 400 mm

■ Prisma PH, depth = 500 mm.

The busbars are fitted in the duct. It consists of bars 5 mm thick and insulated supports.

Busbar layout

description	cat. No.
No. for Prisma frame	P, D = 400
	07412
	PH, D = 500
	07485

Bottom support

description	cat. No.
No. for Prisma frame	P, D = 400
	07414
	PH, D = 500
	07495

Transfer busbar support

description	cat. No.
set of 2 side cross-members (P and PH frames)	07424
busbar supports (P and PH frames)	2 x 07413

Terminal extension bar support

description	cat. No.
1 rear cross-member (P and PH frame)	07427
1 busbar support (P and PH frames)	07413

Note:

■ for horizontal transfer busbars, order a set of 2 side cross-members (07424) and 2 busbar supports (07413 x 2)

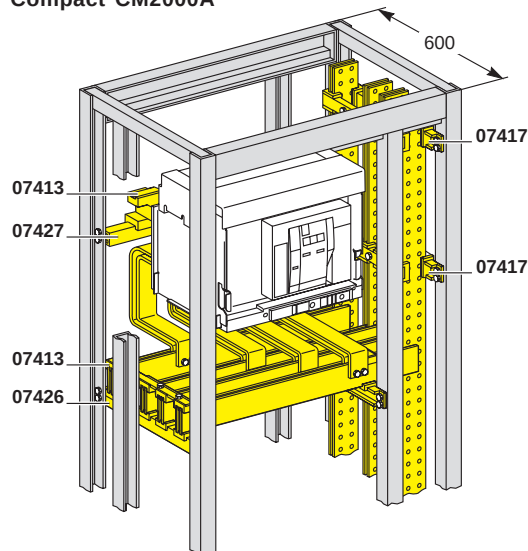
■ to secure terminal extension bars connecting an incoming device, order a rear cross-member (07427) and a busbar support (07413)

■ all busbar supports are supplied with the corresponding hardware.

Choice of supports for flat busbars

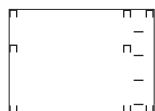
Up to 2000 A

Incoming device:
Masterpact NW08/20
Compact CM2000A



Masterpact NW20 drawout circuit breaker supplying 2000 A busbars in a 600 mm wide Prisma P cubicle (18 modules).

Busbar layout



Distance between busbar centres: 112.5 mm.

Vertical busbars

Cubicle types:

- Prisma P, depth = 600 mm
- Prisma PH, depth = 700 mm.

Busbar layout (1)

description	cat. No.
for Prisma frame P, D = 600	07417
PH, D = 700	07487

(1) The quantity to order is equal to the number of supports determined using the table on page ESB110E_5_1320.

Bottom support

description	cat. No.
for Prisma frame P, D = 600	07418
PH, D = 700	07497

Transfer busbar support

description	cat. No.
set of 2 side cross-members (P and PH frames)	07426
busbar supports (P and PH frames)	2 x 07413

Terminal extension bar support

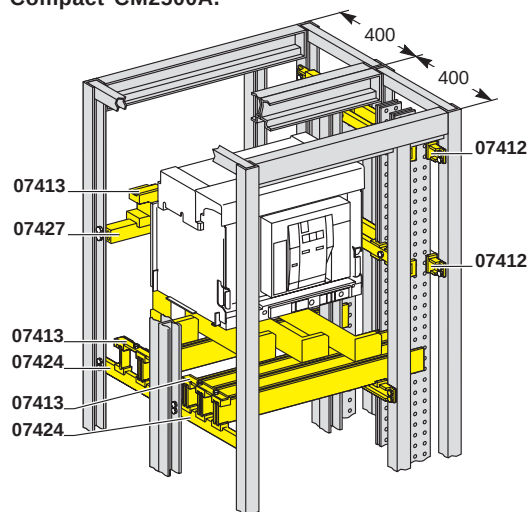
description	cat. No.
1 rear cross-member (P and PH frames)	07427
1 busbar supports (P and PH frames)	07413

Note:

- for horizontal transfer busbars, order a set of 2 side cross-members (07426) and 2 busbar supports (07413 x 2)
- to secure terminal extension bars connecting an incoming device, order a rear cross-member (07427) and a busbar support (07413)
- for cubicles combining a basic frame and an extension frame, the vertical busbars, located between the two cubicles, must be installed in a 400 mm wide duct, if the width of the busbars exceeds 80 mm
- all busbar supports are supplied with the corresponding hardware.

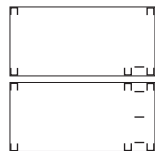
Up to 2500 A

Incoming device:
Masterpact NW08/25
Compact CM2500A.



Masterpact NW25 circuit breaker supplying 2500 A busbars in a 800 mm wide Prisma P cubicle (22 modules).

Busbar layout



Distance between busbar centres: 112.5 mm.

Vertical busbars

Cubicle types:

- Prisma P, depth = 800 mm
- Prisma PH, depth = 1000 mm.

Vertical busbar supports (1)

description	cat. No.
for Prisma frame P, D = 800	2 x 07412
PH, D = 1000	2 x 07485

(1) The quantity to order is equal to the number of supports determined using the table on page ESB110E_5_1320.

Bottom support

description	cat. No.
for Prisma frame P, D = 800	2 x 07414
PH, D = 1000	2 x 07495

Transfer busbar support

description	cat. No.
set of 2 side cross-members (P and PH frames)	2 x 07424
busbar supports (P and PH frames)	4 x 07413

Terminal extension bar support

description	cat. No.
1 rear cross-member (P and PH frame)	07427
1 busbar support (P and PH frames)	07413

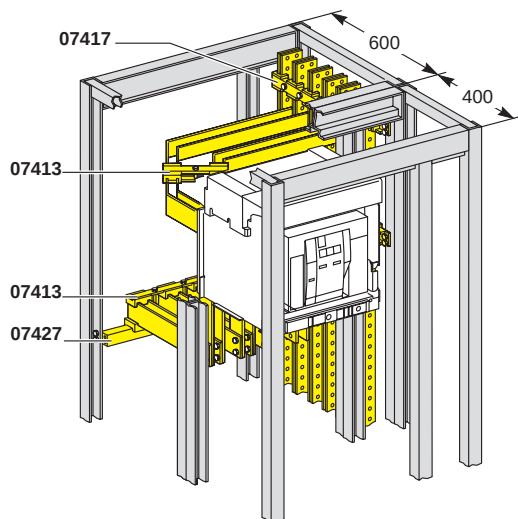
Note:

- for horizontal transfer busbars, order 2 sets of 2 cross-members (07424 x 2) and 4 supports (07413 x 4)
- to secure terminal extension bars connecting an incoming device, order a rear cross-member (07427) and a busbar support (07413)
- all busbar supports are supplied with the corresponding hardware.

Choice of supports for vertical and horizontal flat busbars

Up to 3200 A

Incoming device:
Masterpact NW32.



Masterpact NW32 drawout circuit breaker supplying 3200 A busbars in a 1000 mm wide Prisma P cubicle (11 modules).

Vertical busbars

Cubicle types:

- Prisma P, depth = 1000 mm
- Prisma PH, depth = 1200 mm.

Busbar layout



Distance between busbar centres: 112.5 mm.

Vertical busbar supports (1)

description	cat. No.
for Prisma frame P	07417
PH	07487

(1) The quantity to order is equal to the number of supports determined using the table on page ESB110E_5_1320. Supplied with the corresponding hardware.

Bottom support

description	cat. No.
for Prisma frame P	07418
PH	07497

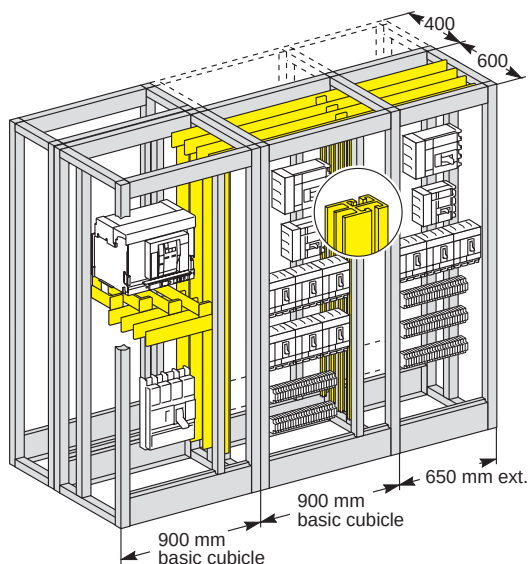
Terminal extension bar support

description	cat. No.
1 side cross-member (P and PH frames)	07427
1 busbar support (P and PH frames)	07413

Note:

- to secure terminal extension bars supplying an incoming device, order a rear cross-member (07427) and a bar support (07413)
- all busbar supports are supplied with the corresponding hardware.

Up to 3200 A



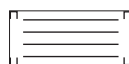
Masterpact NW32 drawout circuit breaker supplying 3200 A horizontal busbars in a 1000 mm wide Prisma P cubicle.

Horizontal busbars

Cubicle types: Prisma P and Prisma PH cubicles, all depths.

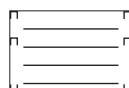
Busbar layout

1600 A distance between bar centres: 75 mm



Prisma P, D = 400,
Prisma PH, D = 500

2500 A distance between bar centres: 112,5 mm

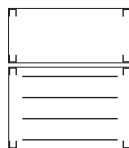


Prisma P, D = 600,
Prisma PH, D = 700



Prisma P, D = 800,
Prisma PH, D = 1000

3200 A distance between bar centres: 112,5 mm



Prisma P, D = 1000,
Prisma PH, D = 1200



Prisma P, D = 1000,
Prisma PH, D = 1200

Height requirements for horizontal busbars

■ horizontal busbars alone

- 75 or 112,5 mm centres:
- horiz. bars $W \leq 80$ mm: 2 modules
- horiz. bars $W \geq 100$ mm: 3 modules

■ horizontal busbars + connection to vertical Linergy busbars

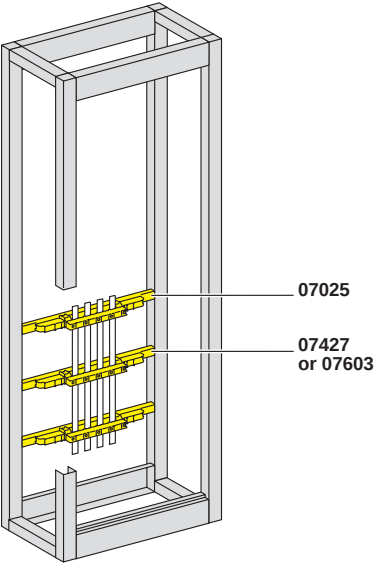
- 75 mm between centres:
- horiz. bars $W \leq 80$ mm: 2 modules
- horiz. bars $W \geq 100$ mm: 3 modules
- 112.5 mm between centres:
- horiz. bars $W = 50$ mm: 3 modules
- horiz. bars $W \geq 63$ mm: 4 modules

Horizontal busbar supports (1)

for Prisma frame P	D = 400	07411
	D = 600	07416
for Prisma frame PH	D = 500	07485
	D = 700	07487

(1) Supplied with the corresponding hardware.

Up to 400 A



- Cubicle type:
- Prisma P, D = 400
 - Prisma PH, D = 500.

The busbars are 15, 20 or 32 mm wide and 5 mm thick, with M6 threaded holes on 25 mm centres. They are mounted on insulating supports that may either be:

- screwed onto a rear cross-member
- or clipped onto a Multifix rail.

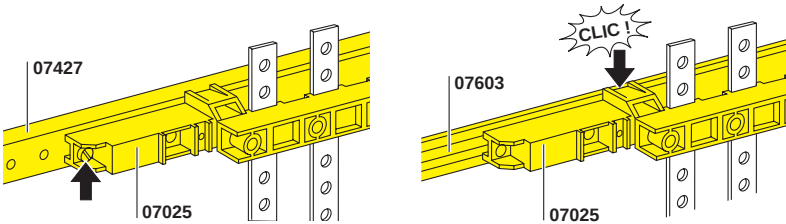
A fifth bar can be added for an earth connection with a cross-section of 15 x 5 or 20 x 5 mm.

description		cat. No.
busbar support		07025
Multifix rail		07603
rear cross-member		07427

copper bars:

length	cross-section	cat. No.
4 copper bars L = 1000 mm	15 x 5 (160 A)	07021
	20 x 5 (250 A)	07022
	32 x 5 (400 A)	07023
4 copper bars L = 1400 mm	15 x 5 (160 A)	07017
	20 x 5 (250 A)	07018
	32 x 5 (400 A)	07019

Note:
The distance between busbar support centres depends on the rated short-time withstand current I_{cw} (kA rms/1s).



Support 07025 screwed onto rear cross member.

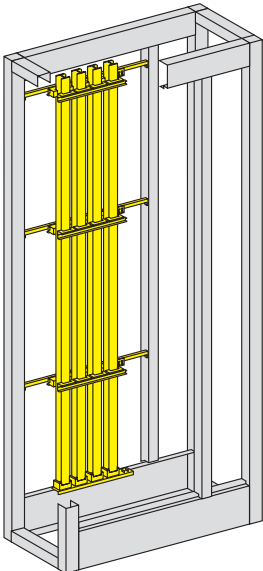
Support 07025 clipped onto Multifix rail.

Distance between support centres

permissible current (A)	bar cross-section (mm)	distance between busbar support centres (1)				
		I _{cw} in kA rms/1s				
		10	13	15	20	25
160	15 x 5	450				
250	20 x 5	450	450	450		
400	32 x 5	450	450	450	300	225

(1) Multiclip distribution blocks (with a maximum distance between centres of 200 mm) may act as intermediary supports.

Up to 1600 A



- Cubicle type:
- Prisma P, depth = 400
 - Prisma PH, depth = 500.

Linery bars are secured to insulated supports attached directly to the frame. A bottom support is used to position the bars and hold them in place during installation.

description		cat. No.
Linery busbars support (P, PH)		07498
Linery bottom support	P	07499
	PH	07499 + 07427

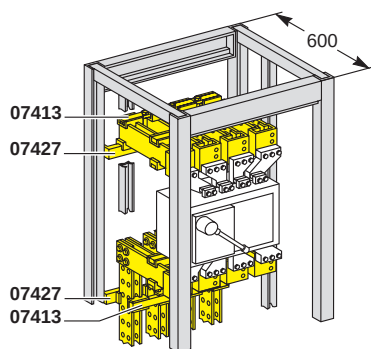
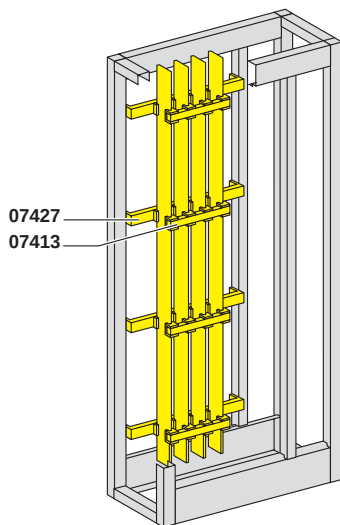
Linery copper busbars: see page 96

Number of Linery busbar supports

In	23 kA	30 kA	39 kA	52 kA
630 A	3			
800 A	3	3		
1000 A	3	3	3	
1250 A	3	3	3	5
1600 A	3	3	3	5

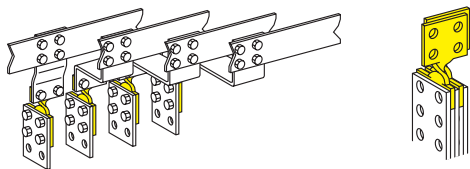
The number of supports to use depends on the rated short-time withstand current I_{cw} (kA rms/1s).

Up to 3200 A



Important :

These busbars cannot be mounted with certain Compact and Vigicompact devices.
The table below indicates their limits.



1600 A in cubicle:

- Prisma P, D = 400
- Prisma PH, D = 500.

2500 A in cubicle:

- Prisma P, D = 600 and 800
- Prisma PH, D = 700 and 1000.

3200 A in cubicle:

- Prisma P, D = 1000
- Prisma PH, D = 1200.

The 5 mm thick bars are fixed to the insulating supports. Each support is mounted on a rear cross-member.

description	cat. No.
rear cross-member	07427
busbar support	07413
copper bars: see page 95	

Distance between busbar support centres

See table page 95.

Compact installation possibilities in cubicles equipped with rear busbars

Compact and Vigicompact all ratings:

front cover	busbar width (mm)	without motor mechanism				with motor mechanism			
		N, H	plug-in	L fixed	plug-in	N, H	plug-in	L fixed	plug-in
front plate	25-50	4	4	4	4	4	4 (1)	6	6
support door	63	4	4	4	6	4	6	4	6
	80	4	4	4	6	4	6	4	6
	100	4	4	4	6	4	6	6	6 (1)
	125	4	4	4	6	4	6	6	
front plate	25-50	4	4	4	6	4	6	6	6
support	63	4	4	4	6	4	6	6	6
uprights	80	4	4	4	6	4	6	6	6 (1)
+ door	100	4	4 (1)	4	6	4	6	6	
	125	6	6	6	6	6	6	6	

(1) Compact NS 100/250 circuit breakers only.

Caption:

fixed = fixed device, front connection.

plug-in = plug-in device, rear connection.

4 = mounting possible in Prisma P, D = 400,

6 = mounting possible in Prisma P, D = 600.

Connection of horizontal busbars to busbars at rear of cubicle, 1600 A maximum

This connection is made using right-angle splices:

- 1 splice for busbars with 1 or 2 bars per phase
- 2 splices for busbars with 2 or 3 bars per phase.

This connection, together with the horizontal busbars at the top or bottom of the cubicle, takes up:

- 3 modules (H = 150 mm) for horizontal bars (25 x 5 to 100 x 5)
- 4 modules (H = 200 mm) for horizontal bars (125 x 5).

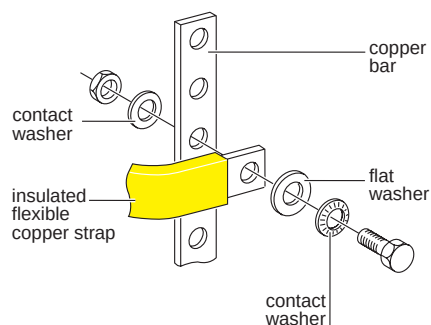
description	cat. No.
4 right-angle splices	07409
permissible current (A)	IP20/30/43
1 splice	1000
2 splices	1650
	IP54/55
	900
	1450

Connection

Insulated flexible copper straps

Earth/neutral bar

Flexible copper straps



Flexible copper straps L = 1750 mm, with insulated covering.

■ for circuit breakers (or contactors with the same rating), switches, fuse switches, Polypact distribution blocks and Multiclip.

devices	cross-section (mm) (1)	cat. No.
NS100/160	20 x 2	07071
NS250	20 x 3	07070
NS400	32 x 5	07074
NS630	32 x 8	07075
INS and IN125/160	20 x 2	07071
IN250	20 x 3	07070
IN400	32 x 5	07074
IN630	32 x 8	07075
Multiclip	20 x 2	07071
Polypact 3P	24 x 8	07077
Polypact 4P	24 x 6	07076
Fupact 250	24 x 5	07073
Fupact 400	32 x 5	07074
Fupact 630	32 x 8	07075

■ for disconnectors, busbar to busbar connections.

maximum Ie (A)	cross-section (mm) (2)	cat. No.
200	20 x 2	07071
220	24 x 2	07072
250	20 x 3	07070
400	24 x 5	07073
480	24 x 6	07076
520	32 x 5	07074
580	24 x 8	07077
660	32 x 8	07075

(1) Cross-section of flexible copper straps calculated as a function of connected switchgear regardless of the internal temperature of the switchboard.

(2) Cross-section calculated for a temperature of 60 °C inside the switchboard.

NB:

The temperature of 60 °C corresponds to the average temperature measured inside the switchboard, when installed in an ambient temperature of 40 °C.

Electrical characteristics

Rated insulation voltage: Ui = 1000 V.

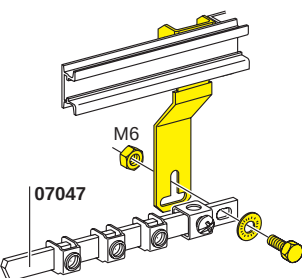
Earth/neutral bar



07047



07067



Installation of earth bar 07047 on special supports 07422 in Prisma P cubicle.

earth/neutral bar 40 clamps	cat. No.
earth/neutral bar 40 clamps distance between screw centres: 450 mm	07047

Installation

■ in Prisma G/GX/GE/GR enclosures, direct installation in horizontal position on functional uprights

■ in Prisma G/GX ducts, installation in vertical position on terminal block supports 07548

■ in Prisma P and PH cubicles, installation in horizontal position using 1 set of 2 supports fixed to the rear of the Multifix rail.

Supplied with

■ 1 connector for rigid or semi-rigid cable 35 mm²

■ 2 insulating spacers for use on a neutral bar

■ mounting hardware.

2 earth/neutral bars with 20 clamps	cat. No.
earth/neutral bar with 20 clamps distance between screw centres: 200 mm	07067

Installation

■ in Prisma P and PH cubicles, installation on 2 supports, to be ordered separately.

Supplied with

■ 1 connector for rigid or semi-rigid cable 35 mm²

■ 2 insulating spacers for neutral bar

■ mounting hardware.

accessories	cat. No.
set of 2 supports for mounting earth/neutral bar in Prisma P and PH cubicles	07422

8/8 class hardware



07027



07028



07026

8/8 class bolts withstand the tightening torque recommended by Schneider. It is possible to achieve very accurate tightening torques and contact pressures that remain within $\pm 10\%$ over time.

Anticorrosion protection (Zn 8c).

For fixing directly to copper bars

set of 40 bolts with 2 contact washers	cat. No.
M6 x 16	07027

For connection of flexible copper straps to copper bars

set of 20 bolts with 2 contact washers and 1 flat washer each	cat. No.
M8 x 20	07028
M8 x 25	07029
M8 x 30	07044

For connection of copper bars or lugs to copper bars

set of 20 bolts with 2 contact washers each	cat. No.
M6 x 20	07026
M10 x 20	07085
M10 x 25	07030
M10 x 30	07086
M10 x 35	07087
M10 x 40	07088
M10 x 45	07089
M10 x 50	07090

Tightening torque values to be used with 8/8 class hardware:

■ electrical connection obtained using 8/8 class hardware (bolt + nut + washers):

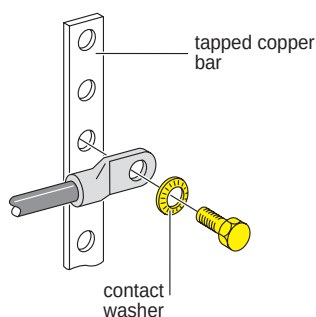
□ M6: 1.3 mdaN

□ M8: 2.8 mdaN

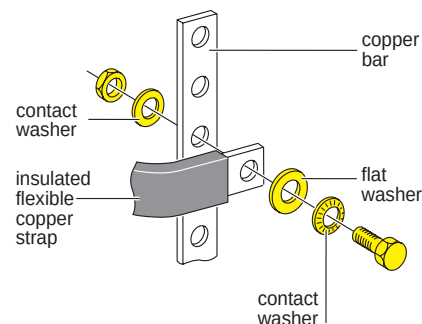
□ M10: 5 mdaN

■ electrical connection obtained using 8/8 class bolt + contact washer screwed directly to 1 tapped copper bar:

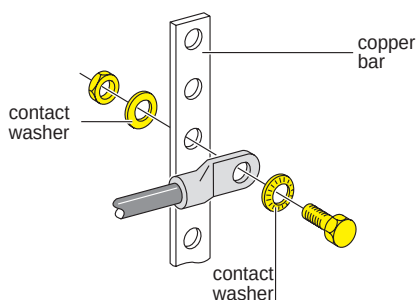
□ M6: 0.52 mdaN.



07027 hardware for fixing a lug to a tapped copper bar



07028 hardware for connecting flexible copper straps to a copper bar



07026 hardware for connecting a lug to a tapped copper bar

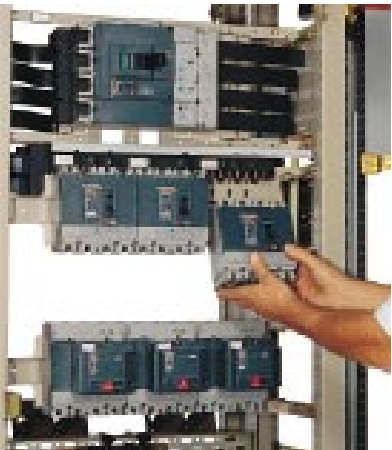
Polypact



07014



07015



Easy connection of a Compact NS circuit breaker to a Polypact distribution block.



The auxiliary wiring is run in trunking.

A Polypact distribution block can be used to supply three 4-pole or four 3-pole Compact NS circuit breakers, ratings 100, 160 and 250 A and types N, H and L, fixed, front-connected.
It connects to the right or left side of Linergy busbars in Prisma P or PH cubicles. It is equipped with systems permitting the passage of control wires (for Compact circuit breaker auxiliaries).
Compact NS circuit breakers connect to the Polypact distribution block from the front with the basic circuit breaker mounting hardware.

2 configurations are possible

- connection in Prisma P cubicle, with Linergy busbar only

description	cat. No.
3P Polypact with connection	07013
4P Polypact with connection	07014

supplied with prefabricated connection mounted.

- connection in Prisma P and PH cubicles

description	cat. No.
3P Polypact without connection	07012
4P Polypact without connection	07015

supplied without prefabricated connection system.

Electrical characteristics

- rated operating current: no temperature derating is required other than the normal temperature derating of Compact NS devices
- rated insulation voltage: 750 V
- rated impulse withstand voltage: $U_{imp} = 8 \text{ kV}$
- short-circuit withstand current compatible with the breaking capacities of Compact NS devices installed on the distribution block.

Supplied with

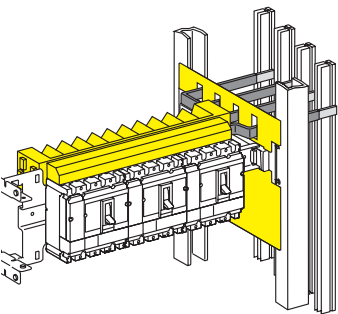
- 1 protective barrier separating devices and busbars (Form 2 partitioning)
- labels for marking the phases
- labels for marking the outgoing circuits
- 1 prefabricated connection system, supplied fully mounted for connection on the right or left to Linergy busbars in a Prisma P cubicle (for 07013 and 07014 only).

Supply

- 07013 and 07014 by prefabricated connection system, supplied fully mounted. Connects directly to Linergy busbars in a Prisma P cubicle
- 07012 and 07015 by flexible copper straps in a Prisma P cubicle equipped with flat busbars and in a Prisma PH cubicle regardless of the type of busbars used. Choice of flexible copper straps: see page 102.

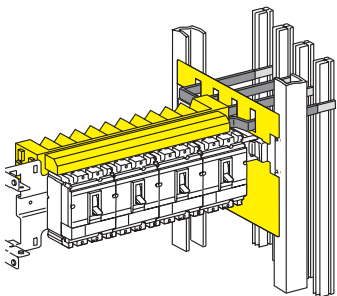
Distribution

See table of configurations opposite.



Maximum configurations possible with a 4-pole Polypact distribution block, whatever the degree of protection of the switchboard.

description		
NS160	NS160	NS160
NS100	NS160	NS250



Maximum configurations possible with a 3-pole Polypact distribution block, whatever the degree of protection of the switchboard.

description			
NS160	NS160	NS160	NS160
NS100	NS160	NS160	NS250

In most types of installation, the temperature around the switchboard is around 40 °C which implies an average temperature of 60 °C inside the switchboard. Under certain conditions, the inside temperature may vary: excessively high temperature around the switchboard, enclosure ventilation, etc. In this case, use the following table to determine the rated operating current for Polypact.

Selection table for special Polypact operating conditions

rated operating current as a function of the internal temperature of the switchboard								
temperature (°C)		40	45	50	55	60	65	70
rated operating	3P Polypact	650	640	620	600	540	500	460
current: Ie (A)	4P Polypact	620	600	540	500	460	380	320

Remark

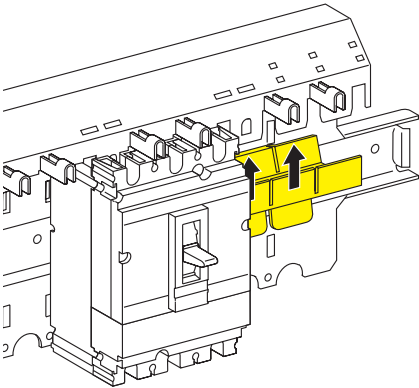
To supply a maximum number of devices using a Polypact distribution block, always take into account the diversity factor K:
■ 3P Polypact: K = 0.8
■ 4P Polypact: K = 0.9.
For further information concerning the diversity factor, see the LV application guide.

Connection covers



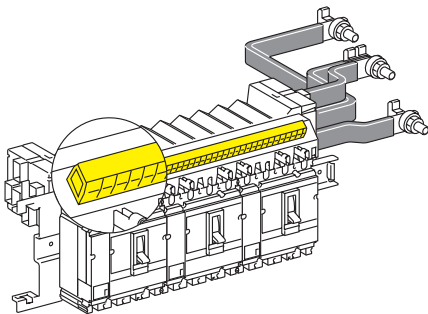
description	cat. No.
Polypact terminal covers	07011

Insulates terminals reserved for future use on a 3P or 4P Polypact distribution block. Made of insulating material. Clipped on directly from the front and easily removed.



Trunking for auxiliary wiring

See page 120



Outgoing circuits are connected from the front, in spring cages.
The contact pressure of the spring is automatically adjusted to suit the cross-section of the conductor.
The pressure is not affected by vibrations and heat variations
Each cage can only accommodate a single flexible or rigid cable, with or without a crimped metal ferrules.
Degree of protection: IPXXB.

Advantages

- reliable, maintenance-free, electrical connection
- very rapid connection
- very simple re-balancing of phases
- easy switchboard extensions or modifications.

Distribloc



3-pole distribution block comprising:

- a fully insulated, one-piece distribution block in compliance with IPXXB requirements (protection against direct contact)
- a modular cover.

Designed with a 45 mm high nose for perfect integration in a row alongside modular devices.

3P Distribloc	cat. No.
Distribloc 125	07105
Distribloc 160	07106

Electrical characteristics

- rated insulation voltage: $U_i = 690\text{ V}$
- rated operating current: $I_e (40^\circ\text{C})$:
 - 125 A for Distribloc 125
 - 160 A for Distribloc 160 with prefabricated connection system for INS160
- rated short-time withstand current: $I_{cw} = 4.5\text{ kA rms/1s}$ in compliance with standard IEC 947.7.1
- peak withstand current: $I_{pk} = 20\text{ kA}$ in compliance with standard IEC 439.1 for detailed table taking into account the cross-section of connecting cables, see page 4
- complies with low voltage switchgear and controlgear standard IEC 947.7.1 and/or IEC 439.1
- rated impulse withstand voltage: $U_{imp} = 8\text{ kV}$.

Supply

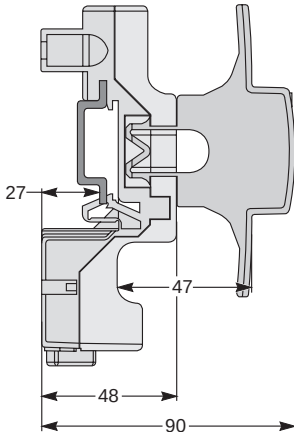
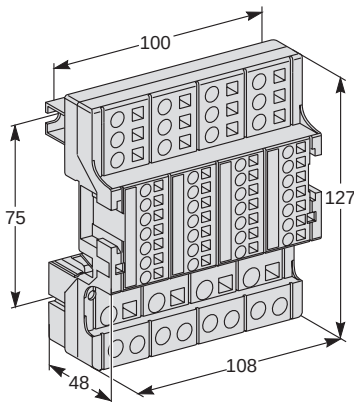
- Distribloc 125 in a tunnel terminal by 6 to 35 flexible cables (10 to 35 rigid)
- Distribloc 160 by a flexible prefabricated connection system supplied with the device. It is designed for connection to an INS100/160 switch, mounted on the left or right.

Distribution (for Distribloc 125 and 160)

- in spring cages:
 - 2 outgoing circuits connected by flexible or rigid cable 1 to 10
 - 3 outgoing circuits connected by flexible or rigid cable 1 to 6
 - 7 outgoing circuits connected by flexible or rigid cable 1 to 4
- in tunnel terminal:
 - 1 outgoing circuit connected by flexible cable 4 to 16 (4 to 25 rigid).

Supplied with

- a label for identification
- self-adhesive labels for marking the various phases
- a flexible prefabricated connection system for use with INS100/160 switches (Distribloc 160 only).



Accessory



Set of 4 flexible connections consisting of insulated copper cables, cross-section 35, L = 210 mm.

Connects an NG125 or any other modular circuit breaker, with or without Vigi, or 1 INS125 switch fitted with ordinary terminals to:

- 1 Distribloc 125 located on the same row
- 1 Distribloc 125 located on the row directly below.

connections 125 A

set of 4 connections 125 A

cat. No.

07054

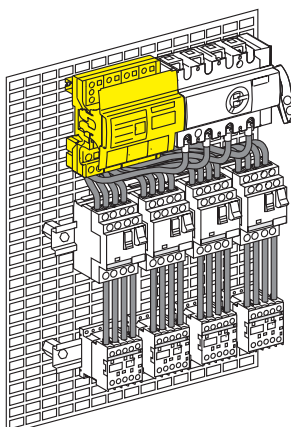
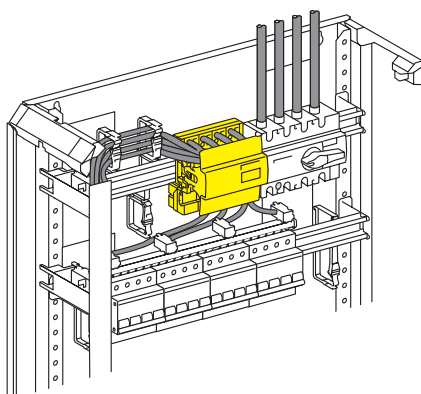
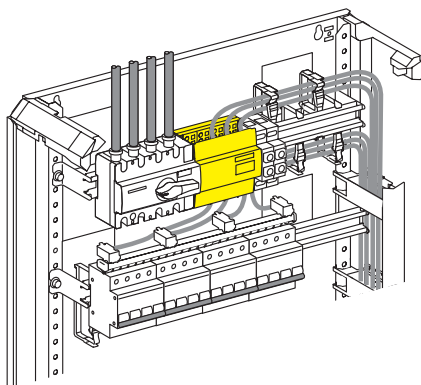


Mounting

- clipped onto Multifix or symmetrical rail
- horizontal space occupied: twelve 9 mm modules
- screwed onto plain or slotted plate. Distance between screw centres: 100 x 75.

Note

Distribloc distribution blocks cannot be installed in Opale, mini-Pragma, Pragma C, Pragma D flush-mounted and EK9 enclosures.



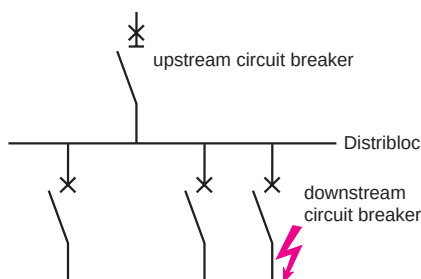
Short-circuit withstand current

The following table indicates the short-circuit withstand current (in kA rms) for various combinations of upstream and downstream devices on a three-phase 380/415 V installation.

down. device	up. device													
	NC100	NS100		NG125				NS125E	NSA160	NS160		NS250		NS400/630
	LH	N	L/H	a	N	H	L			N	L/H	N	L/H	
C60a (5 kA)	50	10	20	16	25	36	50	10	15	15	15/20	15	20	5
C60N (6 kA)	50	25	30	16	25	36	50	15	25	25	30	25	30	10
C60H (10 kA)	50	25	40	16	25	36	50	25	25	30	30	30	30	15
C60L 25 A (25 kA)	50	25	40	16	25	36	50	25	25	30	40	30	40	25
C60L 32-40 A (20 kA)	50	25	40	16	25	36	50	25	25	30	40	30	40	20
C60L 50-63 A (15 kA)	50	25	40	16	25	36	50	25	25	30	40	30	30	15
NC100H (10 kA)	50	25	30	10	10	10	50	25	25	25	30	25	30	10
other devices	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

(1) Check that the peak short-circuit current, which is limited by the downstream device, is lower than the permissible peak current of the terminal cross-section used.

Check that the thermal stress produced by the downstream device does not exceed the permissible thermal stress of the cable used.



Peak withstand current (IEC 439.1).

cross-section of connection terminals (mm ²)	I _{pk}
4	5 kA/60ms
6	11 kA/60ms
10	17 kA/60ms
16	20 kA/60ms

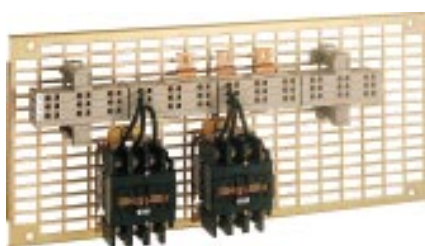
This table indicates the peak withstand current values for connecting cables ranging from 4 to 16 mm².

Outgoing circuits are connected from the front, without screws, in spring cages. The contact pressure of the spring is automatically adjusted to suit the cross-section of the conductor (minimum cross-section 1 mm²). The pressure is not affected by vibrations or heat variations. Each cage can only accommodate a single flexible or rigid cable, with or without a crimped metal ferrules. Degree of protection: IPXXB.

Advantages

- reliable, maintenance-free, electrical connection
- very rapid connection; very simple re-balancing of phases
- easy switchboard extensions or modifications.

Multiclip distribution block



Multiclip distribution block	cat. No.
Multiclip 2P (phase + neutral)	07002
Multiclip 3P (3 phases)	07003
Multiclip 4P (3 phases + 1 neutral)	07004
Multiclip 5P (3 phases + 2 neutral)	07005

Electrical characteristics

- rated operating current:
 - I_e 180 A (40 °C)
 - 220 A (20 °C)
- rated insulation voltage: U_i = 440 V
- rated impulse withstand voltage: U_{imp} = 8 kV
- rated short-circuit withstand current: see page 4.

Supply

Directly to terminals via cable with crimped lug, connector, flexible copper straps (20 x 2 mm) or busbars at the rear of the enclosure.

Distribution

Each phase (+ neutral) comprises 12 connection points for flexible or rigid 6 cable, with or without crimped metal ferrules.

Installation

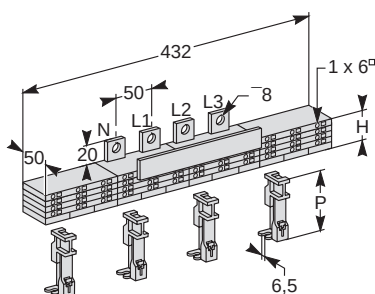
- clipped to the rear of the Multifix rail. In this way, the supply terminals of the Multiclip are in direct contact with the busbars at the rear of the enclosure or cubicle
- screwed to plain or slotted mounting plates.

Supplied with

- prestripped connection cables 40 A:
 - 24 connections for Multiclip 2P, 3P and 4P distribution blocks
 - 48 connections for Multiclip 5P distribution blocks.

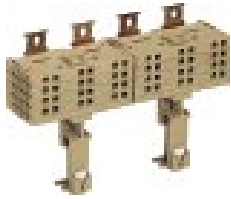
accessories	cat. No.
Multiclip wiring cover	07331

protects wires and prevents direct access to the terminals of modular devices.



dimensions	2P	3P	3P + N	3P + 2N
H	28	38	48	58
P	70 + 5	80	80	70

Multiclip 1/2 row distribution block



Multiclip 1/2 row distribution block

Multiclip 1/2 row 3P distribution block

cat. No.

07008

Supply

Directly to terminals via cable with crimped lug, connector or flexible copper straps (20 x 2 mm).

Distribution

4 poles comprising 6 connection points for flexible or rigid 6 cable, with or without crimped metal ferrule.

Installation

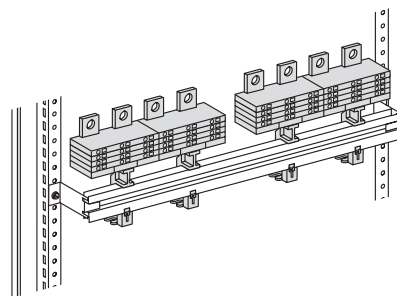
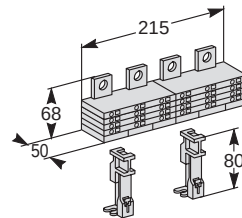
Clipped to the rear of the Multifix rail.

Supplied with

- a set of labels (neutral, phase 1, 2 and 3, and earth)
- 12 prestripped connections 40 A
- a cover to protect incoming circuits.

Electrical characteristics

Same as Multiclip.



Short-circuit withstand current

The following table indicates the short-circuit withstand current (in kA rms) for various combinations of upstream devices, Multiclip and downstream devices on a 380/415 V installation.

downstream device	short-circuit withstand current in kA rms, depending on upstream device:															
	NC100	NSA125 NS125	NG125				NS100			NS160			NS250			NS400/630/
	LH	E	a	N	H	L	N	H	L	N	H	L	N	H	L	
C60a (5 kA)	50	10	16	25	36	50	15	20	20	15	20	15	15	20	20	5
C60N (6 kA)	50	15	16	25	36	50	25	30	30	25	30	30	25	30	30	10
C60H (10 kA)	50	15	16	25	36	50	25	40	40	30	30	30	30	30	30	15
C60L 25 A (25 kA)	50	15	16	25	36	50	25	40	40	30	40	40	30	40	40	25
C60L 32-40 A (20 kA)	50	15	16	25	36	50	25	40	40	30	40	40	30	40	40	20
NC100H (10 kA)	50	10	10	10	10	50	25	30	30	25	30	30	25	30	30	10
other devices	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

(1) Check that the peak short-circuit current, limited by the downstream device, is lower than 12 kA.

Check that the thermal stress delivered by the downstream device does not exceed the permissible thermal stress of the 6 mm² cable (4.76 x 105 A2s).



1st example

Incoming circuit:

NS250N circuit breaker.

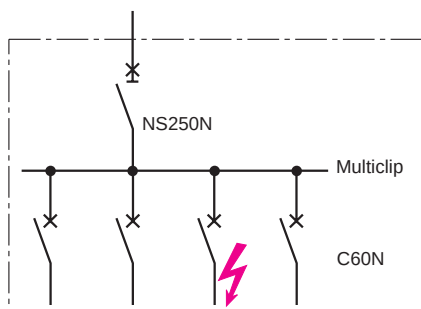
Outgoing circuits:

Multi 9 C60N circuit breakers.

Can a Multiclip be used to distribute the supply to the C60N units?

Answer:

Yes, with a maximum I_{cw} value of 25 kA (see shaded strip in the table above).



2nd example

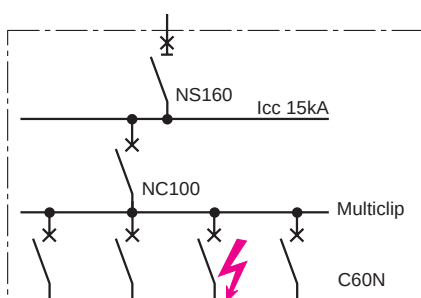
After combining NS160 and NC100 in accordance with the rules for cascading (I_{cc} 15 kA/NC100), can a Multiclip be used to distribute the supply to the C60N units?

Answer:

Yes, because the layout is equivalent to direct NS160-C60N connection.

The Multiclip has been designed to adapt perfectly to Merlin Gerin switchgear and equipment systems.

This example shows that using the Multiclip in the standard configuration (fitted on a Multifix rail with an incoming wiring cover) maintains the performance achieved by cascading circuit breakers.



Comb busbars for DPN, SFT and C60 devices

Range of comb busbars for 18 mm terminal spacing

- supplied with two IP2 end-caps
- markers can be fitted for circuit identification
- cutting locations are marked on the copper bars and on the insulation
- self-extinguishing insulating material, colour RAL 7016
- unused teeth may be insulated by fitting tooth-caps.

1P + N and 3P + N comb busbars



comb busbars	cat. No.
for Declic, DPN, DPN N, SFT and STI	26-mod. comb
1P + N	set of two 48-mod. combs
3P + N	set of two 48-mod. combs

Electrical characteristics

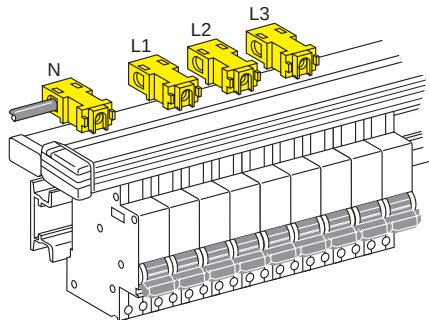
- rated operating current: Ie (40 °C):
 - 100 A with 1 central supply point
 - 125 A with 2 supply points
- rated insulation voltage: 250 V
- short-circuit withstand capacity compatible with the breaking capacities of Merlin Gerin modular circuit breakers.

Connection

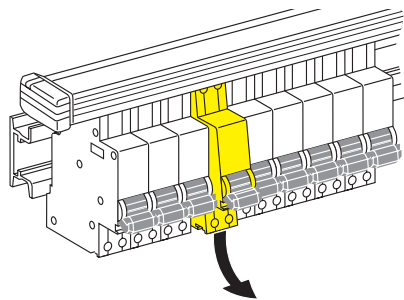
Supply:

- by semi-rigid cable:
 - 16 with DPN circuit breakers
 - 10 with SFT and STI devices, directly in their tunnel terminals
- by 25 semi-rigid cable via connector **14885**.

accessories	for comb busbars	cat. No.
set of 40 end-caps	1P + N	14886
	3P + N	14887
set of 40 tooth-caps	1P + N and 3P + N	14898

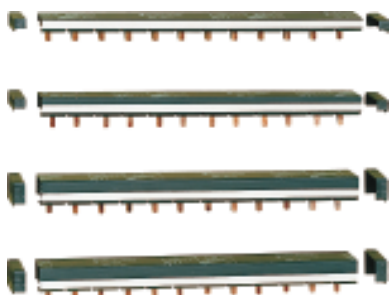


3P + N comb busbar **14899**.



1P + N comb busbars make it possible to dismount Declic and DPN circuit breakers.

1P, 2P, 3P and 4P comb busbars



comb busbars		cat. No.
for C60a/N/H/L, SFT, STI (except 3P + N)		
1P	24-mod. comb	14881
	108-mod. comb (L = 1 m)	14801
	set of two 48-mod. combs	14891
2P	24-mod. comb	14882
	108-mod. comb (L = 1 m)	14802
	set of two 48-mod. combs	14892
3P	24-mod. comb	14883
	108-mod. comb (L = 1 m)	14803
	set of two 48-mod. combs	14893
4P	24-mod. comb	14884
	108-mod. comb (L = 1 m)	14804
	set of two 48-mod. combs	14894
accessories		cat. No.
set of 40 end-caps	1P, 2P	14886
	3P, 4P	14887
set of 40 tooth-caps	1P, 2P, 3P, 4P	14888

Electrical characteristics

■ rated operating current: I_e (40 °C):

□ 100 A with 1 central supply point

□ 125 A with 2 supply points

■ rated insulation voltage: 500 V (as per IEC 664)

■ short-circuit withstand capacity compatible with the breaking capacities of Merlin Gerin modular circuit breakers.

Connection

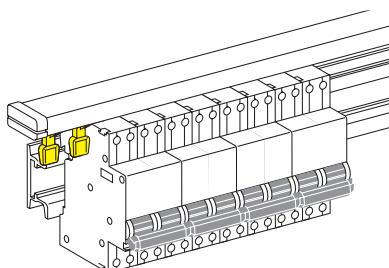
Supply:

■ by semi-rigid cable:

□ 25 with C60 circuit breakers (all ratings)

□ 10 with SFT and STI devices, directly in their tunnel terminals

■ by 25 semi-rigid cable via connector **14885**.



Tooth-caps may be fitted to insulate unused teeth.

Connectors

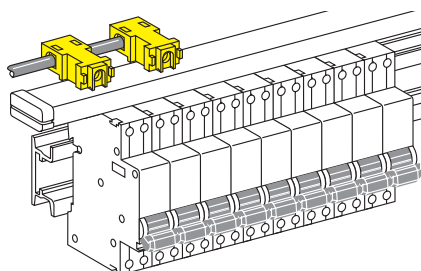


■ compatible with SFT, STI, C60 comb busbars

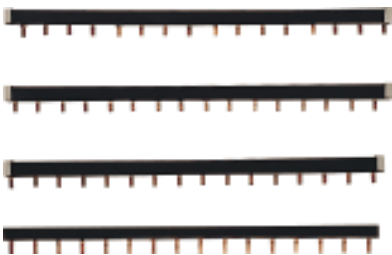
■ clipped firmly onto insulated parts of comb busbars

■ can be fitted with Telemecanique clip-on markers for circuit identification.

connectors	cat. No.
set of 4 insulated connectors for 25 cables	14885



1P, 2P, 3P and 4P comb busbars



Description

- range of 1P, 2P, 3P and 4P comb busbars for 27 mm terminal spacing
- length:
 - 432 mm (16 x 27 mm) for 1P, 2P and 4P comb busbars
 - 405 mm (15 x 27 mm) for 3P comb busbar
- insulating material, colour grey RAL 7016
- IPXXB protection with tooth-caps
- may be cut to length.

Choice of comb busbars

comb busbars	cat. No.
for NG125	
1P	14811
2P	14812
3P	14813
4P	14814

The comb busbars are supplied with:

- 8 tooth-caps + 2 end-caps for 2P comb busbars
- 4 tooth-caps + 2 end-caps for 3P and 4P comb busbars.

Accessories	cat. No.
end-caps and tooth-caps	14818

comprising:

- 20 tooth-caps
- 4 end-caps for 2P and 3P comb busbars
- 4 end-caps for 4P comb busbars.

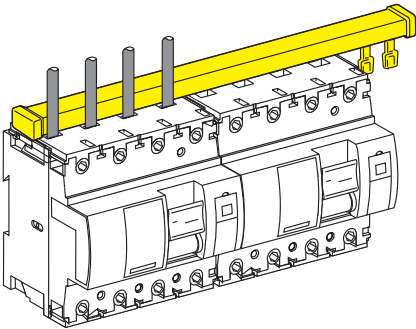
Electrical characteristics

- rated operating current: I_e (40 °C) = 125 A
- maximum rated current per outgoing circuit: 63 A
- rated insulation voltage: 690 V
- rated impulse withstand voltage: U_{imp} = 8 kV
- short-circuit withstand capacity compatible with the breaking capacities of Merlin Gerin modular circuit breakers.

Connection

Supply by cables with a maximum cross-section of 50 mm², directly in the tunnel terminals of the device.

To supply the comb busbar from a busbar set located at the rear of the enclosure, use the 100 A prefabricated connection system (see page 115).



Tooth-caps may be fitted to insulate unused teeth.

2P auxiliary bus duct 100 A connection

2P auxiliary bus duct

Duct with two conductors for distribution of auxiliary voltages used in power and regulation equipment to relays and control and indication auxiliaries.

Composition

- one insulated duct L = 1900 mm, colour black, protecting against direct contact (IP20)
- two brass conductors for 80 tap-offs per linear metre by 6.35 lugs
- brackets for securing to cable tie bars.

Characteristics

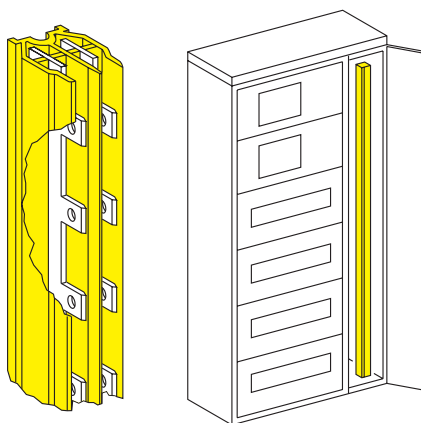
- rated insulation voltage: $U_i = 660 \text{ V}$
- rated operating current: $I_e (40^\circ \text{C}) = 63 \text{ A}$.

2P auxiliary bus duct

2P auxiliary bus duct

cat. No.

07400



100 A connection



Flexible connection system, made of insulated copper cables (class 2: 1000 V insulation) with:

- 6.9 x 2.5 mm ferrule crimped at one end for 16 tunnel terminals
- 90° lugs with 8.5 mm holes crimped at the other end.

Applications

- direct connection between busbars at the rear of an enclosure and a comb busbar.

100 A connection

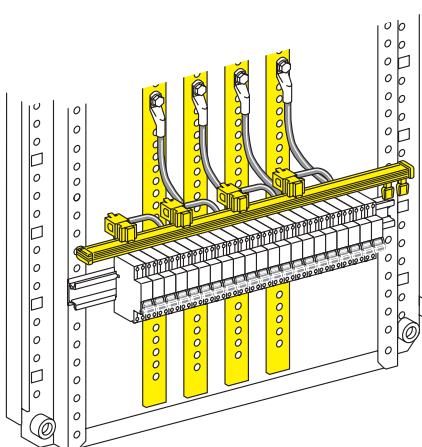
set of four 100 A cables

L (mm)

420

cat. No.

07038



Direct connection between busbars at the rear of a Prisma G enclosure and a row of modular devices.

Cable tie supports



Metal support, fitted with insulated posts, used to guide and secure cables. Cables may be secured to the support with ties to keep them from pulling on device terminals.

Two possibilities for installation:

- directly on the mounting plate cross-members (fig. 1 and 2)
- on 1 or 2 rear cross-members **07427** (fig. 3 and 4).

description		cat. No.
cable tie support for devices up to 250 A	3P	07210
	4P	07211
for devices up to 630 A	3P	07212
	4P	07213

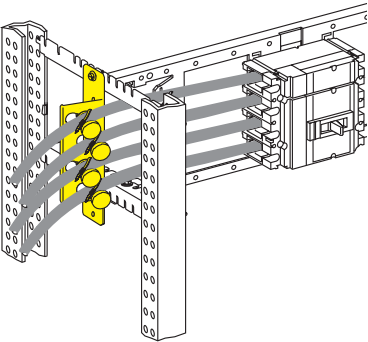


Fig. 1

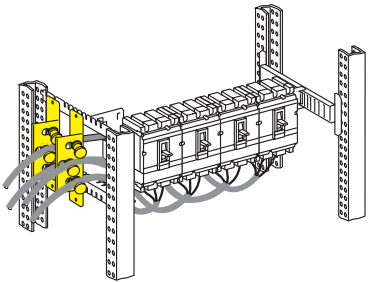


Fig. 2

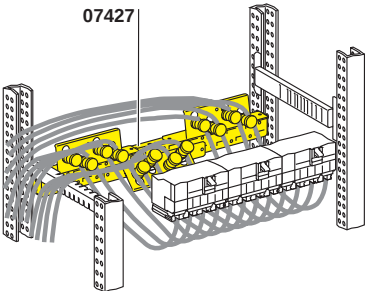


Fig. 3

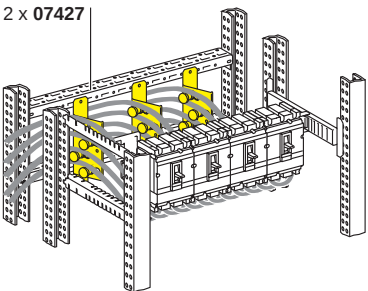
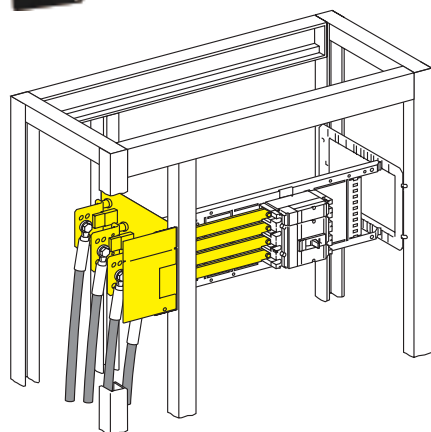
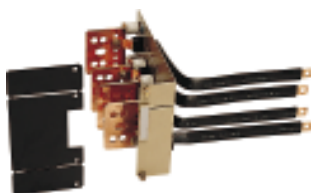


Fig. 4

Cable connection



For cable

Device connections can be made in the duct using this 4-pole prefabricated connection assembly.

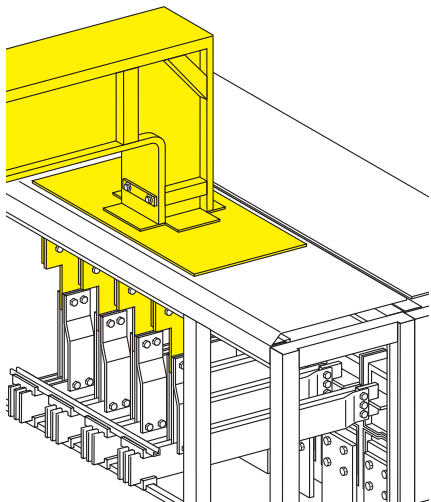
Takes 2 cables per phase (max. cross-section for bi-metal lug: 2 x 250 mm² or 1 x 300 mm²).

Supplied with front barrier to prevent direct contact with the connection terminals.

description	cat. No.
in-duct connection assembly for Compact NS 100/250 fixed	07200
and Vigicompact 400/630 fixed (1)	07201

(1) May only be used with mounting plate 07735 (5 modules).

Busbar trunking system

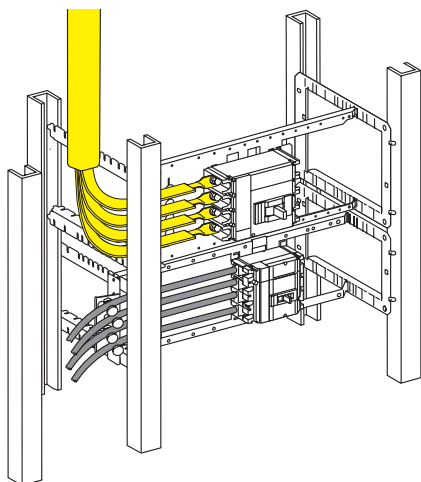


Prisma P switchboard supplied by a Canalis KT.

For incoming device

Telemecanique Canalis KT and KV busbar trunking systems may be used to supply an incoming device of an electrical switchboard. The busbar system enters the cubicle via the roof through openings made on request.

The busbar system is connected to terminal extension bars on the back of the device.



Connection of an NS400 circuit breaker via Canalis KV.

For outgoing circuits

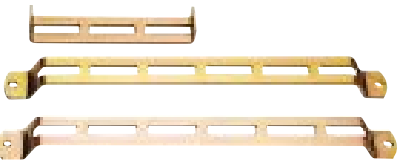
Outgoing circuits can be connected in a switchboard via Telemecanique Canalis busbar trunking systems.

The busbar systems enter the cubicle via the roof through openings made on request.

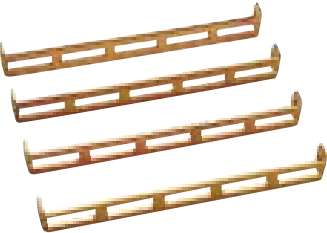
They are sufficiently flexible to be connected directly to horizontal outgoing devices without exerting excessive forces on the connection terminals.

They can also be connected to an in-duct connection assembly.

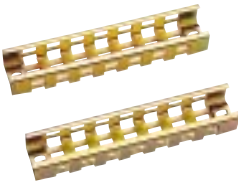
Cable tie bars



07420



07425



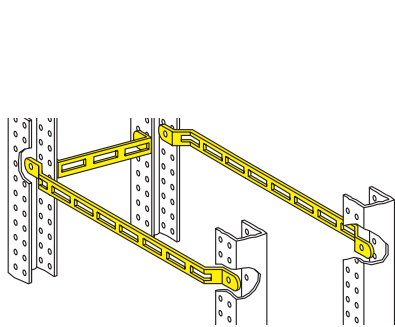
05930



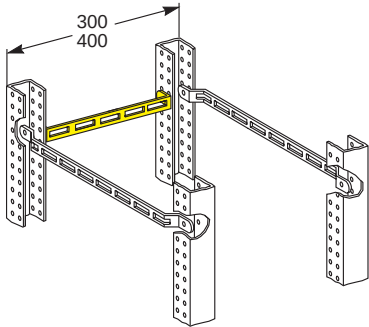
05940

For Prisma P cubicle

description		cat. No.
1 set of cable tie bars		
for duct W = 200 mm :	frame, depth = 400 mm	07420
	frame, depth = 600 mm	07421
4 rear cross-members		
for extension, W = 300 mm		07425
for duct, W = 400 mm		07423



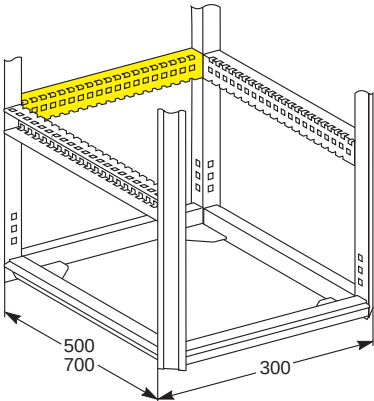
Cable tie bars for duct, W = 200 mm.



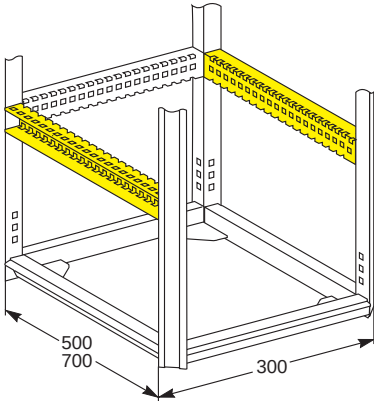
Rear cross-members for duct, W = 400 mm, or extension, W = 300 mm.

For Prisma PH cubicle

description		cat. No.
2 side cross-members		
for duct W = 300 mm :	frame, depth = 500 mm	05940
	frame, depth = 700 mm	05942
2 rear cross-members		
for duct, W = 300 mm		05930



Rear cross-members for duct, W = 300 mm.



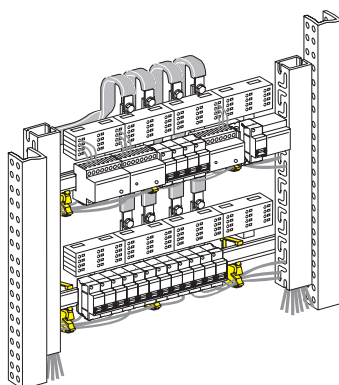
Side cross-members for duct, W = 300 mm.

Horizontal straps

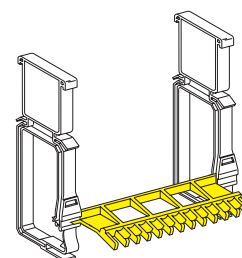
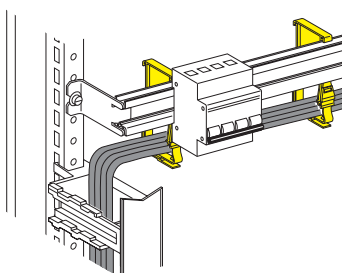
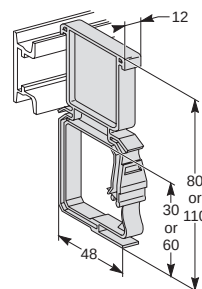


Horizontal cable straps may be clipped to the front or rear of Multifix rails. They do not obstruct the space required for installing switchgear (use one pack of five straps per modular row). Cable guides may be fixed between straps and a cable cover fits over the cable straps to protect cables and provide a neat finish.

description		cat. No.
5 horizontal cable straps	30 x 48	07300
	60 x 48	07301
horizontal cable cover	H = 30	07332
	L = 1000 mm	07333
4 cable guides (only for straps H = 60)		07302



Horizontal straps in a Prisma P cubicle



07302

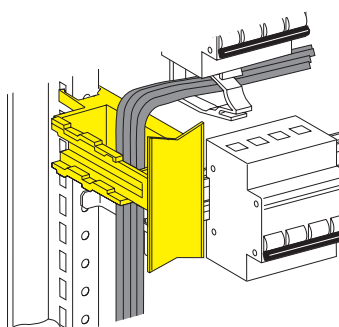
Vertical straps



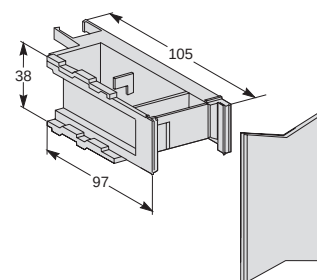
Vertical cable straps may either be clipped to the fixing lug of a Multifix rail (Prisma G, P) or directly to the functional uprights of enclosures or cubicles (Prisma G).

A cable cover fits over the cable straps to protect cables and provide a neat finish.

description	cat. No.
10 vertical cable straps	07305
vertical cable cover, L = 1000 mm	07334



Vertical straps in a Prisma G enclosure.



07305

07334

Cable trunking



For low power cables

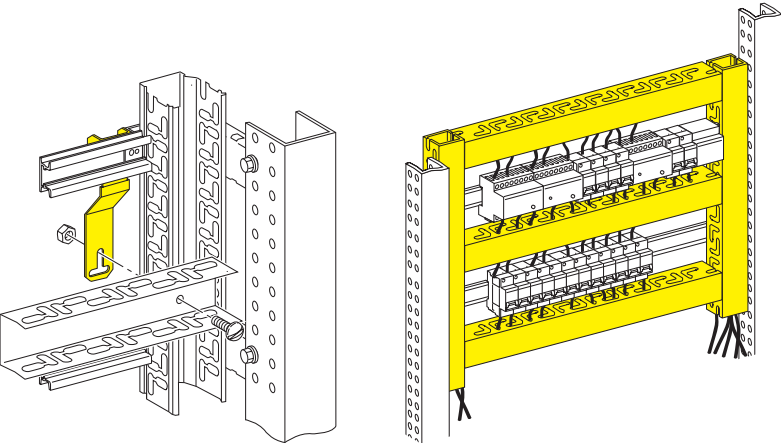
Vertical trunking can be installed:

- in the side duct, secured to the cable tie bars
- on either side of Multifix rails, with special adaptation of the support.

In addition, horizontal trunking can be installed between vertical trunking using the trunking supports.

The various trunking parts can be perfectly interconnected to provide a sufficiently large conduit for all needs.

description	cat. No.
10 trunking supports for connection of horizontal to vertical trunking	07321



Horizontal trunking support 07321.

Vertical and horizontal trunking.



For auxiliary wiring

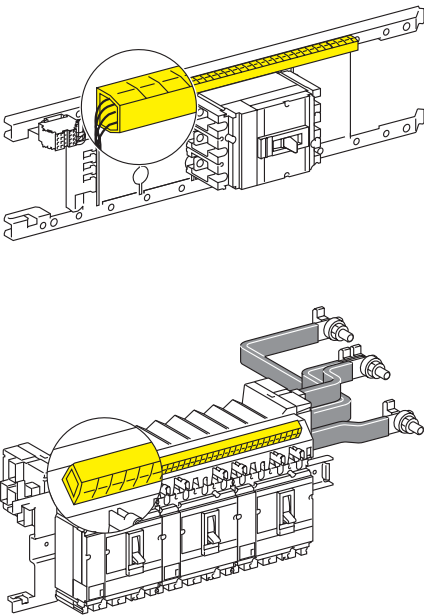
This trunking can be used to run auxiliary wiring (circuit breaker auxiliaries, etc.) to the right or to the left of the switchgear zone.

It can be installed either on the mounting plate or directly on the Polypact distribution block.

description	cat. No.
auxiliary wiring trunking, L = 470 mm	07323

This wiring can be run to a junction block, clipped to an adapter.

description	cat. No.
terminal block adapter for mounting plates	07324



Heating elements

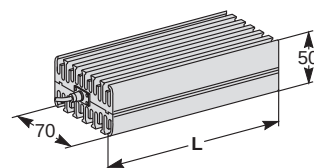
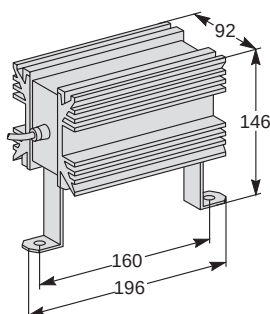


Resistors for horizontal or vertical mounting. Used to prevent condensation, corrosion and surface leakage currents. They maintain an above-freezing temperature in enclosures when outside temperatures are very low.

Characteristics

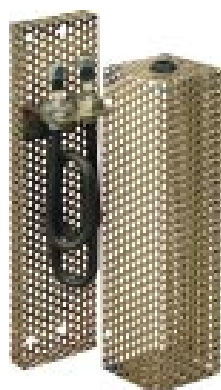
- aluminium ribbed casing
- built-in thermostat, off at 60 °C and on at 25-30 °C (actual temperature of the resistor)
- comes with 50 cm of flexible cable (3 x 0.75 mm²)
- equipped with a symmetrical rail for rapid fitting (snap-on).

heating elements	cat. No.
55 W, 230 V	07995
90 W, 230 V	07996
250 W, 230 V	07998



H	W	D (mm)	cat. No.
50	140	70	07995
50	180	70	07996

Heating rods



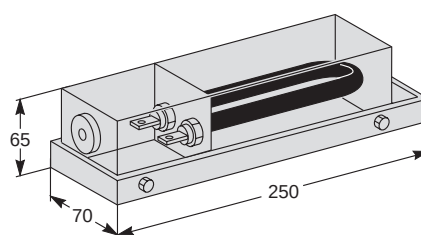
Heating assembly to prevent condensation.

A stainless steel heating rod is clamped to a protective cover.

Supplied without thermostat.

Mounting: with M6 screws (25 mm between centres).

heating rods	cat. No.
60 W, 230 V	07992
150 W, 230 V	07993
250 W, 230 V	07994



H	W	D (mm)	cat. No.
65	250	70	07992
65	250	70	07993
65	250	70	07994

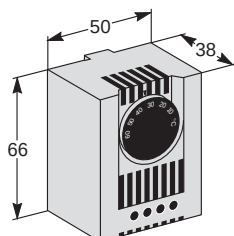
Thermostat



Used to control and limit the temperature inside electrical enclosures equipped with heating rods and fans.

description	cat. No.
thermostat	07999

Temperature range: +10 °C to +50 °C.
Voltage: 230 V.
Mounting: clips onto Multifix rail.

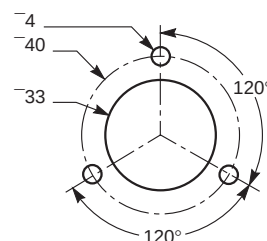
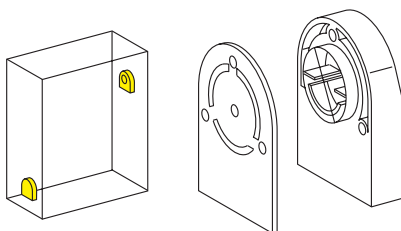


Ventilation openings



description	cat. No.
2 ventilation openings	02991

Airway cross-section: 3.3 cm².
Dimensions (mm): H = 69, W = 51, D = 19.
Degree of protection: IP44.



Hole locations

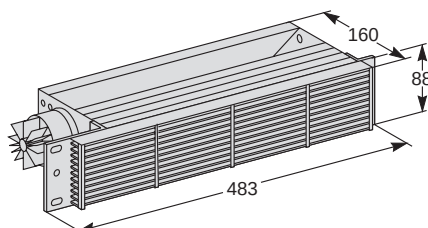
Ventilation unit 19"



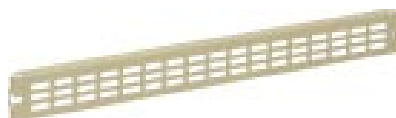
Air is drawn in from the front through a filter, deflected 90° and forced vertically through equipment.

description	cat. No.
19 ventilation unit for electronic equipment	07990

Height = 2 units.
IP 42.
Voltage: 230 V.
Output: 300 m³/h, without backpressure.
Power: 12 W.



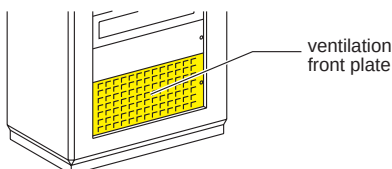
Ventilation front plates



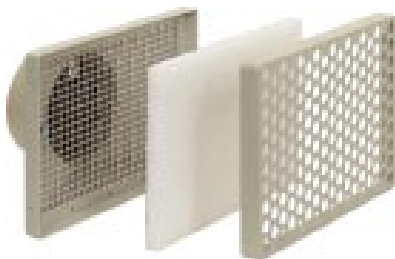
Located at the top and bottom of cubicles, these IP20 ventilation front plates allow air to flow through the enclosure.

ventilation front plates	cat. No.
H = 50, CSA = 65 cm ²	07980
H = 250, CSA = 425 cm ²	07981

CSA = cross-sectional area of the airway.



Fans



- assembly made up of an axial fan, a grill and a standard filter
- the case and the grill are made of self-extinguishing plastic
- IP 54. These fans draw in fresh air. They come complete with mounting screws and maintenance instructions.

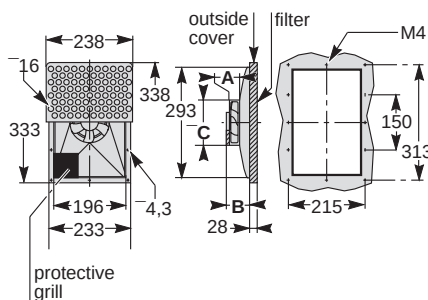
dim. A	dim. B	Ø C	cat. No.
45	75	118	07988
75	112	150	07989

Accessories

fan support front plate with cutout (5 modules)

cat. No.

07984



power (W)	voltage (V)	current (mA)	throughput without backpressure m³/h		throughput with outlet grill m³/h		max. back pressure Pa	acoustic noise dB	weight (kg)	fan cat. No.
			with standard filter	with fine filter	with standard filter	with fine filter				
18	230	110	83	63	65	50	24,5	49,5	1,1	07988
38	230	250	170	90	130	70	40,2	56	1,8	07989

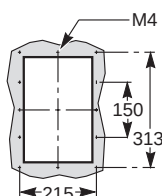
Outlet filter



- filter grill, supplied with a standard filter (max. air throughput 130 m³/h)
- IP54.

description

description	cat. No.
filter grill with standard filter	07985
standard filter	07982
fine filter	07983
filter support front plate with cutout (5 modules)	07984



Ventilated roof



Accessories

The ventilated roof can be mounted on 700 mm wide Prisma P frames (D = 400 or 600 mm).

It improves cubicle ventilation by either natural or forced convection.

- for an IP20 cubicle, the ventilated roof replaces the standard roof. Maximum effectiveness is obtained with the addition of an IP 20 ventilation front plate at the bottom of the cubicle

- for an IP30 cubicle, the IP20 ventilated roof is covered by a 150 mm high ventilated top. Addition of a ventilation front plate at the bottom of the cubicle is recommended

- for an IP41 cubicle, a filter is added to the IP30 ventilated roof. A fan (IP54) is generally necessary at the bottom of the cubicle.

ventilated roof

ventilated roof	cat. No.
IP 20 ventilated roof D = 400	09421
D = 600	09422
IP 30 ventilated roof D = 400	09418
D = 600	09419
filter for IP 41 ventilated roof D = 400 and 600	09420
spacers for raised ventilated roof 6 spacers M6, H = 17.5 mm improves the ventilation and ensures a degree of protection of IP20	05222

Labels



Label holder

for modular devices		cat. No.
12 label holders	18 x 35	07351
12 engraving plates	18 x 35	07352
12 label holders	18 x 72	07353
12 engraving plates	18 x 72	07354

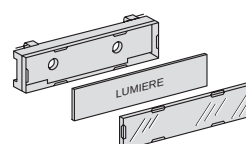
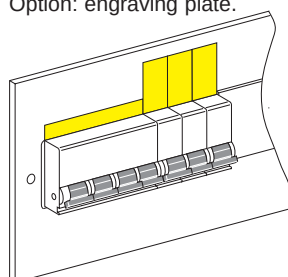
for Compact circuit breaker and other units		cat. No.
12 label holders	25 x 85	07355
12 engraving plates	25 x 85	07356
Prisma beige adhesive label holder		07360
10 self-adhesive label holders L = 430 mm		

Prisma beige label holder:

- clip-on support + paper labels + transparent cover
- horizontal or vertical mounting with clips or screws.

Also takes Dymo type strips, H = 12 mm.

Option: engraving plate.



Adhesive labels

label	white	black	red
10 strips 900 mm (L = 7 mm)	03511	03521	03531
10 outgoing arrows	03512	03522	03532
10 incoming arrows	03513	03523	03533
5 transformers	03514	03524	03534
5 earths	03515	03525	03535

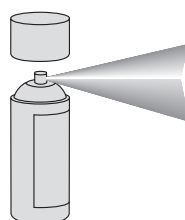
Note:

Range of temperature for adhesive -25 °C to +70 °C (has undergone tests according to standard HN63 S60 damp heat tests without unsticking of labels occurring or any traces of oxidation being noted).

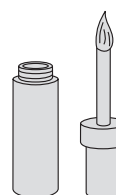
Spray paint



description		cat. No.
spray paint	Prisma beige	09059
touch-up brush	Prisma beige	09058
spray paint	RAL 7032	02499



09059

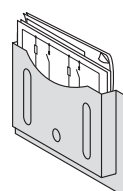


09058

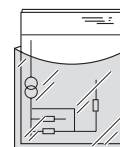
Drawing holder



description	cat. No.
rigid adhesive drawing holder H = 215, W = 215, D = 20, colour: RAL7032	06617
5 flexible drawing holders	05207



06617



05207

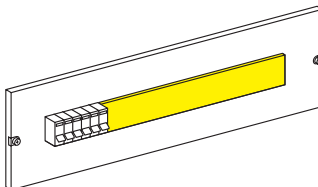
Blanking plates



for Multi 9 device

1 strip blanking plate Prisma beige
L = 1000 mm for Multi 9 (H = 46 mm)

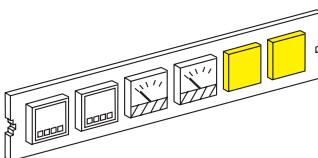
cat. No.
07340



for 72 x 72 mm device

72 x 72 mm blanking plate Prisma beige
set of hole punches for 72 x 72 mm blanking plate including Ø 22 mm
and □ 46 mm

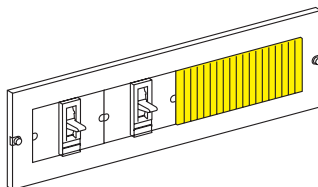
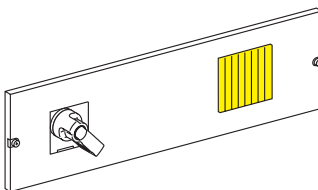
cat. No.
07347
03112



for Compact/Interpact device

divisible blanking plate Prisma beige for Compact NS100/250 and
Interpact IN125/160T vertical mounting (H = 80 mm, W = 122 mm)

cat. No.
07348

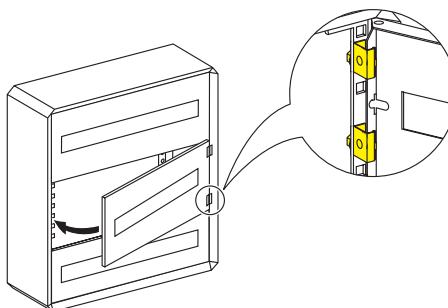


Hinges for front plate

description

4 hinges for front plate

cat. No.
09053



Spare mounting hardware

description

spare nuts and bolts

cat. No.
07395

Composition

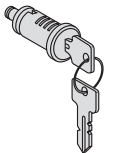
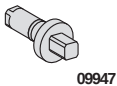
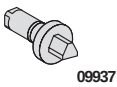
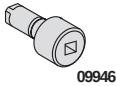
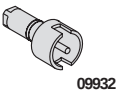
- 4 mounting plate fixing screws
- 4 front plate fixing screws
- 1 fixing screw for corner pillar
- 2 pillar inserts
- 2 clip-on nuts for fixing mounting plates and ducts
- door earthing fixture.



Handles, barrels, combinations

locks for handle 09940 and 09944 and all Prisma P and PH doors after disassembly of barrel 405

slot for screwdriver		09931
female square	6 mm	09946
male square	6 mm	09949
	7 mm	09947
	8 mm	09948
male triangle	7 mm	09937
	8 mm CNOMO	09938
	9 mm EDF	09939
double bar	3 mm	09932
padlocking device		09951

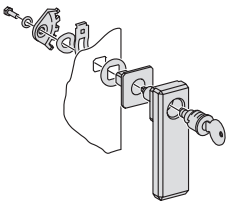


barrel + 2 keys 2433 A	09933
barrel + 2 keys 455	09945
barrel + 2 keys 1242 E	09942
barrel + 2 keys 3113 A	09943

Please consult us for other combination of A and E type Ronis locks.

handle with barrel + 2 keys 405

for Prisma P cubicle	black	09936
	beige	09940
for Prisma PH cubicle	beige	09944



Dimensions

Prisma P cubicle	128
------------------	-----

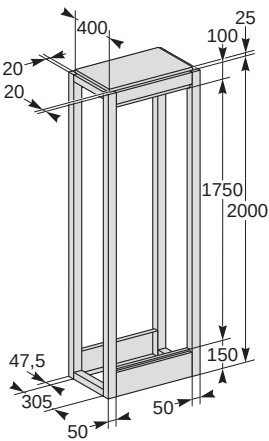
Prisma PH cubicle	134
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Width of Multi 9 devices	136
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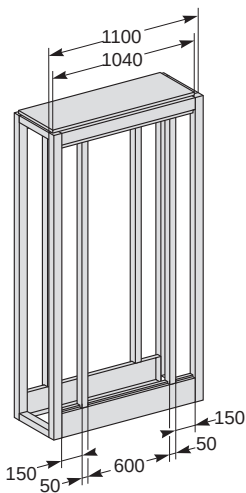
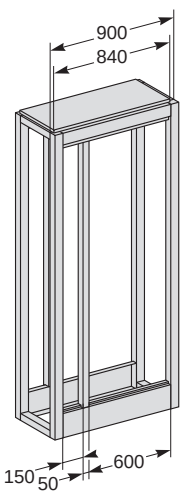
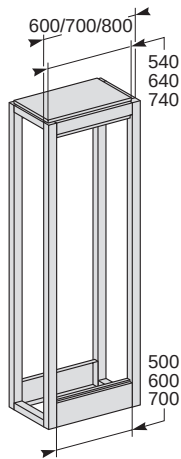
Prisma P cubicle Frame

Frame, depth D = 400

Common dimensions

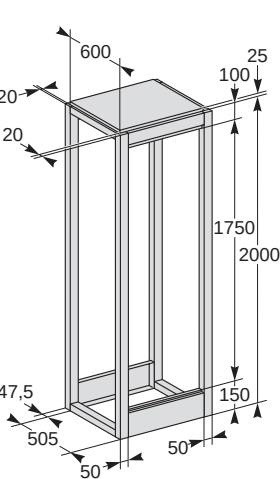


Specific dimensions

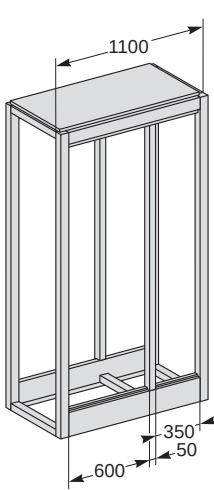
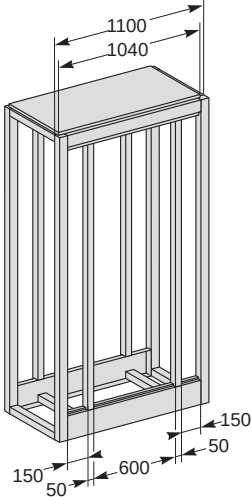
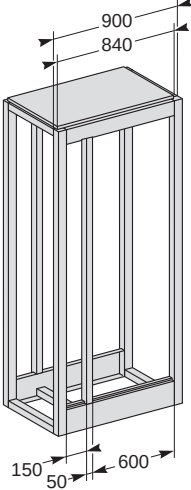
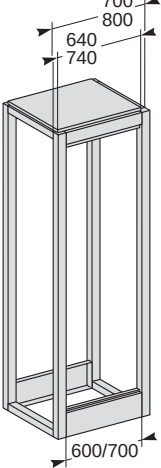


Frame, depth D = 600

Common dimensions

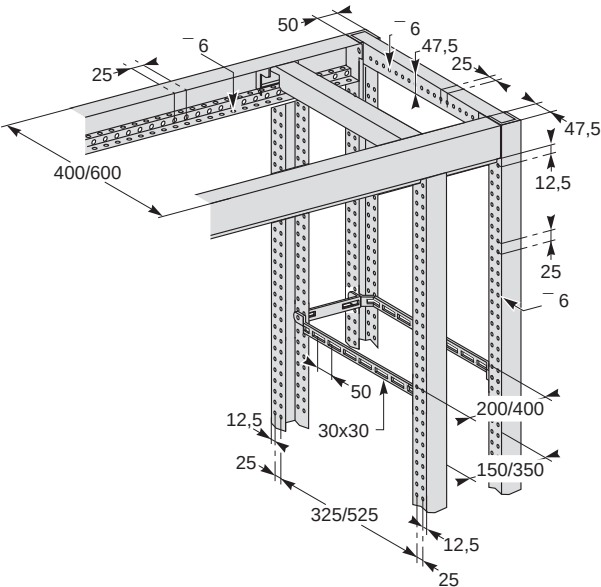


Specific dimensions

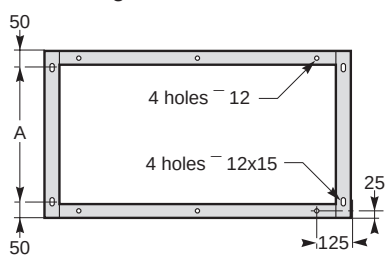


Detail of uprights

Cable tie bar



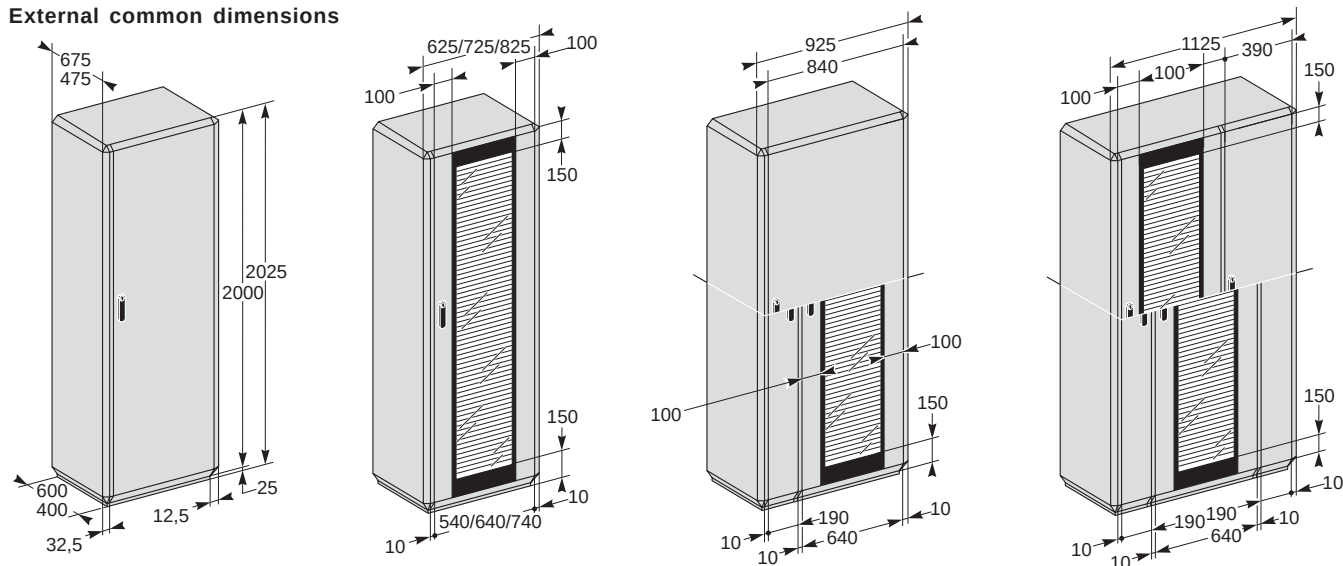
Floor fixing



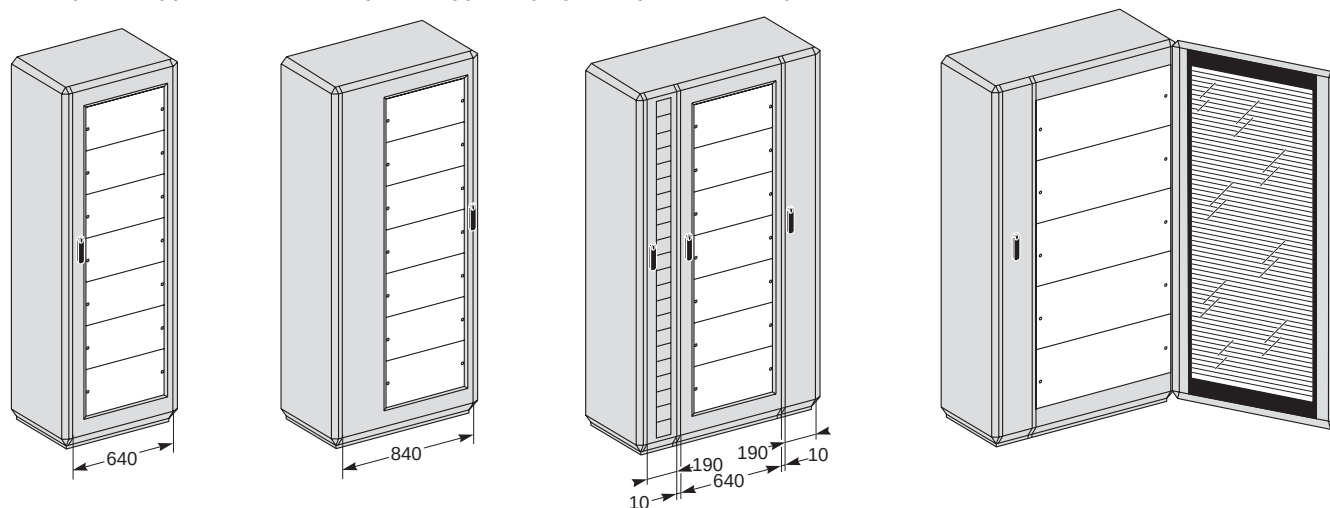
centres	A
for frame depth D = 400	300
for frame depth D = 600	500

Prisma P cubicle cover

External common dimensions



Front plate support door - Front plate support uprights + plain or transparent door

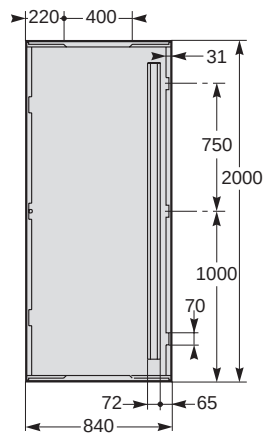
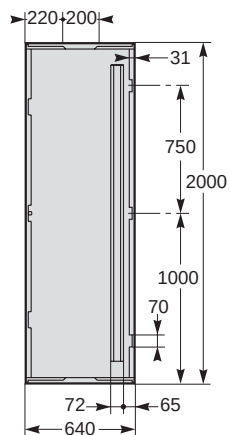
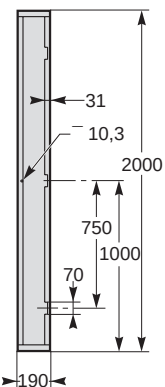


Effective area on wicket door and door

Wicket door

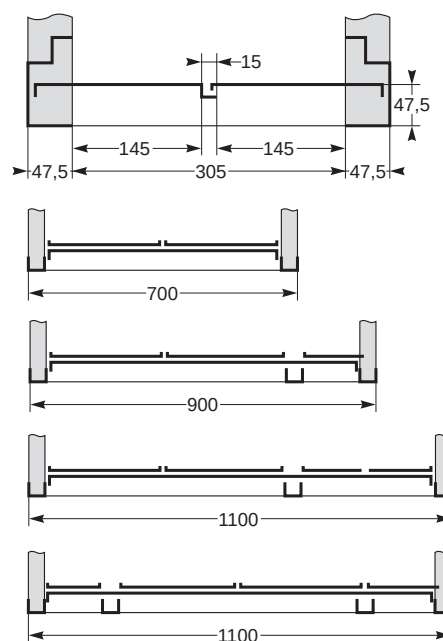
Plain door W = 700

Plain door W = 900



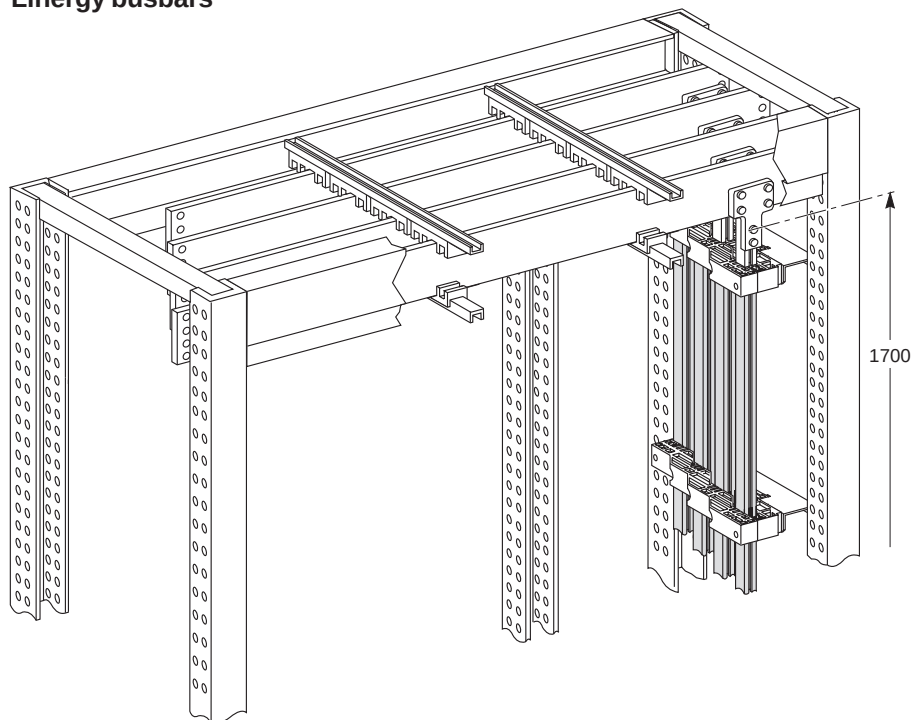
Gland plate

For depth D = 400

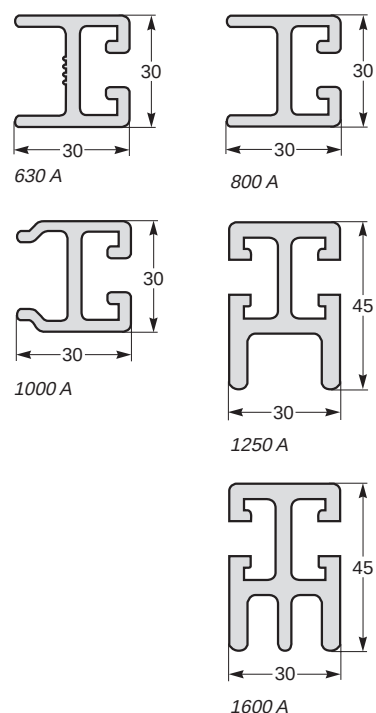


Prisma P cubicle Linergy 1600 A busbars

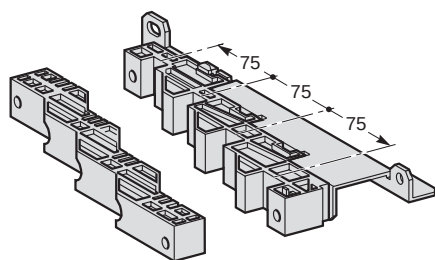
Linergy busbars



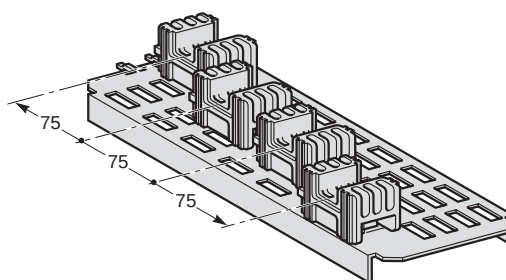
Linergy busbar connections



Linergy supports

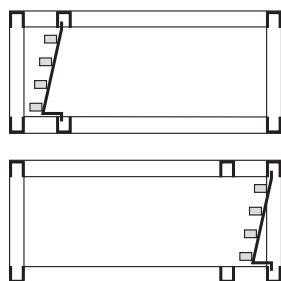


Linergy bottom supports

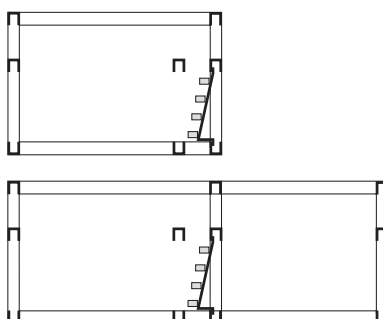


Busbar layout

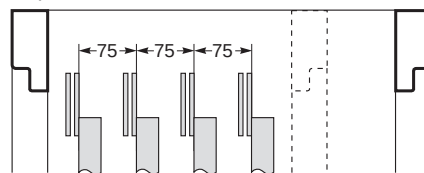
Prisma P, depth D = 400



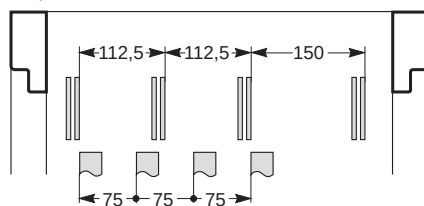
Prisma P, depth D = 600



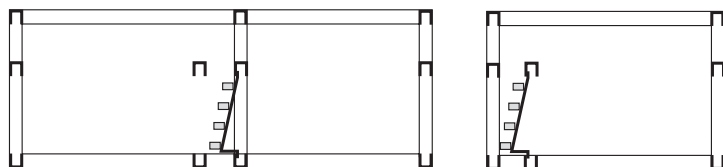
Direct connection with horizontal busbars on 75 mm centres
Depth D = 400 or 600



Connection with horizontal busbars on 112.5 mm centres
Depth D = 600

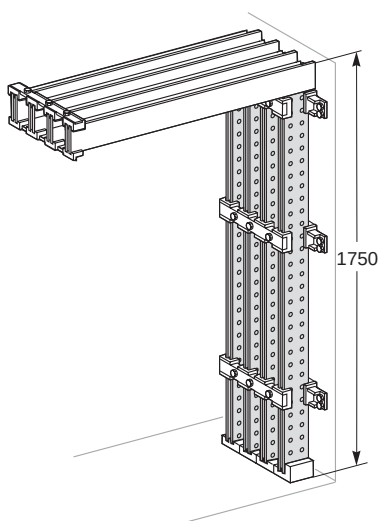


Two Prisma P frames installed side by side
D = 400 or D = 600

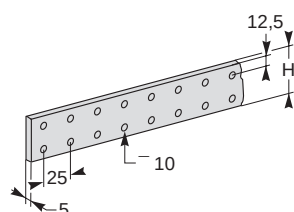


Prisma P cubicle Vertical busbars > 1600 A

Lateral vertical busbars

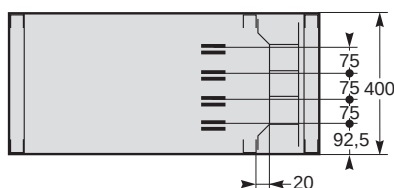


Bars, width W = 50/63/80/100/125

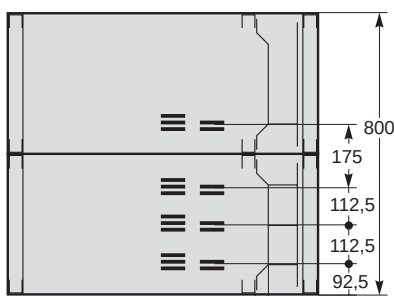


1 bar/phase

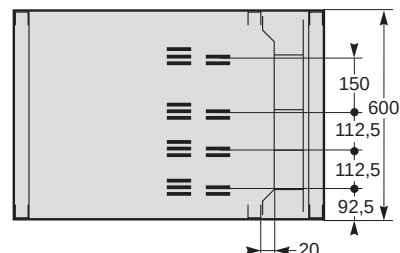
Prisma P cubicle, width W = 900 and 1100



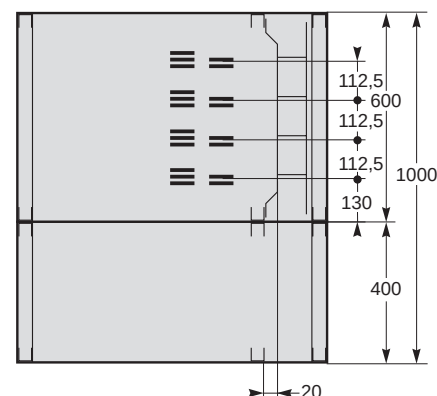
1600 A



2500 A



2500 A

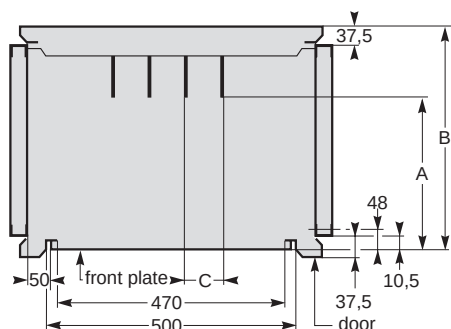


3200 A

Rear vertical busbars

Available space behind the front plate support door

- without busbars;
- with rear busbars.



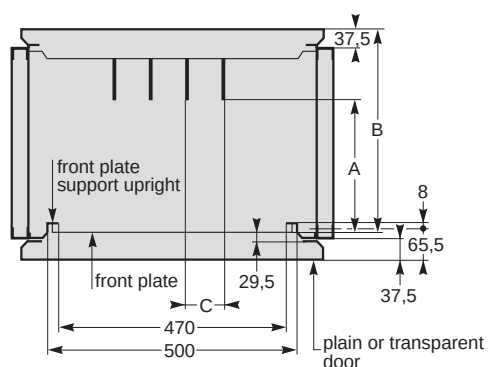
bar width	dimension A		dimension B	
	depth D = 400	depth D = 600	depth D = 400	depth D = 600
25	318	518	446	646
50	293	493	446	646
63	280	480	446	646
80	263	463	446	646
100	243	443	446	646
125	218	418	446	646

centres C

≤ 1600 A	75
≤ 3200 A	112,5

Available space behind the front plate support uprights + door

- without busbars;
- with rear busbars.



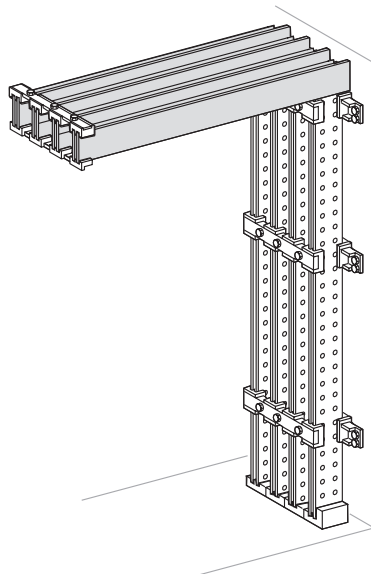
bar width	dimension A		dimension B	
	depth D = 400	depth D = 600	depth D = 400	depth D = 600
25	278	478	406	606
50	253	453	406	606
63	240	440	406	606
80	223	423	406	606
100	203	403	406	606
125	178	378	406	606

centres C

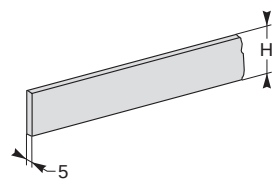
≤ 1600 A	75
≤ 3200 A	112,5

Prisma P cubicle Horizontal busbars

Top and bottom horizontal busbars

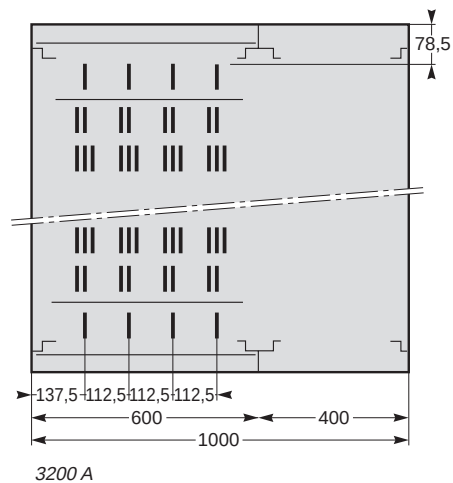
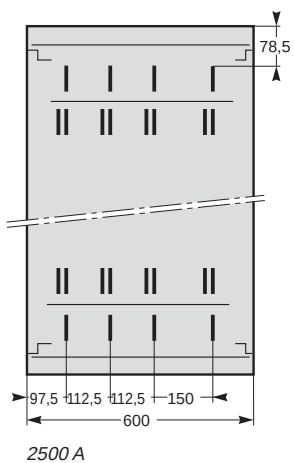
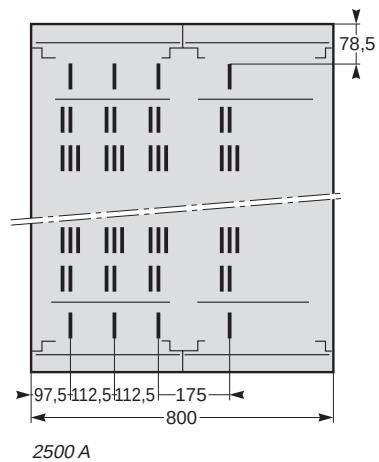
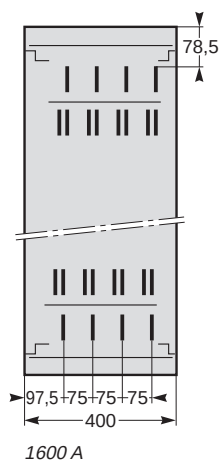


Bars, width $W = 50/63/80/100/125$



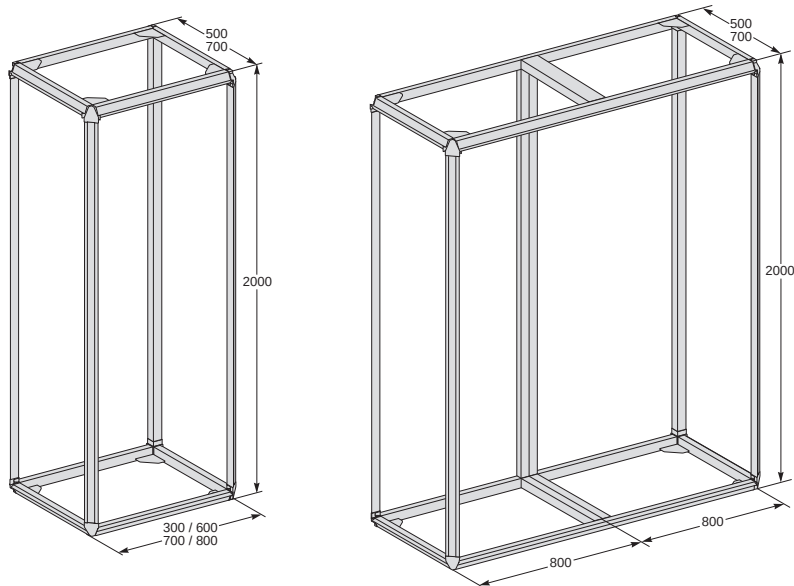
- | 1 bar/phase
- || 2 bars/phase
- ||| 3 bars/phase

Prisma P cubicle, width $W = 600$ to 1100



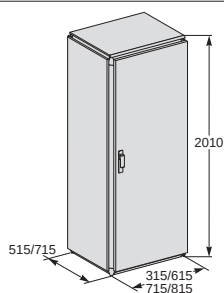
Frames

Section

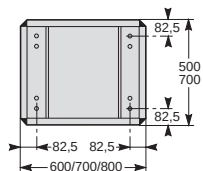


Covering

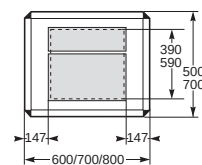
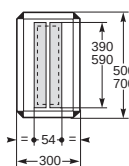
Plain or transparent door, side panels



Floor fixing

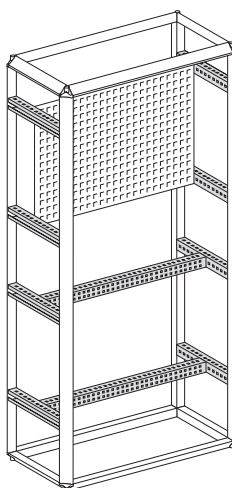


Gland plate

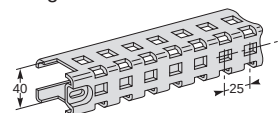


Device installation

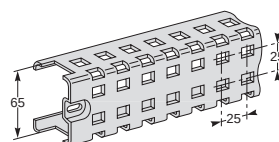
Use of rear and side cross-member



Single holes

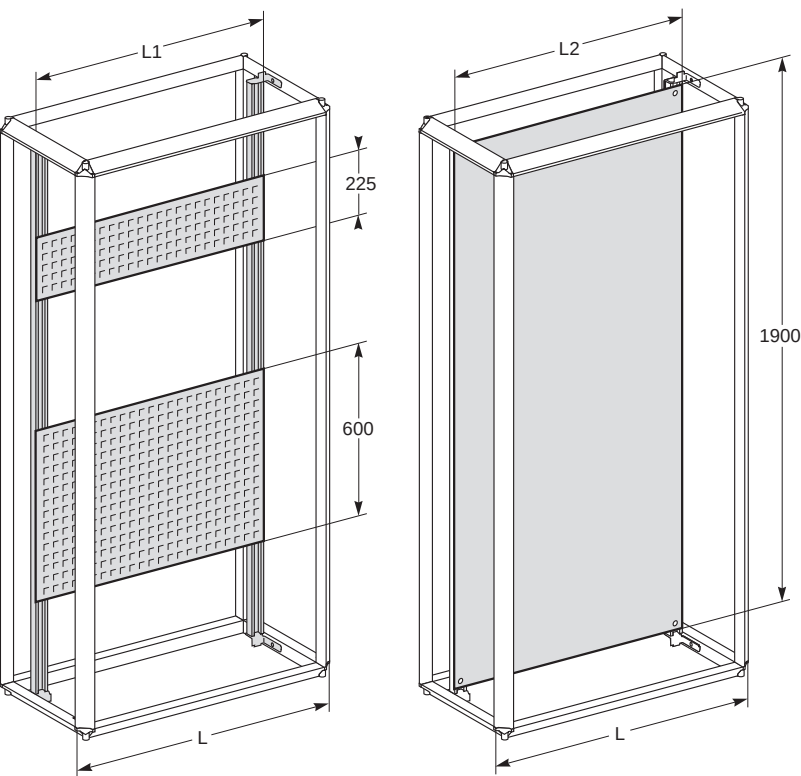


Double holes

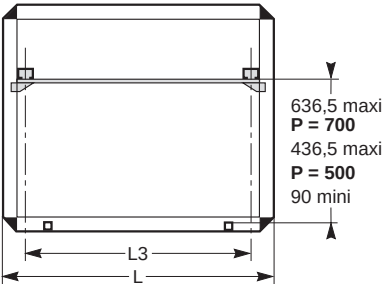


Use of plain and slotted plates

width	L1	L2	L3
600	510	500	450
800	710	700	650

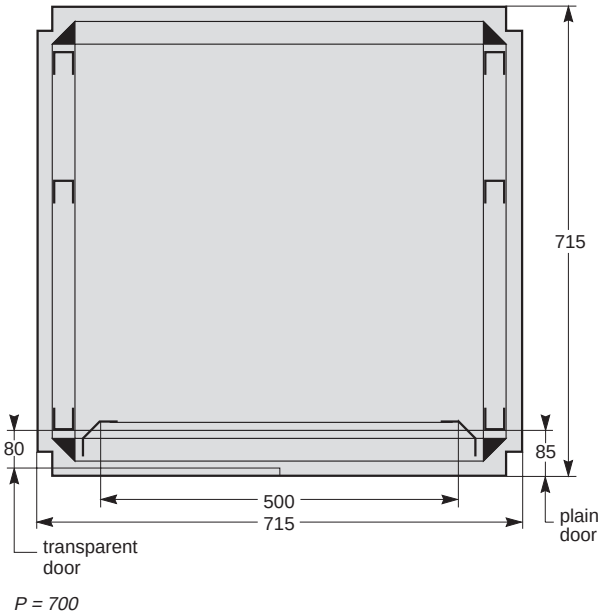
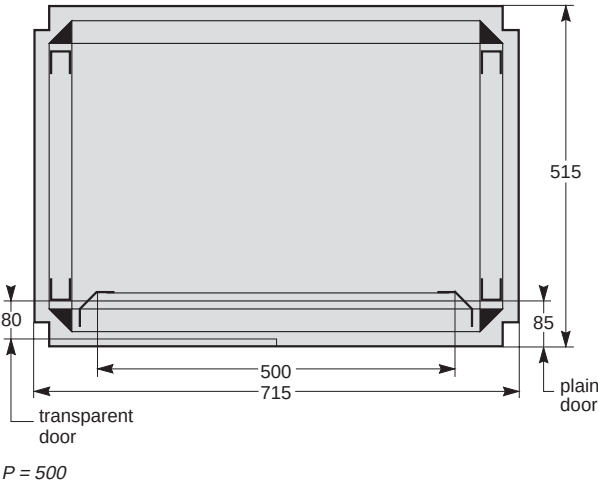


Upright depth adjustment



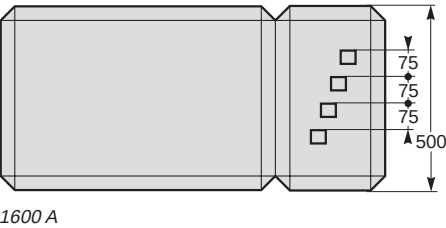
Functional system for Prisma PH cubicle

Cubicle assembly

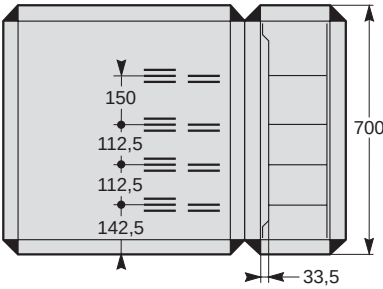


Busbar installation

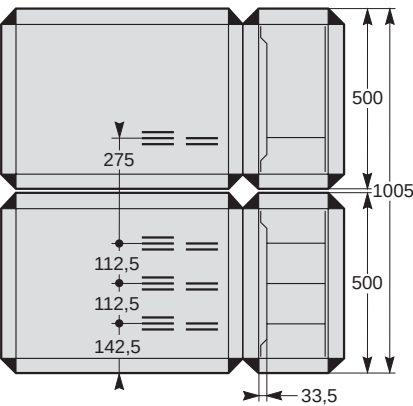
Lateral vertical busbars



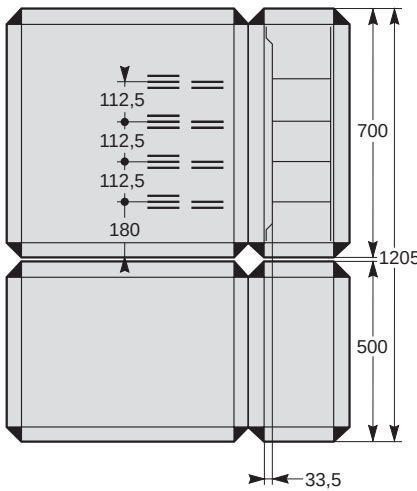
1600 A



2500 A

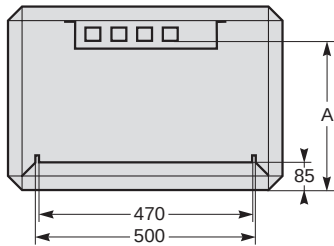


2500 A



3200 A

Root busbars



type of bar section	dim. A
Linery 800	384
Linery 1 000	384
Linery 1 250	369
Linery 1 600	369

Width of Multi 9 devices (in number of 9 mm modules)

description	9 mm 1P	module 1P + N 2P	width 3P	4P	description	9 mm 1P	module 1P + N 2P	width 3P	4P
AMP analogue ammeter	8				IC7502 light sensitive switch	10			
AMP digital ammeter	4				ID-RCCB residual current circuit-breaker		4		8
C32H-DC auxiliary	1-2				IF fuse switch	2	4	6	8
NO/NC auxiliary	2				IHP, IHH, IH time switch	2			
ACTp and ACTr contactor auxiliary	2				IH time switch	6			
ACTo+f contactor auxiliary	1				IH time switch	12			
Vigi C60 ≤ 25 A module		3	6	6	day IHP	5			
Vigi C60 ≤ 40 and 63 A module		4	7	7	week IHP	5			
Vigi XC40 module		3	4	5	week IHP, impulse 1-2 channels	7			
Vigi XC40 (30 mA) module		3	5	5	week IHP, impulse 3-4 channels	10			
Vigi C120 module all ratings		7	10	10	annual IHP	10			
pushbuttons	2				MIN timer	2			
fuse switch combinations	2	4	6	8	MINe, MINp, MINs timer	2			
CM selector switches	2	4			MDI current module	1			
Zero recall 2P selector switch	6				MDU voltage module	1			
CMA ammeter selector switch	6				PF8, PF15 2P surge arrester		4		
CMV voltmeter selector switch	6				PF30 (r) 2P surge arrester		6		
CME 2-direction selector switch	6				PF8, PF15, PF30 (r) 4P surge arrester			8	
CMD 4-direction selector switch	6				PF65(r) 4P surge arrester			14	
CE, CEr kilowatt hour meter	12				PE65/40/15/8 1P surge arrester	2			
CE ch. Kilowatt hour meter**	6				PRC telephone surge arrester	2			
CI impulse meter	4				SBI 14 x 51 fuse holder	3	6	9	12
CH hour counter	4				SBI 22 x 58 fuse holder	4	8	12	16
CT 16/25 A contactor	2	2	4	4	PRE early switch-off warning	2			
CT 40/63/100 A contactor		4-6	4-6	6-12	PC comfort 10 A et 16 A power socket		5		
CT contactor: ACTc auxiliary	2				PC 20 A power socket	8			
CDS single-phase load-shedding contactor	10				RGo regulator	6			
CDSc and CDSst single-phase load-shedding cont.	16				REG/REG1/REG2 regulator	8			
CDS three-phase load-shedding contactor			16		REGad1, REGad2 regulator	12			
SM21 insulation monitor	8				RBN low level relay	2			
TC16-6 A static switch	5	7			DD subdistribution load-shedding relay	2			
TC16-10/16 A static switch	7	9			DSC changeover relay	2			
Déclic, DPN, DPN N circuit-breaker		2			RCU/RCI/RCP and RCC relay	4			
DPNa, DPN, DPN N Vigi residual current device		4			RTA, RTB, RTC, RTH, RTL, RTMF time-delay relay	2			
C32H-DC circuit-breaker	2	4			RLI relay	2			
C60a/N/H/L/LMA circuit-breaker	2	4	6	8	STI fuse disconnecter	2	2-4	6	6
C120/N/H circuit-breaker	3	6	9	12	bell and buzzer	2			
NC100 circuit-breaker	3	6	9	12	TBS remote control	8			
NG125 circuit-breaker	3	6	9	12	Tm60-Tm120 remote control	7			
2 OF or OF + SD auxiliary	1				TL 16 A and 32 A, ETL 16 and 32 A impulse relay	2			
ID, DPN, C60, C120 auxiliary	1-2-4				TLI 16 A, TLc changeover impulse relay	2			
MX + OF or MN auxiliary	2				TLm, TLs impulse relay	2			
MN auxiliary	4				impulse relay: ATLC+c, ATLC+s auxiliaries	2			
NG125 Vigi circuit-breaker		11	18	21	impulse relay: ATLT, ATLTz auxiliaries	2			
NG125 Vigi I/S/R circuit-breaker		11	20	23	impulse relay: ATL4 auxiliary	4			
P25 M circuit-breaker			5		TC16P 10/16 A static impulse relay	7	9		
MN auxiliaries	1				time delay relays	2			
MX auxiliaries	2				TH3 and TH6 thermostat	8			
Réflex XC40 circuit-breaker		8	10	12	THP1 thermostat	10			
TL, ETL extension	2				THP2 thermostat	10			
ERL extension	2				TR, 4 VA transformer	4			
FREQ frequency meter	4				TR, 8 and 16 VA transformer	4			
insert	1				TR transformer, 25 VA	6			
20 A and 32 A switch	2	2	4	4	TR transformer, 16 to 63 VA	10			
40, 63, 100, 125 A switch	2	4	6	8	Vigilhom EM (9, 9B)	8			
IB dual circuit switch**		4			Vigilhom TR5A and SM21	11			
IC200 light sensitive switch	5				Vigirex RH (10 A/AP, 320 A/AP, 328 A/AP)	8			
IC2000 light sensitive switch	7				VLT analogue voltmeter	8			
IC2000P light sensitive switch	10				VLT digital voltmeter	4			
ICWo, ICWs light sensitive switch	6				indicator lights	2			

Determining the power circuits	138
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Thermal management of switchboards	175

Example

Cubicle:

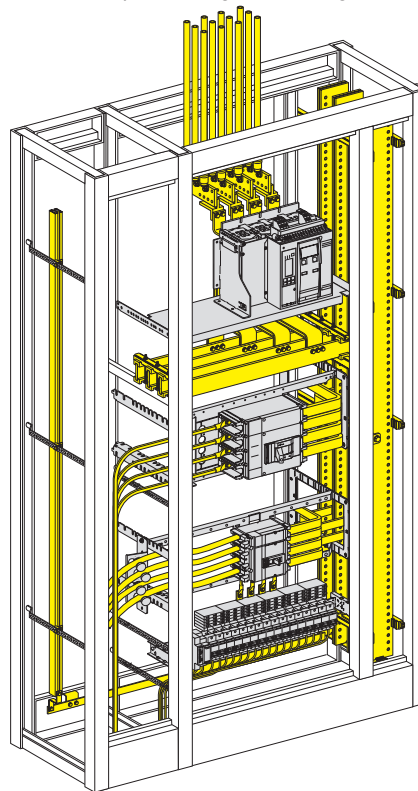
- Prisma, D = 400 mm
- 900 mm wide
- 300 mm extension
- form 2
- IP 20: The necessary IP depends on the location where the switchboard is to be installed (see page ESB120E_8_580/580)
- ambient temperature around switchboard: 35°C
- prospective I_{sc}: 36 kA
- TT system

Incoming circuit breaker:

- Masterpact NT16 H1 fixed, front-connected, 4P

Outgoing devices

- Compact NS630 horizontal
- Compact NS250 horizontal
- 1 row of modular circuit breakers



The following pages present an example, based on a Prisma P switchboard, to help you determine the necessary busbars and upstream and downstream connections for your installation.

This example assumes that the equipment and devices have already been selected.

A complete procedure would include the previous phases (selection of transformer, conductors, protective devices, etc.).

Schneider Electric offers a number of tools to help you design a complete installation (technical guides, design software, etc.).

The Prisma functional system takes into account the installation and connection requirements of Schneider Electric devices in enclosures. The resulting switchboards represent type-test assemblies complying with standard IEC 60439-1.

Standards

For devices installed in enclosures, the reference standard is IEC 60439-1.

Standard IEC 60947 deals with devices alone (circuit breakers, contactors, switch-disconnectors).

The difference between these two standards is clearly demonstrated by the temperature-rise tests:

Temperature-rise tests for switchboards according to IEC 60439-1.

Main test characteristics:

- the tests are carried out in a room in which the temperature is regulated, to obtain values at a reference temperature of 35°C
- the devices, connections and busbars are installed inside an enclosure (internal temperature approximately 60°C)
- the different temperatures inside the switchboard are measured
- the behaviour of the devices in the switchboard configuration is checked.

Temperature-rise tests for devices according to IEC 60947.

Main test characteristics:

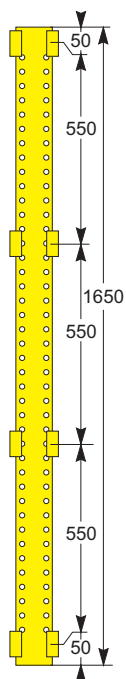
- the tests are carried out in open air (reference temperature of 40°C)
- the tests are carried out on a single device
- various temperatures inside and around the device are measured
- the lengths and cross-sectional areas of the connection between the device and the power source do not correspond to a switchboard configuration

Temperature-rise tests for insulated flexible copper bars according to IEC 60947-1

Main test characteristics:

- the tests are carried out in open air (reference temperature of 40°C)
- the tests are carried out on a single conductor, 6 metres long (no device connected, no power dissipation, no additional heating)
- temperature-rise is measured according to the current carried
- this test does not take into account the installation conditions inside the enclosure nor the device connected.

1 - busbars



Linerygy busbars (table page 141): $I \leq 1600$ A.

The table indicates:

- the Linergy busbar to be used depending on the current and the temperature around the switchboard
- the number of supports required depending on I_{cw} in kA rms/1s.

Flat busbars (table page 142): $I \leq 3200$ A

The table indicates:

- the permissible current according to:
 - the cross-section area of the bars
 - the number of bars
 - the temperature around the enclosure
 - the degree of protection IP
- the distance between phase centres depending on current
- the required distance between supports depending on I_{cw} (in kA rms/1s), which must be greater than or equal to I_{sc} (in kA rms/1s).

Example:

Flat busbars

- $T = 35^\circ\text{C}$, $IP \leq 30$, $I_n 1600$ A $\Rightarrow 1650$; two 80×5 mm busbars are required
- $I \leq 1650$ A, 75 mm spacing between phase centres
- securing: $I_{sc} = 36$ kA $\Rightarrow 37$ kA; therefore with two 80 mm wide bars, the distance between supports is 600 mm, the bars are 1750 mm long; $1750 - 100 = 1650/600 \Rightarrow$ gives 3 intervals, therefore we need 4 supports (see illustration opposite) (+ the bottom busbar support).

Example using Schneider Electric prefabricated solutions:

Lynergy busbars: table page 141

- $I_n = 1600$ A, $IP \leq 30$, $T = 35^\circ\text{C}$: use the Linergy 1600 section, cat. No. **07635**
- securing: $I_{sc} = 36$ kA $\Rightarrow 39$ kA, therefore we need 3 supports cat. No. **07371** and one bottom support cat. No. **07373**.

2 - upstream/downstream devices connections

To determine the cross-section of the upstream and downstream device connections, use the tables on pages 147 according to:

- the type of circuit breaker
- the IP
- the ambient temperature around the switchboard
- the type of installation.

We must determine:

- the number and type of 5 mm thick copper bars
- the maximum permissible current

Example

Upstream: incoming connection by cables to terminal extension bars

- device: fixed Masterpact NT16
- $IP \leq 30$, edgewise bars
- ambient temperature outside switchboard $T = 35^\circ\text{C}$
- $3b \times 63$ mm wide per phase, $I = 1600$ A.

Downstream: connection to flat busbars via transfer busbars

- device: fixed Masterpact NT16
- $IP \leq 30$, flat bars
- ambient temperature outside switchboard $T = 35^\circ\text{C}$
- $4b \times 50$ mm wide, $I = 1600$ A
- horizontal part: edgewise bars: $3b \times 63 \times 5$ mm, $I = 1600$ A.

Example using Schneider Electric prefabricated solutions:

Upstream and downstream NT16 connections

Upstream: incoming connection by cables to terminal extension bars

- device: fixed Masterpact NT16, 4P
- use:
 - vertical connectors cat. No. **33643**
 - cable-lug adapters cat. No. **33645**
 - spacer cat. No. **07251**

Downstream: direct connection to Linergy busbars

- use:
 - vertical connection adapters cat. No. **33643**
 - prefabricated downstream connection cat. No. **07243**

3 - device connection

By insulated flexible copper straps:

- an insulated flexible bar alone is covered by standards: IEC 60243-1 (dielectric), NFC 32201 (insulation), IEC 60332-1 (fire)
 - a flexible bar connected to a device in an enclosure is covered by standard IEC 60439-1 (see explanation on page 139).
- To determine the cross-section of the insulated flexible bars to be used, refer to the table on page 139 that gives the required cross-section for each type of device.

Example:

- to supply an NS630:
- required cross-section: 32 x 8 mm

By cables:

Use the table on page 163

Example:

- to supply an NS250:
- required cross-section: 95 mm²

Example using Schneider Electric prefabricated solutions:

- NS630 circuit breaker: prefabricated connection
- use connection cat. No. 07235
- NS250 circuit breaker: prefabricated connection
- use connection cat. No. 07231

4 - PE conductor

Two methods are available:

- method 1: Use the formula given in standard IEC 60439-1 to obtain an optimised value (see page 164)

$$S_{PE} = \frac{\sqrt{I^2 t}}{k}$$

Example:

- $I_{sc} = 36 \text{ kA} \Rightarrow$ value of the phase-to-earth fault current = 60% of the value of the phase-to-phase fault current (standard IEC 60438-1 §8.2.4.2).
 - $36 \times 0.6 = 21.6 \text{ kA}$
 - maximum delay on the control unit: 0.5 s
 - $k = 143$ for PVC-insulated copper conductors.
- Therefore, the calculation gives:

$$S_{PE} = \frac{\sqrt{21600^2 \times 0.5}}{143} = 106.8 \text{ mm}^2$$

Which gives the cross-section of the PE conductor to be used: a 25 x 5 mm bars (= 125 mm²).

- method 2: Use the Schneider Electric table based on the standard (see page 164)

Example:

- directly from the table: Masterpact NT, $I_{sc} \leq 40 \text{ kA}$:
- ⇒ cross-section to be used: one 25 x 5 mm bar

Example using Schneider Electric prefabricated solutions:

- PE conductor:
- use the PE conductor set cat. No. 07428 (up to an I_{sc} of 85 kA)

Linergy busbars ($I_n \leq 1600$ A)

Current depending on of temperature

The maximum current for busbars depends on the surrounding thermal environment.

The type and cross-section of conductors must be sufficient to allow the flow of the required current depending on the temperatures reached in the switchboard (refer to the section on "thermal management of switchboards" to determine these temperatures).

These conductors are subject to additional heating by the current that flows through them.

The temperatures reached on the conductors and on the insulation material must not exceed the maximum temperatures for which they were designed.

Merlin Gerin busbars and distribution blocks are sized for use in Prisma switchboards without any specific constraints under normal ambient conditions (standard switchboard configuration, temperature of 35°C outside the switchboard).

Choice of type of section

Temperature around the switchboard	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Section/phase	IP $\leq$ 30	IP $\geq$ 31	IP $\leq$ 30	IP $\geq$ 31	IP $\leq$ 30	IP $\geq$ 31	IP $\leq$ 30	IP $\geq$ 31	IP $\leq$ 30	IP $\geq$ 31	IP $\leq$ 30	IP $\geq$ 31
Linergy 630	730	680	680	630	630	570	600	540	570	520	540	500
Linergy 800	880	810	850	780	810	750	780	700	750	720	700	680
Linergy 1000	1120	1020	1060	960	1020	920	960	880	920	840	860	800
Linergy 1250	1320	1250	1280	1140	1250	1060	1140	1000	1060	980	1000	920
Linergy 1600	1830	1650	1740	1570	1650	1480	1570	1360	1480	1400	1360	1300



Linergy 630 section
Cat. No. 07361



Linergy 800 section
Cat. No. 07362



Linergy 1000 section
Cat. No. 07363



Linergy 1250 section
Cat. No. 07364



Linergy 1600 section
Cat. No. 07365

Number of supports according to Icw

Icw (kA rms/1s)	25	30	39	52	60	66	85
Linergy 630	3						
Linergy 800	3	3					
Linergy 1000	3	3	3				
Linergy 1250	3	3	3	3	3		
Linergy 1600	3	3	3	3	3	4	6

Note: When the switchboard is supplied directly from the Linergy busbars via a cable, fit an additional bar support.

Flat busbars up to 3200 A

Choice of bars and permissible current

Optimise the busbar cross-sections according to installation and operating criteria.

Cu bar, thickness: 5 mm

Temperature around the switchboard	25 °C		30 °C		35 °C		40 °C		45 °C		50 °C	
Section/phase	IP ≤ 30	IP ≥ 31	IP ≤ 30	IP ≥ 31	IP ≤ 30	IP ≥ 31	IP ≤ 30	IP ≥ 31	IP ≤ 30	IP ≥ 31	IP ≤ 30	IP ≥ 31
1b x 25	390	350	370	335	350	320	340	310	320	290	300	250
1b x 32	460	440	450	420	440	400	410	370	390	350	370	330
2b x 32	840	780	810	750	770	710	740	670	700	630	660	600
3b x 32	1110	1030	1070	1000	1030	950	990	900	940	850	890	790
1b x 40	610	550	580	520	550	500	520	480	490	450	460	430
2b x 40	1100	960	1050	920	1000	890	960	850	920	810	870	760
3b x 40	1380	1250	1330	1210	1280	1160	1230	1100	1170	1050	1100	990
1b x 50	700	650	670	620	650	600	620	570	590	530	570	510
2b x 50	1250	1100	1200	1050	1150	1000	1100	950	1050	910	1000	860
3b x 50	1630	1430	1560	1380	1500	1320	1430	1260	1360	1200	1300	1150
1b x 63	810	760	770	730	750	700	710	670	670	640	640	600
2b x 63	1460	1260	1400	1200	1350	1150	1280	1100	1220	1050	1160	990
3b x 63	1900	1740	1820	1670	1750	1600	1660	1530	1580	1450	1500	1380
1b x 80	1080	970	1040	940	1000	900	950	860	920	830	870	790
2b x 80	1790	1580	1710	1520	1650	1450	1570	1380	1500	1320	1430	1260
3b x 80	2330	2070	2250	1990	2150	1900	2050	1820	1950	1730	1850	1650
1b x100	1300	1140	1250	1100	1200	1050	1150	1000	1100	960	1050	920
2b x 100	2060	1750	1980	1680	1900	1600	1810	1520	1720	1450	1630	1370
3b x 100	2760	2400	2650	2300	2550	2200	2430	2100	2320	2000	2200	1900
4b x 100	3200	2700	3070	2600	2950	2500	2820	2400	2700	2300	2580	2200
1b x125	1460	1300	1400	1250	1350	1200	1290	1150	1230	1100	1150	1040
2b x 125	2350	2120	2250	2040	2150	1950	2050	1860	1950	1770	1850	1680
3b x 125	3470	3030	3320	2920	3200	2800	3050	2680	2920	2570	2800	2460

The above values are valid for installation in a Prisma switchboard

Securing of flat busbars up to 1600 A

75 mm between phase centres
Cu bar, thickness: 5 mm

			Rated short-time withstand current I _{cw} (kA rms/1s)																	
Current at 35 °C			12	15	19	23	26	29	33	35	37	39	42	44	46	52	66	69	75	85
IP ≤ 30	IP ≥ 31	section	maximum distance in mm																	
350	320	1b x 25	425	325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
440	400	1b x 32	425	325	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
770	710	2b x 32	1000	775	650	575	500	450	400	350	275	200	-	-	-	-	-	-	-	-
1030	950	3b x 32	1000	1000	750	700	650	600	550	425	350	250	225	200	175	-	-	-	-	-
550	500	1b x 40	425	325	250	225	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1000	890	2b x 40	1000	1000	775	650	575	500	450	400	325	250	225	200	175	-	-	-	-	-
1280	1160	3b x 40	1000	1000	1000	750	650	550	500	450	400	325	250	225	200	175	150	125	-	-
650	600	1b x 50	475	375	300	250	200	175	-	-	-	-	-	-	-	-	-	-	-	-
1150	1000	2b x 50	1000	1000	900	725	650	575	500	475	450	425	400	375	350	275	175	-	-	-
750	700	1b x 63	550	425	350	275	250	225	200	175	150	150	-	-	-	-	-	-	-	-
1350	1150	2b x 63	1000	1000	1000	850	750	675	575	550	525	500	425	400	350	275	175	150	125	100
1750	1600	3b x 63	1000	1000	1000	1000	1000	1000	950	850	750	650	625	450	475	375	225	200	175	150
1000	900	1b x 80	625	575	450	325	325	300	250	250	225	175	175	150	150	125	-	-	-	-
1650	1450	2b x 80	1000	1000	1000	975	850	775	675	625	600	525	450	425	375	300	175	175	125	100
1200	1050	1b x 100	725	575	450	375	325	300	250	250	225	225	200	175	175	150	125	-	-	-
1900	1600	2b x 100	1000	1000	1000	1000	1000	1000	1000	900	800	700	650	600	550	400	250	225	175	150
1350	1200	1b x 125	850	675	525	425	375	350	300	275	275	250	225	225	200	175	150	125	125	-

Securing of flat busbars up to 3200 A

Entraxe entre phases 112,5 mm
Cu bar, thickness: 5 mm.

Current at 35 °C			Rated short-time withstand current I _{cw} (kA rms/1s)															
			12	23	30	35	37	39	42	44	46	52	55	58	66	69	75	85
IP ≤ 30	IP ≥ 31	section	maximum distance in mm															
1000	900	1b x 80	700	550	350	250	225	225	200	200	175	150	-	-	-	-	-	-
1200	1050	1b x 100	850	650	375	275	250	250	225	225	200	175	175	175	150	125	125	100
1350	1200	1b x 125	950	700	425	325	300	275	275	250	250	200	200	200	175	150	150	125
1000	890	2b x 40	850	700	600	500	475	400	425	350	300	-	-	-	-	-	-	-
1150	1000	2b x 50	1000	800	650	575	550	525	475	450	425	375	300	250	200	-	-	-
1350	1150	2b x 63	1000	850	750	650	625	575	550	525	500	400	350	300	225	200	150	125
1650	1450	2b x 80	1000	900	850	750	700	675	625	575	525	400	375	325	250	225	175	125
1900	1600	2b x 100	1000	950	900	850	800	775	675	600	550	425	375	350	275	250	200	150
2150	1950	2b x 125	1000	1000	1000	975	900	825	700	625	575	450	400	350	275	250	200	175
1280	1160	3b x 40	1000	900	825	775	725	700	600	550	500	375	350	300	-	-	-	-
1500	1320	3b x 50	1000	1000	925	875	775	700	600	550	500	400	350	300	225	225	175	-
1750	1600	3b x 63	1000	1000	1000	900	800	725	625	550	525	400	350	325	250	225	175	150
2150	1900	3b x 80	1000	1000	1000	925	825	750	625	575	525	400	375	350	250	250	200	150
2550	2200	3b x 100	1000	1000	1000	950	850	775	650	600	550	425	375	350	250	250	200	150
3200	2800	3b x 125	1000	1000	1000	1000	900	800	700	625	575	450	400	350	275	250	200	175

The above values are valid for installation in a Prisma switchboard

Calculations for Linergy
secondary busbars

Types of bars
All the loads supplied by a set of busbars are not necessarily used at full rated load or all at the same time. The rated diversity factor is used to determine the maximum rated current which is, in turn, used to size the busbars.

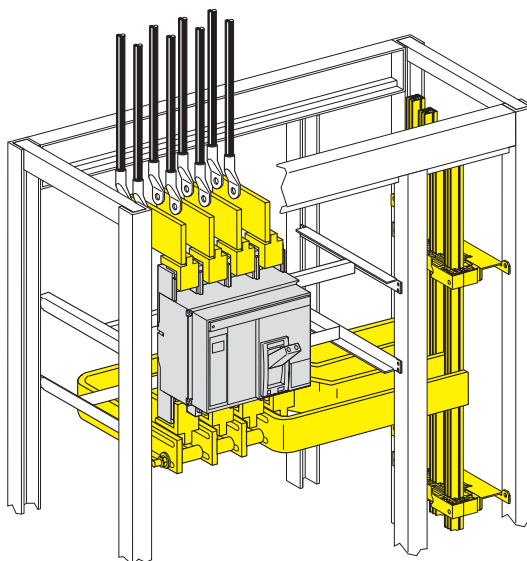
Standard EN 60439-1 §4.7 gives the following table.

number of circuits	diversity factor
2 and 3	0.9
4 and 5	0.8
6 to 9 inclusive	0.7
10 and above	0.6

The above values are valid for installation in a Prisma switchboard

Prefabricated connections Compact NS and Masterpact NT circuit-breakers

Compact circuit breakers NS630b to 1600 fixed



	NS630b	NS800	NS1000	NS1250	NS1600
	I (A)	I (A)	I (A)	I (A)	I (A)
IP ≤ 30 prefabricated connection					
20	630	800	1000	1250	1600
25	630	800	1000	1250	1600
30	630	800	1000	1250	1600
35	630	800	1000	1250	1600
40	630	800	1000	1250	1600
45	630	800	1000	1250	1560
50	630	800	1000	1220	1460
IP ≥ 31 prefabricated connection					
20	630	800	1000	1250	1600
25	630	800	1000	1250	1600
30	630	800	1000	1250	1600
35	630	800	1000	1250	1560
40	630	800	1000	1220	1460
45	630	800	980	1140	1360
50					

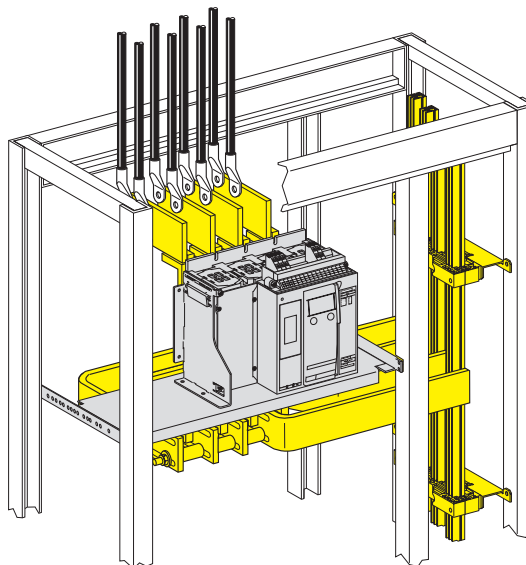
Compact circuit breakers NS630b to 1600 withdrawable

	NS630b	NS800	NS1000	NS1250	NS1600
	I (A)	I (A)	I (A)	I (A)	I (A)
IP ≤ 30 prefabricated connection					
20	630	800	1000	1250	1600
25	630	800	1000	1250	1600
30	630	800	1000	1250	1600
35	630	800	1000	1250	1600
40	630	800	1000	1250	1540
45	630	800	1000	1250	1490
50	630	800	1000	1210	1400
IP ≥ 31 prefabricated connection					
20	630	800	1000	1250	1600
25	630	800	1000	1250	1600
30	630	800	1000	1250	1540
35	630	800	1000	1250	1490
40	630	800	1000	1210	1400
45	630	800	1000	1130	1300
50					

The above values are valid for installation in a Prisma switchboard

Prefabricated connections Compact NS and Masterpact NT circuit-breakers

Masterpact circuit breakers NT06 to 16 fixed



	NT06	NT08	NT10	NT12	NT16
	I (A)	I (A)	I (A)	I (A)	I (A)
IP ≤ 30 prefabricated connection					
20	630	800	1000	1250	1600
25	630	800	1000	11250	1600
30	630	800	1000	1250	1600
35	630	800	1000	1250	1600
40	630	800	1000	1250	1600
45	630	800	1000	1250	1560
50	630	800	1000	1220	1460
IP ≥ 31 prefabricated connection					
20	630	800	1000	1250	1600
25	630	800	1000	1250	1600
30	630	800	1000	1250	1600
35	630	800	1000	1250	1580
40	630	800	1000	1250	1500
45	630	800	1000	1220	1400
50					

Masterpact circuit breakers NT06, 16 withdrawable

	NT06	NT08	NT10	NT12	NT16
	I (A)	I (A)	I (A)	I (A)	I (A)
IP ≤ 30 prefabricated connection					
20	630	800	1000	1250	1600
25	630	800	1000	1250	1600
30	630	800	1000	1250	1600
35	630	800	1000	1250	1600
40	630	800	1000	1250	1540
45	630	800	1000	1250	1490
50	630	800	1000	1210	1400
IP ≥ 31 prefabricated connection					
20	630	800	1000	1250	1600
25	630	800	1000	1250	1600
30	630	800	1000	1250	1540
35	630	800	1000	1250	1490
40	630	800	1000	1210	1400
45	630	800	1000	1130	1300
50					

The above values are valid for installation in a Prisma switchboard

Sizing of device connections

Compact circuit breakers

NS100 to NS630

Compact circuit breakers NS100/250

5 mm thick copper bars.

		NS100 TMD-TMG		NS125 TMD-TMG		NS160 ⁽¹⁾ TMD-TMG		NS250 ⁽¹⁾ TMD-TMG		NS100 electronic trip unit		NS160 electronic trip unit		NS250 ⁽²⁾ electronic trip unit	
		section/ phase	I (A)	section/ phase	I (A)	section/ phase	I (A)	section/ phase	I (A)	section/ phase	I (A)	section/ phase	I (A)	section/ phase	I (A)
IP ≤ 54	T° around the switchboard														
	20 °C	20 x 2	100	20 x 2	125	20 x 3	160	20 x 3	250	20 x 2	100	20 x 3	160	20 x 3	250
	25 °C	20 x 2	100	20 x 2	125	20 x 3	160	20 x 3	250	20 x 2	100	20 x 3	160	20 x 3	250
	30 °C	20 x 2	97.5	20 x 2	122	20 x 3	156	20 x 3	244	20 x 2	100	20 x 3	160	20 x 3	250
	35 °C	20 x 2	95	20 x 2	119	20 x 3	152	20 x 3	238	20 x 2	100	20 x 3	160	20 x 3	237.5
	40 °C	20 x 2	92.5	20 x 2	116	20 x 3	147	20 x 3	231	20 x 2	100	20 x 3	160	20 x 3	237.5
	45 °C	20 x 2	90	20 x 2	113	20 x 3	144	20 x 3	225	20 x 2	100	20 x 3	160	20 x 3	225
	50 °C	20 x 2	85	20 x 2	100	20 x 3	140	20 x 3	198	20 x 2	100	20 x 3	160	20 x 3	225

(1) for an NS160 or NS250 withdrawable equipped with a Vigi earth-leakage protection module or an insulation monitoring device, multiply the values by 0.9.

(2) for an NS250 withdrawable equipped with a Vigi earth-leakage protection module or an insulation monitoring device, multiply the values by 0.86.

Compact circuit breakers NS400/630

5 mm thick copper bars.

		NS400N/H/L fixed		NS400N/H/L with Vigi		NS400N/H/L withdrawable		NS630N/H/L fixed		NS630N/H/L with Vigi or withdrawable	
		section/ phase	I (A)	section/ phase	I (A)	section/ phase	I (A)	section/ phase	I (A)	section/ phase	I (A)
IP ≤ 54	T° around the switchboard										
	25	32 x 5	400	32 x 5	400	32 x 5	400	32 x 6	630	32 x 8	570
	30	32 x 5	400	32 x 5	390	32 x 5	390	32 x 6	615	32 x 8	550
	35	32 x 5	400	32 x 5	380	32 x 5	380	32 x 6	600	32 x 8	535
	40	32 x 5	390	32 x 5	370	32 x 5	370	32 x 6	585	32 x 8	520
	45	32 x 5	380	32 x 5	360	32 x 5	360	32 x 6	570	32 x 8	505
	50	32 x 5	370	32 x 5	350	32 x 5	350	32 x 6	550	32 x 8	490

The above values are valid for installation in a Prisma switchboard

Sizing of device connections

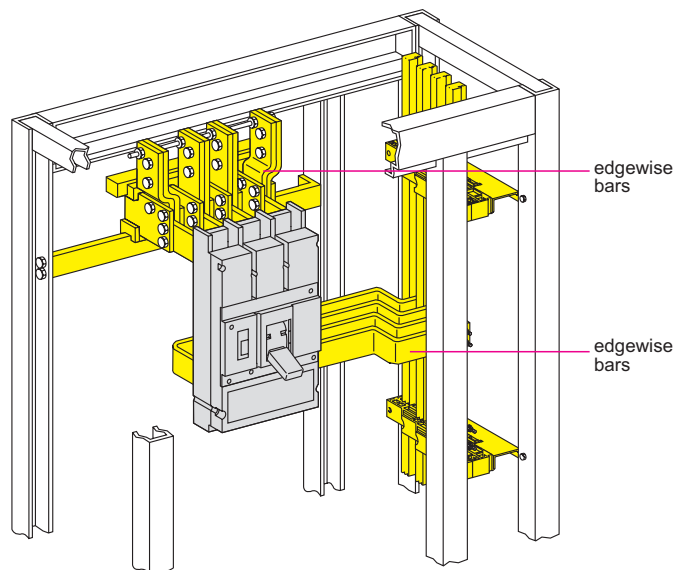
Compact circuit breakers

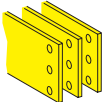
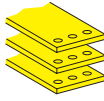
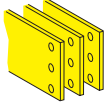
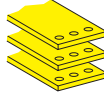
C801 to C1251 fixed and withdrawable

Compact circuit breakers C801/C1001/C1251 fixed

Depending on the way it is laid, a connection may be considered edgewise or flat.

5 mm thick copper bars.



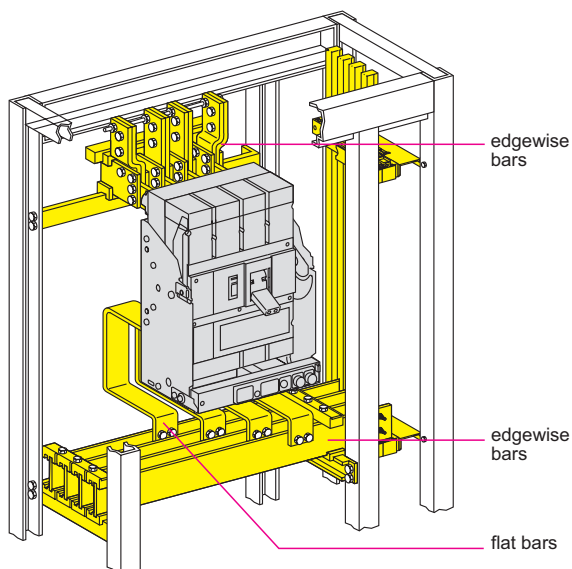
		C801N/H/L STR		C1001N/H STR		C1001L STR		C1251N/H STR	
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)
IP ≤ 30		T° around the switchboard							
 Edgewise bars	20 °C	2b x 50	800	2b x 50	1000	2b x 50	1000	2b x 63	1250
	25 °C	2b x 50	790	2b x 50	975	2b x 50	975	2b x 63	1200
	30 °C	2b x 50	780	2b x 50	950	2b x 50	950	2b x 63	1150
	35 °C	2b x 50	770	2b x 50	925	2b x 50	925	2b x 63	1100
	40 °C	2b x 50	760	2b x 50	900	2b x 50	900	2b x 63	1050
	45 °C	2b x 50	735	2b x 50	840	2b x 50	840	2b x 63	930
	50 °C	2b x 50	715	2b x 50	780	2b x 50	780	2b x 63	810
 Flat bars	20 °C	2b x 50	800	3b x 50	1000	3b x 50	1000	3b x 50	1250
	25 °C	2b x 50	790	3b x 50	975	3b x 50	975	3b x 50	1200
	30 °C	2b x 50	780	3b x 50	950	3b x 50	950	3b x 50	1150
	35 °C	2b x 50	770	3b x 50	925	3b x 50	925	3b x 50	1100
	40 °C	2b x 50	760	3b x 50	900	3b x 50	900	3b x 50	1050
	45 °C	2b x 50	735	3b x 50	840	3b x 50	840	3b x 50	930
	50 °C	2b x 50	715	3b x 50	780	3b x 50	780	3b x 50	810
IP ≥ 31		T° around the switchboard							
 Edgewise bars	20 °C	2b x 50	790	2b x 50	975	2b x 50	975	2b x 63	1200
	25 °C	2b x 50	780	2b x 50	950	2b x 50	950	2b x 63	1150
	30 °C	2b x 50	770	2b x 50	925	2b x 50	925	2b x 63	1100
	35 °C	2b x 50	750	2b x 50	900	2b x 50	900	2b x 63	1050
	40 °C	2b x 50	735	2b x 50	840	2b x 50	840	2b x 63	930
	45 °C	2b x 50	715	2b x 50	780	2b x 50	780	2b x 63	810
	50 °C	2b x 50	690	2b x 50	710	2b x 50	710	2b x 63	665
 Flat bars	20 °C	2b x 50	790	3b x 50	975	3b x 50	975	4b x 50	1200
	25 °C	2b x 50	780	3b x 50	950	3b x 50	950	4b x 50	1150
	30 °C	2b x 50	770	3b x 50	925	3b x 50	925	4b x 50	1100
	35 °C	3b x 50	760	3b x 50	900	3b x 50	900	4b x 50	1050
	40 °C	3b x 50	735	3b x 50	840	3b x 50	840	4b x 50	930
	45 °C	3b x 50	715	3b x 50	780	3b x 50	780	4b x 50	810
	50 °C	3b x 50	690	3b x 50	710	3b x 50	710	4b x 50	665

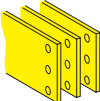
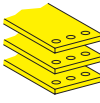
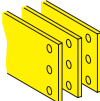
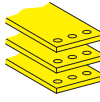
The above values are valid for installation in a Prisma switchboard

Compact circuit breakers C801/C1001/C1251 withdrawable

5 mm thick copper bars.

Depending on the way it is laid, a connection
may be considered edgewise or flat.
See examples opposite



		C801N/H/L STR		C1001N/H STR		C1001L STR		C1251N/H STR	
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)
IP ≤ 30	T° around the switchboard								
 Edgewise bars	20 °C	2b x 50	800	2b x 50	1000	2b x 50	910	2b x 63	1160
	25 °C	2b x 50	790	2b x 50	975	2b x 50	885	2b x 63	1120
	30 °C	2b x 50	780	2b x 50	950	2b x 50	860	2b x 63	1080
	35 °C	2b x 50	770	2b x 50	925	2b x 50	835	2b x 63	1040
	40 °C	2b x 50	760	2b x 50	900	2b x 50	800	2b x 63	1000
	45 °C	2b x 50	735	2b x 50	840	2b x 50	730	2b x 63	910
	50 °C	2b x 50	715	2b x 50	780	2b x 50	665	2b x 63	820
 Flat bars	20 °C	2b x 50	800	3b x 50	1000	2b x 50	910	3b x 50	1160
	25 °C	2b x 50	790	3b x 50	975	2b x 50	885	3b x 50	1120
	30 °C	2b x 50	780	3b x 50	950	2b x 50	860	3b x 50	1080
	35 °C	2b x 50	770	3b x 50	925	2b x 50	835	3b x 50	1040
	40 °C	2b x 50	760	3b x 50	900	3b x 50	800	3b x 50	1000
	45 °C	2b x 50	735	3b x 50	840	3b x 50	730	3b x 50	910
	50 °C	2b x 50	715	3b x 50	780	3b x 50	665	3b x 50	820
IP ≥ 31	T° around the switchboard								
 Edgewise bars	20 °C	2b x 50	790	2b x 50	975	2b x 50	885	2b x 63	1120
	25 °C	2b x 50	780	2b x 50	950	2b x 50	860	2b x 63	1080
	30 °C	2b x 50	770	2b x 50	925	2b x 50	835	2b x 63	1040
	35 °C	2b x 50	760	2b x 50	900	2b x 50	800	2b x 63	1000
	40 °C	2b x 50	735	2b x 50	840	2b x 50	730	2b x 63	910
	45 °C	2b x 50	715	2b x 50	780	2b x 50	665	2b x 63	820
	50 °C	2b x 50	690	2b x 50	710	2b x 50	580	2b x 63	710
 Flat bars	20 °C	2b x 50	790	3b x 50	975	3b x 50	885	3b x 50	1120
	25 °C	2b x 50	780	3b x 50	950	3b x 50	860	3b x 50	1080
	30 °C	2b x 50	770	3b x 50	925	3b x 50	835	3b x 50	1040
	35 °C	3b x 50	760	3b x 50	900	3b x 50	800	3b x 50	1000
	40 °C	3b x 50	735	3b x 50	840	3b x 50	730	3b x 50	910
	45 °C	3b x 50	715	3b x 50	780	3b x 50	665	3b x 50	820
	50 °C	3b x 50	690	3b x 50	710	3b x 50	580	3b x 50	710

The above values are valid for installation in a Prisma switchboard

Sizing of device connections

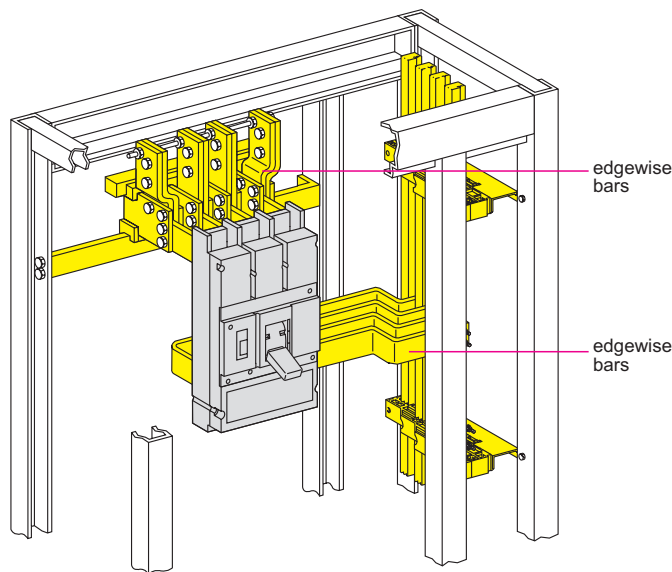
Compact circuit breakers

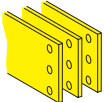
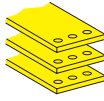
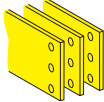
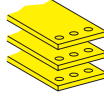
C801 to C1251 fixed and withdrawable

Compact circuit breakers C801/C1001/C1251 fixed

Depending on the way it is laid, a connection may be considered edgewise or flat.

5 mm thick copper bars.



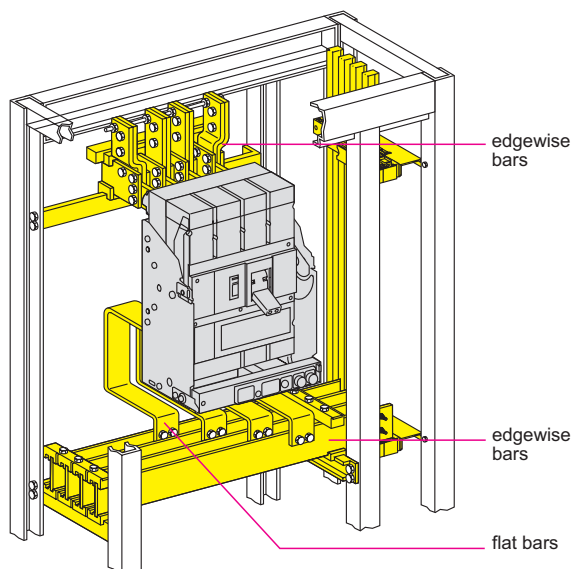
		C801N/H/L STR		C1001N/H STR		C1001L STR		C1251N/H STR	
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)
IP ≤ 30		T° around the switchboard							
 Edgewise bars	20 °C	2b x 50	800	2b x 50	1000	2b x 50	1000	2b x 63	1250
	25 °C	2b x 50	790	2b x 50	975	2b x 50	975	2b x 63	1200
	30 °C	2b x 50	780	2b x 50	950	2b x 50	950	2b x 63	1150
	35 °C	2b x 50	770	2b x 50	925	2b x 50	925	2b x 63	1100
	40 °C	2b x 50	760	2b x 50	900	2b x 50	900	2b x 63	1050
	45 °C	2b x 50	735	2b x 50	840	2b x 50	840	2b x 63	930
	50 °C	2b x 50	715	2b x 50	780	2b x 50	780	2b x 63	810
 Flat bars	20 °C	2b x 50	800	3b x 50	1000	3b x 50	1000	3b x 50	1250
	25 °C	2b x 50	790	3b x 50	975	3b x 50	975	3b x 50	1200
	30 °C	2b x 50	780	3b x 50	950	3b x 50	950	3b x 50	1150
	35 °C	2b x 50	770	3b x 50	925	3b x 50	925	3b x 50	1100
	40 °C	2b x 50	760	3b x 50	900	3b x 50	900	3b x 50	1050
	45 °C	2b x 50	735	3b x 50	840	3b x 50	840	3b x 50	930
	50 °C	2b x 50	715	3b x 50	780	3b x 50	780	3b x 50	810
IP ≥ 31		T° around the switchboard							
 Edgewise bars	20 °C	2b x 50	790	2b x 50	975	2b x 50	975	2b x 63	1200
	25 °C	2b x 50	780	2b x 50	950	2b x 50	950	2b x 63	1150
	30 °C	2b x 50	770	2b x 50	925	2b x 50	925	2b x 63	1100
	35 °C	2b x 50	750	2b x 50	900	2b x 50	900	2b x 63	1050
	40 °C	2b x 50	735	2b x 50	840	2b x 50	840	2b x 63	930
	45 °C	2b x 50	715	2b x 50	780	2b x 50	780	2b x 63	810
	50 °C	2b x 50	690	2b x 50	710	2b x 50	710	2b x 63	665
 Flat bars	20 °C	2b x 50	790	3b x 50	975	3b x 50	975	4b x 50	1200
	25 °C	2b x 50	780	3b x 50	950	3b x 50	950	4b x 50	1150
	30 °C	2b x 50	770	3b x 50	925	3b x 50	925	4b x 50	1100
	35 °C	3b x 50	760	3b x 50	900	3b x 50	900	4b x 50	1050
	40 °C	3b x 50	735	3b x 50	840	3b x 50	840	4b x 50	930
	45 °C	3b x 50	715	3b x 50	780	3b x 50	780	4b x 50	810
	50 °C	3b x 50	690	3b x 50	710	3b x 50	710	4b x 50	665

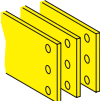
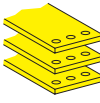
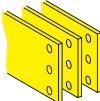
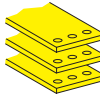
The above values are valid for installation in a Prisma switchboard

Compact circuit breakers C801/C1001/C1251 withdrawable

5 mm thick copper bars.

Depending on the way it is laid, a connection
may be considered edgewise or flat.
See examples opposite



		C801N/H/L STR		C1001N/H STR		C1001L STR		C1251N/H STR	
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)
IP ≤ 30	T° around the switchboard								
 Edgewise bars	20 °C	2b x 50	800	2b x 50	1000	2b x 50	910	2b x 63	1160
	25 °C	2b x 50	790	2b x 50	975	2b x 50	885	2b x 63	1120
	30 °C	2b x 50	780	2b x 50	950	2b x 50	860	2b x 63	1080
	35 °C	2b x 50	770	2b x 50	925	2b x 50	835	2b x 63	1040
	40 °C	2b x 50	760	2b x 50	900	2b x 50	800	2b x 63	1000
	45 °C	2b x 50	735	2b x 50	840	2b x 50	730	2b x 63	910
	50 °C	2b x 50	715	2b x 50	780	2b x 50	665	2b x 63	820
 Flat bars	20 °C	2b x 50	800	3b x 50	1000	2b x 50	910	3b x 50	1160
	25 °C	2b x 50	790	3b x 50	975	2b x 50	885	3b x 50	1120
	30 °C	2b x 50	780	3b x 50	950	2b x 50	860	3b x 50	1080
	35 °C	2b x 50	770	3b x 50	925	2b x 50	835	3b x 50	1040
	40 °C	2b x 50	760	3b x 50	900	3b x 50	800	3b x 50	1000
	45 °C	2b x 50	735	3b x 50	840	3b x 50	730	3b x 50	910
	50 °C	2b x 50	715	3b x 50	780	3b x 50	665	3b x 50	820
IP ≥ 31	T° around the switchboard								
 Edgewise bars	20 °C	2b x 50	790	2b x 50	975	2b x 50	885	2b x 63	1120
	25 °C	2b x 50	780	2b x 50	950	2b x 50	860	2b x 63	1080
	30 °C	2b x 50	770	2b x 50	925	2b x 50	835	2b x 63	1040
	35 °C	2b x 50	760	2b x 50	900	2b x 50	800	2b x 63	1000
	40 °C	2b x 50	735	2b x 50	840	2b x 50	730	2b x 63	910
	45 °C	2b x 50	715	2b x 50	780	2b x 50	665	2b x 63	820
	50 °C	2b x 50	690	2b x 50	710	2b x 50	580	2b x 63	710
 Flat bars	20 °C	2b x 50	790	3b x 50	975	3b x 50	885	3b x 50	1120
	25 °C	2b x 50	780	3b x 50	950	3b x 50	860	3b x 50	1080
	30 °C	2b x 50	770	3b x 50	925	3b x 50	835	3b x 50	1040
	35 °C	3b x 50	760	3b x 50	900	3b x 50	800	3b x 50	1000
	40 °C	3b x 50	735	3b x 50	840	3b x 50	730	3b x 50	910
	45 °C	3b x 50	715	3b x 50	780	3b x 50	665	3b x 50	820
	50 °C	3b x 50	690	3b x 50	710	3b x 50	580	3b x 50	710

The above values are valid for installation in a Prisma switchboard

Sizing of device connections

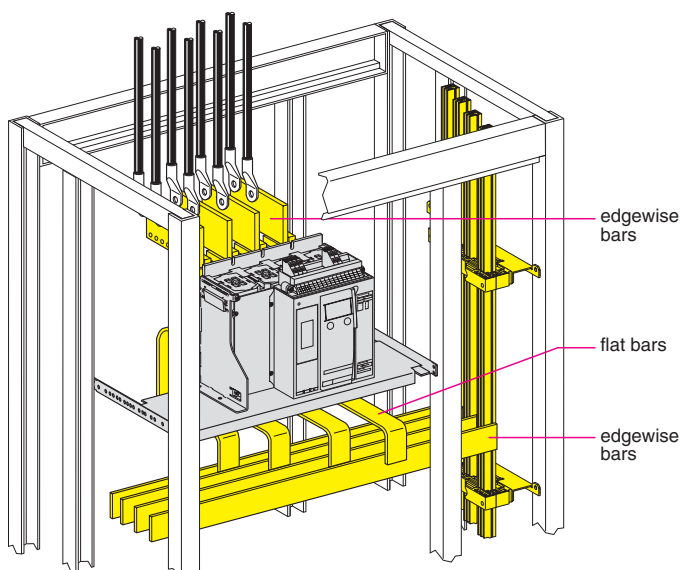
Masterpact circuit breakers

NT06 to NT16 fixed and drawout

Masterpact circuit breakers NT06/NT16 fixed

Depending on the way it is laid, a connection may be considered edgewise or flat.
See examples opposite

5 mm thick copper bars.



		NT06		NT08		NT10		NT12		NT16		
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	
IP ≤ 30	T° around the switchboard											
	Edgewise bars	20 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		25 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		30 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		35 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		40 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		45 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		50 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1550
	Flat bars	20 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		25 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		30 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		35 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		40 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		45 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1560
		50 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1480
IP ≥ 31	T° around the switchboard											
	Edgewise bars	20 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		25 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		30 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		35 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		40 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1550
		45 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1200	3b 63 x 5	1460
		50 °C	■		■		■		■		■	
	Flat bars	20 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		25 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		30 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		35 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1560
		40 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1480
		45 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1180	4b 50 x 5	1380
		50 °C	■		■		■		■		■	

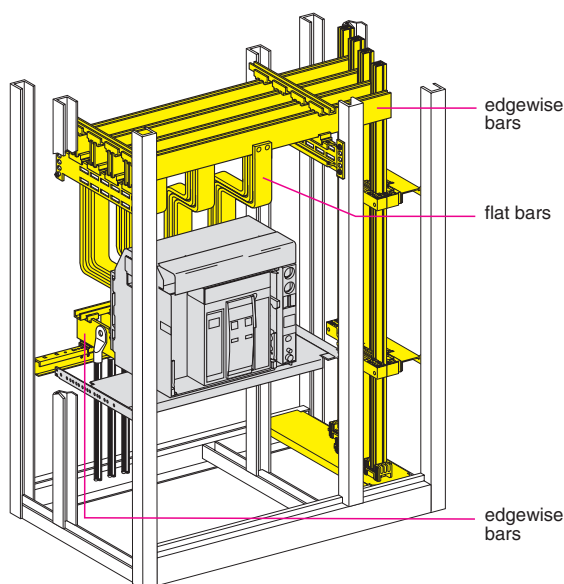
■ connection not possible

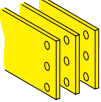
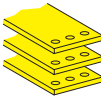
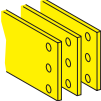
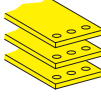
The above values are valid for installation in a Prisma switchboard

Masterpact circuit breakers NT08/NT16 drawout

5 mm thick copper bars.

Depending on the way it is laid, a connection may be considered edgewise or flat.
See examples opposite



		NT06		NT08		NT10		NT12		NT16		
		nb of bars I (A) per phase		nb of bars I (A) per phase		nb of bars per phase I (A)		nb of bars per phase I (A)		nb of bars per phase I (A)		
IP ≤ 30	T° around the switchboard											
	Edgewise bars	20 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		25 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		30 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		35 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		40 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		45 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1530
		50 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1180	3b 63 x 5	1440
	Flat bars	20 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		25 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		30 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		35 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		40 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1520
		45 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1230	4b 50 x 5	1470
		50 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1160	4b 50 x 5	1390
IP ≥ 31	T° around the switchboard											
	Edgewise bars	20 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		25 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		30 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1600
		35 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1250	3b 63 x 5	1530
		40 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	1000	2b 63 x 5	1180	3b 63 x 5	1440
		45 °C	1b 63 x 5	630	1b 80 x 5	800	2b 50 x 5	980	2b 63 x 5	1100	3b 63 x 5	1340
		50 °C	■		■		■		■		■	
	Flat bars	20 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		25 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1600
		30 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1250	4b 50 x 5	1520
		35 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1230	4b 50 x 5	1470
		40 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	1000	3b 50 x 5	1160	4b 50 x 5	1390
		45 °C	1b 50 x 5	630	2b 50 x 5	800	2b 50 x 5	960	3b 50 x 5	1080	4b 50 x 5	1290
		50 °C	■		■		■		■		■	

■ connection not possible

The above values are valid for installation in a Prisma switchboard

Sizing of device connections

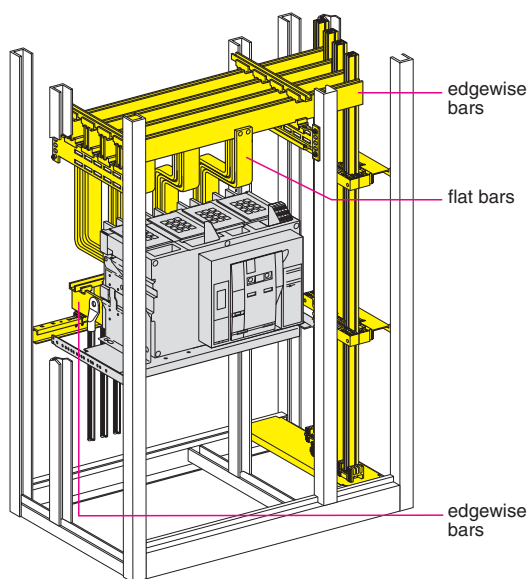
Masterpact circuit breakers

NW08 to NW32 fixed

Masterpact circuit breakers NW08/NW16 fixed

Depending on the way it is laid, a connection may be considered edgewise or flat.
See examples opposite

5 mm thick copper bars.



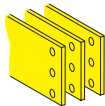
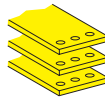
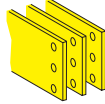
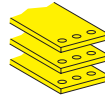
		NW08		NW10		NW12		NW16	
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)
IP ≤ 30		T° around the switchboard							
Edgewise bars	20 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 80	1600
	25 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 80	1600
	30 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 80	1600
	35 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 100	1600
	40 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	2b x 100	1600
	45 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	2b x 100	1600
	50 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	2b x 125	1600
Flat bars	20 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	25 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	30 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	35 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	4b x 80	1600
	40 °C	2b x 63	800	2b x 63	1000	2b x 80	1250	4b x 80	1600
	45 °C	2b x 63	800	2b x 63	1000	2b x 80	1250	4b x 80	1600
	50 °C	2b x 63	800	2b x 63	1000	2b x 80	1250	4b x 80	1600
IP ≥ 31		T° around the switchboard							
Edgewise bars	20 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	2b x 100	1600
	25 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	2b x 100	1600
	30 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	35 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	40 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	45 °C	2b x 50	800	2b x 80	1000	2b x 80	1250	3b x 80	1600
	50 °C	■	■	■	■	■	■	■	■
Flat bars	20 °C	2b x 50	800	2b x 80	1000	3b x 63	1250	4b x 80	1600
	25 °C	2b x 63	800	2b x 80	1000	3b x 63	1250	4b x 80	1600
	30 °C	2b x 63	800	2b x 80	1000	3b x 63	1250	4b x 80	1600
	35 °C	2b x 63	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
	40 °C	2b x 80	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
	45 °C	2b x 80	800	2b x 63	1000	3b x 80	1250	■	■
	50 °C	■	■	■	■	■	■	■	■

■ connection not possible

The above values are valid for installation in a Prisma switchboard

Masterpact circuit breakers NW20/NW32 fixed

5 mm thick copper bars.

		NW20		NW25		NW32	
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)
IP ≤ 30	T° around the switchboard						
	Edgewise bars	2b x 100	2000	3b x 100	2500	4b x 125	3200
	20 °C	2b x 125	2000	3b x 100	2500	4b x 125	3200
	25 °C	2b x 125	2000	3b x 100	2500	4b x 125	3200
	30 °C	2b x 125	2000	4b x 100	2500	4b x 125	3150
	35 °C	3b x 100	2000	4b x 100	2500	4b x 125	3100
	40 °C	3b x 100	2000	4b x 100	2500	4b x 125	3050
	45 °C	3b x 100	2000	4b x 100	2250	■	■
	Flat bars	3b x 100	2000	■	■	■	■
	20 °C	3b x 100	2000	■	■	■	■
	25 °C	4b x 100	2000	■	■	■	■
	30 °C	4b x 100	2000	■	■	■	■
	35 °C	4b x 100	2000	■	■	■	■
	40 °C	4b x 100	2000	■	■	■	■
	45 °C	4b x 100	2000	■	■	■	■
	IP ≥ 31	T° around the switchboard					
	Edgewise bars	2b x 125	2000	4b x 100	2500	4b x 125	3200
	20 °C	2b x 125	2000	4b x 100	2500	4b x 125	3200
	25 °C	3b x 100	2000	4b x 100	2500	4b x 125	3150
	30 °C	3b x 100	2000	3b x 125	2500	4b x 125	3100
	35 °C	3b x 100	2000	3b x 125	2500	4b x 125	3050
	40 °C	3b x 100	2000	4b x 100	2500	■	■
	Flat bars	4b x 100	2000	■	■	■	■
	20 °C	4b x 100	2000	■	■	■	■
	25 °C	5b x 100	2000	■	■	■	■
	30 °C	5b x 100	2000	■	■	■	■
	35 °C	5b x 100	2000	■	■	■	■
	40 °C	5b x 100	2000	■	■	■	■
	45 °C	5b x 100	2000	■	■	■	■
	50 °C	■	■	■	■	■	■

■ connection not possible

Sizing of device connections

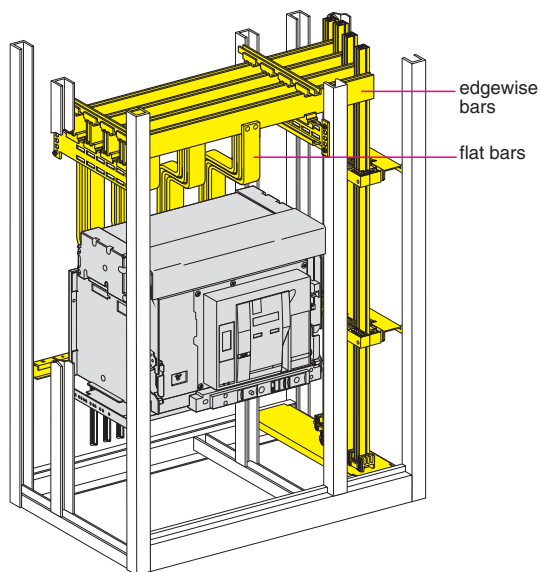
Masterpact circuit breakers

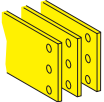
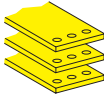
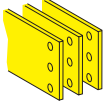
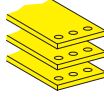
NW08 to NW32 drawout

Masterpact circuit breakers NW08/NW16 drawout

Depending on the way it is laid, a connection may be considered edgewise or flat.
See examples opposite

5 mm thick copper bars.



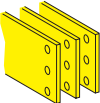
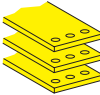
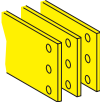
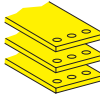
		NW08		NW10		NW12		NW16	
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)
IP ≤ 30	T° around the switchboard								
Edgewise bars 	20 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 80	1600
	25 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 80	1600
	30 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 80	1600
	35 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	3b x 63	1600
	40 °C	2b x 50	800	2b x 50	1000	2b x 50	1250	3b x 63	1600
	45 °C	2b x 50	800	2b x 63	1000	2b x 50	1250	3b x 80	1520
	50 °C	2b x 50	800	2b x 63	1000	2b x 50	1250	3b x 80	1480
Flat bars 	20 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	3b x 80	1600
	25 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	3b x 80	1600
	30 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	3b x 80	1600
	35 °C	2b x 50	800	2b x 50	1000	3b x 80	1250	3b x 80	1600
	40 °C	2b x 50	800	2b x 50	1000	3b x 80	1250	4b x 80	1600
	45 °C	2b x 50	800	2b x 50	1000	3b x 80	1250	4b x 80	1500
	50 °C	2b x 50	800	2b x 50	1000	3b x 80	1250	4b x 80	1400
IP ≥ 31	T° around the switchboard								
Edgewise bars 	20 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	3b x 80	1600
	25 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	3b x 80	1600
	30 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	35 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1550
	40 °C	2b x 50	800	2b x 63	1000	3b x 80	1250	3b x 80	1520
	45 °C	2b x 50	800	2b x 63	1000	3b x 80	1250	3b x 80	1480
	50 °C	■	■	■	■	■	■	■	■
Flat bars 	20 °C	2b x 63	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
	25 °C	2b x 63	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
	30 °C	2b x 63	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
	35 °C	3b x 63	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
	40 °C	2b x 80	800	2b x 80	1000	3b x 80	1250	4b x 80	1500
	45 °C	2b x 80	800	2b x 80	1000	3b x 80	1250	4b x 80	1400
	50 °C	■	■	■	■	■	■	■	■

■ connection not possible

The above values are valid for installation in a Prisma switchboard

Masterpact circuit breakers NW20/NW32 drawout

5 mm thick copper bars.

		NW20		NW25		NW32	
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)
IP ≤ 30		T° around the switchboard					
 Edgewise bars	20 °C	2b x 125	2000	3b x 100	2500	3b x 125	3200
	25 °C	2b x 125	2000	3b x 100	2500	3b x 125	3200
	30 °C	2b x 125	2000	3b x 100	2500	3b x 125	3140
	35 °C	2b x 125	2000	4b x 100	2500	3b x 125	3020
	40 °C	3b x 100	2000	4b x 100	2500	3b x 125	2900
	45 °C	3b x 100	1900	4b x 100	2400	3b x 125	2820
	50 °C	3b x 100	1800	4b x 100	2320	4b x 125	2750
 Flat bars	20 °C	3b x 100	2000	■	■	■	■
	25 °C	3b x 100	2000	■	■	■	■
	30 °C	3b x 100	2000	■	■	■	■
	35 °C	4b x 100	2000	■	■	■	■
	40 °C	4b x 100	1900	■	■	■	■
	45 °C	4b x 100	1825	■	■	■	■
	50 °C	4b x 100	1750	■	■	■	■
IP ≥ 31		T° around the switchboard					
 Edgewise bars	20 °C	3b x 100	2000	4b x 100	2500	4b x 125	3200
	25 °C	3b x 100	2000	4b x 100	2500	4b x 125	3140
	30 °C	3b x 100	2000	4b x 100	2500	4b x 125	3020
	35 °C	3b x 100	2000	4b x 100	2400	4b x 125	2900
	40 °C	3b x 100	1900	4b x 100	2320	4b x 125	2820
	45 °C	3b x 100	1800	3b x 125	2250	4b x 125	2750
	50 °C	■	■	■	■	■	■
 Flat bars	20 °C	4b x 100	2000	■	■	■	■
	25 °C	4b x 100	2000	■	■	■	■
	30 °C	5b x 100	1900	■	■	■	■
	35 °C	5b x 100	1825	■	■	■	■
	40 °C	5b x 100	1900	■	■	■	■
	45 °C	5b x 100	1750	■	■	■	■
	50 °C	■	■	■	■	■	■

■ connection not possible

Sizing of device connections

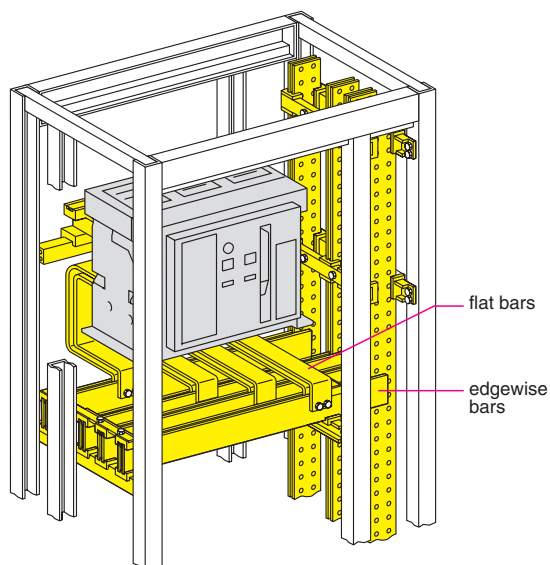
Masterpact circuit breakers

M08 to M16 fixed

Masterpact circuit breakers M08/M16 fixed

Depending on the way it is laid, a connection may be considered edgewise or flat.
See examples opposite

5 mm thick copper bars.



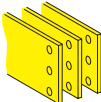
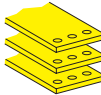
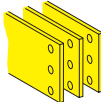
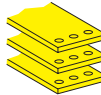
		M08		M10		M12		M16	
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)
IP ≤ 30		T° around the switchboard							
Edgewise bars	20 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 80	1600
	25 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	4b x 80	1600
	30 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 80	1600
	35 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 100	1600
	40 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	2b x 100	1600
	45 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	2b x 100	1600
	50 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	2b x 125	1600
Flat bars	20 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	25 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	30 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	35 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	4b x 80	1600
	40 °C	2b x 63	800	2b x 63	1000	2b x 80	1250	4b x 80	1600
	45 °C	2b x 63	800	2b x 63	1000	2b x 80	1250	4b x 80	1600
	50 °C	2b x 63	800	2b x 63	1000	2b x 80	1250	4b x 80	1600
IP ≥ 31		T° around the switchboard							
Edgewise bars	20 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	2b x 100	1600
	25 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	2b x 100	1600
	30 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	35 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	40 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
	45 °C	2b x 50	800	2b x 80	1000	2b x 80	1250	3b x 80	1600
	50 °C	■	■	■	■	■	■	■	■
Flat bars	20 °C	2b x 50	800	2b x 80	1000	3b x 63	1250	4b x 80	1600
	25 °C	2b x 63	800	2b x 80	1000	3b x 63	1250	4b x 80	1600
	30 °C	2b x 63	800	2b x 80	1000	3b x 63	1250	4b x 80	1600
	35 °C	2b x 63	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
	40 °C	2b x 80	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
	45 °C	2b x 80	800	2b x 63	1000	3b x 80	1250	■	■
	50 °C	■	■	■	■	■	■	■	■

■ connection not possible

The above values are valid for installation in a Prisma switchboard

Masterpact circuit breakers M20/M32 fixed

5 mm thick copper bars.

		M20		M25		M32		
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	
IP ≤ 30	T° around the switchboard							
	Edgewise bars	20 °C	2b x 100	2000	3b x 100	2500	4b x 125	3200
		25 °C	2b x 125	2000	3b x 100	2500	4b x 125	3200
		30 °C	2b x 125	2000	3b x 100	2500	4b x 125	3200
		35 °C	2b x 125	2000	4b x 100	2500	4b x 125	3150
		40 °C	3b x 100	2000	4b x 100	2500	4b x 125	3100
		45 °C	3b x 100	2000	4b x 100	2500	4b x 125	3050
		50 °C	3b x 100	2000	4b x 100	2500	■	■
	Flat bars	20 °C	3b x 100	2000	■	■	■	■
		25 °C	3b x 100	2000	■	■	■	■
		30 °C	4b x 100	2000	■	■	■	■
		35 °C	4b x 100	2000	■	■	■	■
		40 °C	4b x 100	2000	■	■	■	■
		45 °C	4b x 100	2000	■	■	■	■
		50 °C	■	■	■	■	■	■
IP ≥ 31	T° around the switchboard							
	Edgewise bars	20 °C	2b x 125	2000	4b x 100	2500	4b x 125	3200
		25 °C	2b x 125	2000	4b x 100	2500	4b x 125	3200
		30 °C	3b x 100	2000	4b x 100	2500	4b x 125	3150
		35 °C	3b x 100	2000	3b x 125	2500	4b x 125	3100
		40 °C	3b x 100	2000	3b x 125	2500	4b x 125	3050
		45 °C	3b x 100	2000	4b x 100	2500	■	■
		50 °C	■	■	■	■	■	■
	Flat bars	20 °C	4b x 100	2000	■	■	■	■
		25 °C	4b x 100	2000	■	■	■	■
		30 °C	5b x 100	2000	■	■	■	■
		35 °C	5b x 100	2000	■	■	■	■
		40 °C	5b x 100	2000	■	■	■	■
		45 °C	5b x 100	2000	■	■	■	■
		50 °C	■	■	■	■	■	■

■ connection not possible

Sizing of device connections

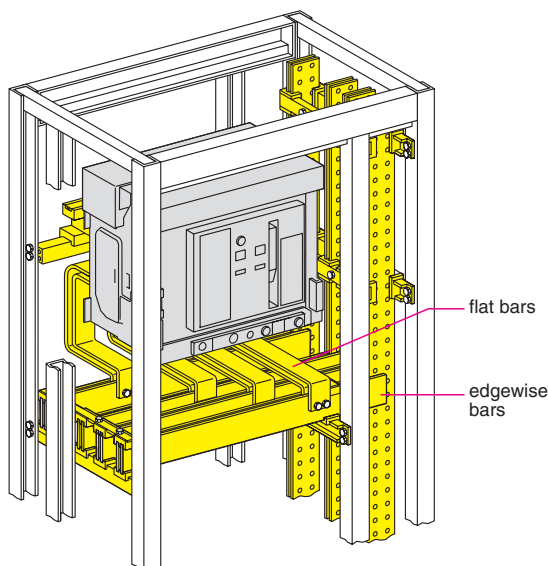
Masterpact circuit breakers

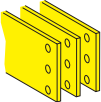
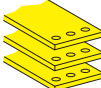
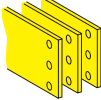
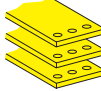
M08 to M16 drawout

Masterpact circuit breakers M08/M16 drawout

Depending on the way it is laid, a connection may be considered edgewise or flat.
See examples opposite

5 mm thick copper bars.



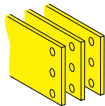
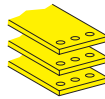
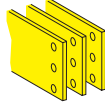
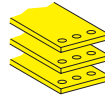
		M08		M10		M12		M16		
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)	
IP ≤ 30	T° around the switchboard									
	Edgewise bars	20 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 80	1600
		25 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 80	1600
		30 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	2b x 80	1600
		35 °C	2b x 50	800	2b x 50	1000	2b x 63	1250	3b x 63	1600
		40 °C	2b x 50	800	2b x 50	1000	3b x 50	1250	3b x 63	1550
		45 °C	2b x 50	800	2b x 63	1000	3b x 50	1250	3b x 80	1520
		50 °C	2b x 50	800	2b x 63	1000	3b x 50	1250	3b x 80	1480
	Flat bars	20 °C	2b x 50	800	3b x 50	1000	2b x 80	1250	3b x 80	1600
		25 °C	2b x 50	800	3b x 50	1000	2b x 80	1250	3b x 80	1600
		30 °C	2b x 50	800	3b x 50	1000	2b x 80	1250	3b x 80	1600
		35 °C	2b x 50	800	3b x 50	1000	3b x 80	1250	3b x 80	1600
		40 °C	3b x 50	800	3b x 50	1000	3b x 80	1250	4b x 80	1600
		45 °C	3b x 50	800	3b x 50	1000	3b x 80	1250	4b x 80	1500
		50 °C	3b x 50	800	3b x 50	1000	3b x 80	1250	4b x 80	1400
IP ≥ 31	T° around the switchboard									
	Edgewise bars	20 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	3b x 80	1600
		25 °C	2b x 50	800	2b x 50	1000	2b x 80	1250	3b x 80	1600
		30 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1600
		35 °C	2b x 50	800	2b x 63	1000	2b x 80	1250	3b x 80	1550
		40 °C	2b x 50	800	2b x 63	1000	3b x 80	1250	3b x 80	1520
		45 °C	2b x 50	800	2b x 63	1000	3b x 80	1250	3b x 80	1480
		50 °C	■	■	■	■	■	■	■	■
	Flat bars	20 °C	2b x 63	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
		25 °C	2b x 63	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
		30 °C	2b x 63	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
		35 °C	3b x 63	800	2b x 80	1000	3b x 80	1250	4b x 80	1600
		40 °C	2b x 80	800	2b x 80	1000	3b x 80	1250	4b x 80	1500
		45 °C	2b x 80	800	3b x 80	1000	3b x 80	1250	4b x 80	1400
		50 °C	■	■	■	■	■	■	■	■

■ connection not possible

The above values are valid for installation in a Prisma switchboard

Masterpact circuit breakers M20/M32 drawout

5 mm thick copper bars.

		M20		M25		M32	
		nb of bars per phase	I (A)	nb of bars per phase	I (A)	nb of bars per phase	I (A)
IP ≤ 30	T° around the switchboard						
 Edgewise bars	20 °C	2b x 125	2000	3b x 100	2500	3b x 125	3200
	25 °C	2b x 125	2000	3b x 100	2500	3b x 125	3200
	30 °C	2b x 125	2000	3b x 100	2500	3b x 125	3140
	35 °C	2b x 125	2000	4b x 100	2500	3b x 125	3020
	40 °C	3b x 100	2000	4b x 100	2500	3b x 125	2900
	45 °C	3b x 100	1900	4b x 100	2320	3b x 125	2820
	50 °C	3b x 100	1800	4b x 100	2250	3b x 125	2750
 Flat bars	20 °C	3b x 100	2000	■	■	■	■
	25 °C	3b x 100	2000	■	■	■	■
	30 °C	3b x 100	2000	■	■	■	■
	35 °C	4b x 100	2000	■	■	■	■
	40 °C	4b x 100	1900	■	■	■	■
	45 °C	4b x 100	1825	■	■	■	■
	50 °C	4b x 100	1750	■	■	■	■
IP ≥ 31	T° around the switchboard						
 Edgewise bars	20 °C	3b x 100	2000	4b x 100	2500	4b x 125	3200
	25 °C	3b x 100	2000	4b x 100	2500	4b x 125	3140
	30 °C	3b x 100	2000	4b x 100	2500	4b x 125	3020
	35 °C	3b x 100	2000	4b x 100	2400	4b x 125	2900
	40 °C	3b x 100	1900	4b x 100	2320	4b x 125	2820
	45 °C	3b x 100	1800	3b x 125	2250	4b x 125	2750
	50 °C	■	■	■	■	■	■
 Flat bars	20 °C	4b x 100	2000	■	■	■	■
	25 °C	4b x 100	2000	■	■	■	■
	30 °C	5b x 100	1900	■	■	■	■
	35 °C	5b x 100	1825	■	■	■	■
	40 °C	5b x 100	1900	■	■	■	■
	45 °C	5b x 100	1750	■	■	■	■
	50 °C	■	■	■	■	■	■

■ connection not possible

Connection by insulated flexible copper bars

Device connections

Insulated flexible copper bars

To obtain an installation complying with IEC 60439-1

Always use the values given below. They have been validated for an installation comprising devices installed in a Prisma enclosure.

The parameters determining the cross-section of a flexible copper bars are:

■ the environment in which it is installed:

- ☐ location in the enclosure
- ☐ dimensions of the other conductors of the circuit
- ☐ ambient temperature around the enclosure

■ the characteristics of the connected device:

- ☐ power dissipated by the device (heat loss)
- ☐ temperature-rise caused by the device

Only an electrical equipment manufacturer knows both:

- the characteristics of the devices to be installed
- the configuration of the devices inside the enclosure.

In this way, an equipment manufacturer can indicate the cross-sections of flexible copper bars for a permissible current.

Technical characteristics:

- insulation thickness: between 1.5 mm and 2.5 mm
- rated insulation voltage: $U_i = 1000 \text{ V}$
- rated impulse withstand voltage = $U_{imp} = 12 \text{ kV}$
- maximum temperature of copper bars: 105°C
- maximum temperature of copper bars in continuous duty: 80°C .

Circuit breakers, switch-disconnectors and fuses

- in a Prisma P or PH cubicle
- temperature inside the switchboard: 60°C

Device	IN125	IN160	IN250	IN400	IN630	NS100 ⁽¹⁾	NS160 ⁽¹⁾
S (mm)	20 x 2	20 x 2	20 x 3	32 x 5	32 x 8	20 x 2	20 x 2
Device	NS250 ⁽¹⁾	NS400 ⁽¹⁾	NS630	Fu250	Fu400	Fu630	
S (mm)	20 x 3	32 x 5	32 x 8	24 x 5	32 x 5	32 x 8	

(1) The values for circuit breakers are applicable for contactors with the same ratings

Disconnectors, terminal blocks, connections, busbar/busbar

- in a Prisma P or PH cubicle
- temperature inside the switchboard: 60°C

I maxi (60 °C)	200 A	250 A	400 A	480 A	520 A	580 A	660 A
S (mm)	20 x 2	20 x 3	24 x 5	24 x 6	32 x 5	24 x 8	32 x 8

Cables

Practical rules:

Schneider Electric recommends cabling according to the circuit breaker **rating**. The cable cross-section must be chosen depending on:

- the current to be carried
- the ambient temperature around the conductors
- the degree of protection of the switchboard.

The following tables take into account the installation conditions related to the type of device (permissible temperatures near the connection terminals, etc.). They ensure consistency with the temperature derating values of the installed devices.

Enclosures: the volume, power and connection lengths are low. Always choose the values in the "bundled" column as a function of the IP.

Connection of circuit-breaker by cables

- in a Prisma P or PH cubicle
- temperature inside the switchboard: 60°C
- copper cables.

Device	NS100	NS160	NS250	NS400/NS630
Section (mm²)	25	50	95	straps or bars

Permissible current with cables secured individually

Current (A)

IP ≤ 30	16	25	32	40	63	90	110	135	180	230	275
IP ≥ 31	14	25	29	39	55	77	100	125	150	190	230

Cable

Section (mm²)	1.5	2.5	4	6	10	16	25	35	50	70	95
---------------	-----	-----	---	---	----	----	----	----	----	----	----

Permissible current with cables secured in bundles

Current (A)

IP ≤ 30	14	22	28	36	55	80	100	125
IP ≥ 31	12	20	24	33	50	70	93	120

Cable

Section (mm²)	1.5	2.5	4	6	10	16	25	35
---------------	-----	-----	---	---	----	----	----	----

Connection of other devices by cables

- in a Prisma P or PH cubicle
- temperature inside the switchboard: 60°C
- copper cables.

Permissible current with cables secured individually

Current (A)

IP ≤ 30	13	23	28	36	55	80	100	120	165	210	250
IP ≥ 31	12	21	26	35	50	70	90	115	135	176	210

Cable

Section (mm²)	1.5	2.5	4	6	10	16	25	35	50	70	95
---------------	-----	-----	---	---	----	----	----	----	----	----	----

Permissible current with cables secured in bundles

Current (A)

IP ≤ 30	12	20	25	32	50	72	90	110
IP ≥ 31	10	19	22	30	46	63	84	103

Cables

Section (mm²)	1.5	2.5	4	6	10	16	25	35
---------------	-----	-----	---	---	----	----	----	----

Cross-section of protective
conductor PE

Optimised method:

Use the calculation formula given by standard IEC 60439-1:

$$S_{PE} = \frac{\sqrt{I^2 t}}{k}$$

- S_{PE} : cross-sectional area of PE in mm²
- I^2 : value of the phase-to-earth fault current = 60% of the value of the phase-to-phase fault current (standard IEC 60438-1 §8.2.4.2).
- t : duration of the fault current in seconds
- k : a factor depending on the conductor material. $k = 143$ for a PVC-insulated copper PE conductor.

Simplified method (based on the above formula):

- Use the table below.
- Depending on the I_{sc} of the device, determine the cross-sectional area of the PE conductor.

Cross-sectional area of the PE conductor (mm)	Masterpact NWH3 with a 0.5 second time delay	Other Schneider Electric device
$I_{sc} \leq 40 \text{ kA}$	1 bar 25 x 5	1 bar 25 x 5
$40 < I_{sc} < 50 \text{ kA}$	1 bar 50 x 5	1 bar 25 x 5
$I_{sc} \geq 50 \text{ kA}$	1 bar 50 x 5	1 bar 50 x 5

Schneider Electric prefabricated solutions:

- PE conductor:
- use the PE conductor see cat. No 07428 (up to an I_{sc} of 85 ka).

Standard IEC 60364-3 lists and codes a large number of external influences to which an electrical installation may be subjected: presence of water, presence of solid bodies, risk of impacts, vibrations, presence of corrosive substances. These influences are exerted with an intensity varying according to installation conditions: the presence of water may be simply a few drops falling...or complete immersion.

Degree of protection IP code

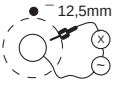
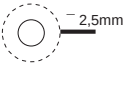
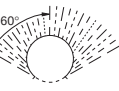
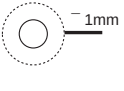
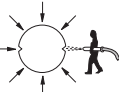
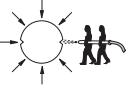
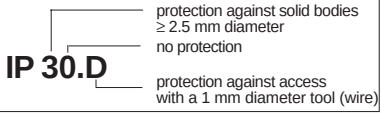
International standard IEC 60529 (2nd edition 1989-11), European standard EN 60529 (October 1992), French standard NF C 20-010 (1st edition October 1986) and German standards DIN 40050 (July 1980) and DIN-VDE 0470 (part 1) all define in a similar manner an IP code to indicate the degree of protection provided by an electrical enclosure against access to hazardous parts and against the penetration of solid bodies or liquids.

These standards do not cover protection against explosion hazards or conditions such as humidity, corrosive vapours, mould or vermin.

The IP code is made up of 2 digits to which a letter may be added when the actual protection against access to hazardous parts is better than that indicated by the first digit.

The first digit characterises protection provided by the enclosure against penetration by solid bodies.

The second digit characterises protection against the ingress of liquids with harmful effects.

1st digit Protection against solid bodies	2nd digit Protection against liquids
1  protection against solid bodies ≥ 50 mm diam.	1  protection against vertical dripping (condensation)
2  protection against solid bodies ≥ 12.5 mm diam.	2  protection against dripping at an angle of up to 15° with respect to vertical
3  protection against solid bodies ≥ 2.5 mm diam.	3  protection against water sprayed at an angle up to 60° with respect to vertical
4  protection against solid bodies ≥ 1 mm diam.	4  protection against splashing from all directions
5  dust-protected (no harmful deposit)	5  protection against water jets projected from any direction
6  dust-tight (total protection against dust)	6  protection against powerful water jets projected from any direction
Example  IP 30.D — protection against solid bodies ≥ 2.5 mm diameter — no protection — protection against access with a 1 mm diameter tool (wire)	7  protection against temporary immersion
	8  protection against continuous immersion

Remarks on degree of protection IP code

- the degree of protection IP must always be read and understood digit by digit and not as a whole.
For example, an IP31 enclosure is suitable for an environment requiring a minimum degree of protection IP21. However, an IP30 enclosure is not suitable.
- the degrees of protection indicated in this catalogue are valid for the enclosures as they are presented. However, for this degree of protection to be maintained, devices must be mounted and the installation must be implemented in accordance with standard working practices.

Additional letter (optional)

Protection of persons against access to hazardous parts.

letter	description
A	protection against access with the back of the hand
B	protection against access with a finger
C	protection against access with a 2.5 mm diam. tool
D	protection against access with a 1 mm diam. tool (wire)

It is used only if effective protection of persons is greater than that indicated by the 1st letter of the IP.

When only protection of persons needs to be specified, the two characteristic letters of the IP are replaced with X.

Example: IPXXB.

Degree of protection against mechanical impact: IK code

Draft European standard EN50102 now defines an IK code for the protection against mechanical impact.

The following table indicates the equivalencies between the 3rd digit of the French IP code of NF C 20-010 (1986) standard and the IK code.

impact energy (Joules)	3rd digit (old description)	IK code as defined by EN 50-102 (new description)
0.00	0	00
0.15		01
0.2	1	02
0.35		03
0.375	2	
0.5	3	04
0.7		05
1		06
2	5	07
5		08
6	7	
10		09
20	9	10

How to use the table

1 Opposite the relevant premises, read the minimum degree of protection required by standard IEC 60364-3 and the UTE C 15-103 guide dated November 1997.

2 On the same line, the □ and ■ signs indicate the enclosures providing the required degree of protection.

3 If several degrees of protection are possible (refer to the standard for more details) and the □ and ■ signs are shown (for example, 24-/25■), the enclosures that correspond to the higher degree of protection (■) are suitable for the lower degree of protection (□).

Example: selection of an enclosure for a battery room. Minimum degree of protection in accordance with standard IEC 60364-3 as stipulated in the tables below: IP23. The Prisma G enclosure with a door (plain or transparent) and canopy + gasket kit provides an IP43 degree of protection and is therefore perfectly suitable for this application.

Remarks

The degree of protection only takes into account protection against penetration by solid bodies and water.

In the case of specific risks, the IP rating is not sufficient in itself and you must consult the relevant standard (e.g. IEC 60364-3).

For the first figure (protection against solid bodies) the value "2" has been selected as a minimum, in such a way as to take into account protection against direct contacts.

As per standard IEC 60364-3 and the UTE C 15-103 guide dated November 1997

As per standard IEC 60364-3 and the UTE C 15-103 guide dated November 1997			enclosures and cubicles								
			Prisma P cubicle (with front plate support frame or door)	Prisma G enclosure (with front plates) Prisma GX cubicle	Prisma P cubicle (with front plate support uprights + door) Prisma P cubicle (with plain or transparent door)	Prisma G enclosure (with plain or transparent door) Prisma GX cubicle	Prisma G enclosure Prisma GX cubicle (with plain or transparent door and canopy + gasket kit)	Prisma P cubicle (with plain or transparent door + gland plate + gasket kit) UT enclosure	Prisma GE and GK enclosure Prisma PH cubicles	US enclosures	UP enclosures
mini required degree of protection IP			20	30	30	40	43	54	55	65	55
mini required degree of protection IK			08	07	08	08	08	08	10	10	10
domestic or comparable premises or locations			IP	IK							
bathrooms (see washrooms)											
laundries			23	02				■	■	■	■
cellars			21	02-/07■				■	■	■	■
bedrooms			20	02	■	■	■	■	■	■	■
courtyards			24-/25■	02					□	■	■
kitchens			21	02				■	■	■	■
shower rooms (see washrooms)											
showers (row of)			25	02						■	■
attics (roof space)			20	02	■	■	■	■	■	■	■
gardens			24-/25■	02				□	■	■	■
latrines			21	02				■	■	■	■
dustbin sheds			25	02-/07■						■	■
ironing rooms			21	02				■	■	■	■
washrooms											
safety envelope volume			27	02	consult us						
protection volume			23	02				■	■	■	■
other locations			21	02				■	■	■	■
lounges, living rooms, etc.			20	02	■	■	■	■	■	■	■
drying rooms			21	02				■	■	■	■
basements			21	02-/07■				■	■	■	■
WCs			21	02				■	■	■	■
verandas			21	02				■	■	■	■
crawl space			23	02-/07■				■	■	■	■
technical premises											
battery rooms			23	02-/07■				■	■	■	■
cold storage rooms			33	02-/07■				■	■	■	■
electrical rooms			20	07	■	■	■	■	■	■	■
control rooms			20	04	■	■	■	■	■	■	■
workshops			21	07-/08■							
			23	07-/08■				■	■	■	■
laboratories			21	02-/07■							
			31	02-/07■				■	■	■	■
machine rooms			31	07-/08■				■	■	■	■
air conditioning washers			24	07					■	■	■
garages (used exclusively for parking vehicles) of an area not exceeding 100 m ²			21	07				■	■	■	■
water pressurisers			23	07-/08■				■	■	■	■

Selection of enclosures according to the premises

As per standard IEC 60364-3 and
the UTE C 15-103 guide dated November 1997

As per standard IEC 60364-3 and the UTE C 15-103 guide dated November 1997				enclosures and cubicles								
				Prisma P cubicle (with front plate support frame or door)	Prisma G enclosure (with front plates) Prisma GX cubicle	Prisma P cubicle (with front plate support uprights + door) Prisma P cubicle (with plain or transparent door)	Prisma G enclosure (with plain or transparent door) Prisma GX cubicle	Prisma G enclosure Prisma GX cubicle (with plain or transparent door and canopy + gasket kit)	Prisma P cubicle (with plain or transparent door + gland plate + gasket kit) UT enclosure	Prisma GE and GK enclosure Prisma GR and PH cubicles	US enclosures	UP enclosures
		mini required degree of protection IP	20	30	30	40	43	54	55	65	55	
		mini required degree of protection IK	08	07	08	08	08	08	10	10	10	
boiler houses and adjoining premises (power in excess of 70 kW)												
boiler rooms	coal fuel	IP 51-/61■	07-/08■				■	■	■		■	
	other fuel	21	07-/08■				■	■	■	■	■	
	electrical	21	07-/08■				■	■	■	■	■	
fuel storage areas	coal	50-/60	08					■	■	■	■	
	oil	20	07-/08■	■	■	■	■	■	■	■	■	
	liquefied gas	20	07-/08■	■	■	■	■	■	■	■	■	
slag tips		50-/60■	08				■	■	■		■	
pump rooms		23	07-/08■				■	■	■	■	■	
pressure reduction rooms (gas)		20	07-/08■	■	■	■	■	■	■	■	■	
expansion vessel rooms		21	02					■	■	■	■	
garages and car parks of an area exceeding 100 m²												
parking lots		21	07-/08■				■	■	■	■	■	
carwash areas (inside premises)		25	07						■	■	■	
safety areas	indoors	21	07				■	■	■	■	■	
	outdoors	24	07						■	■	■	
lubrication areas		23	08				■	■	■	■	■	
battery recharging areas	traction batteries	23	07				■	■	■	■	■	
	other	23	07				■	■	■	■	■	
workshops		21	08				■	■	■	■	■	
sanitary facilities for communal usage												
rooms containing individual washbasins		21	07				■	■	■	■	■	
WCs		21	07				■	■	■	■	■	
rooms containing urinals		21	07				■	■	■	■	■	
rooms containing communal washbasins		23	07				■	■	■	■	■	
WCs (squat closet)		23	07				■	■	■	■	■	
shower rooms with individual cabins		23	07				■	■	■	■	■	
communal shower rooms		25	07						■	■	■	
communal laundry rooms		24	07					■	■	■	■	
buildings for communal usage												
offices		20	02	■	■	■	■	■	■	■	■	
libraries		20	02	■	■	■	■	■	■	■	■	
archives		20	02	■	■	■	■	■	■	■	■	
rooms containing punch-card machines, statistics and accounting equipment		20	07	■	■	■	■	■	■	■	■	
design offices		20	02	■	■	■	■	■	■	■	■	
rooms containing reprographic machines		20	07	■	■	■	■	■	■	■	■	
rooms containing the main telephone switchboard for an office building		20	07	■	■	■	■	■	■	■	■	
rooms containing counters, sorting office		20	07	■	■	■	■	■	■	■	■	
teaching establishments, excluding laboratories		20-/21■	07	■	■	■	■	■	■	■	■	
refectories in restaurants or canteens		21	07				■	■	■	■	■	
large kitchens		35	07						■	■	■	
communal bedrooms or dormitories		20	07	■	■	■	■	■	■	■	■	
sports rooms		21	07-/08■				■	■		■	■	
leisure or vacation centres		21	07				■	■	■	■	■	
barracks		21	07				■	■	■	■	■	
meeting rooms		20	07	■	■	■	■	■	■	■	■	
waiting rooms, lounges, halls		20	07	■	■	■	■	■	■	■	■	
medical consulting rooms, not fitted with specific equipment		20	02-/07■	■	■	■	■	■	■	■	■	
demonstration or exhibition rooms		20	07	■	■	■	■	■	■	■	■	

As per standard IEC 60364-3 and
the UTE C 15-103 guide dated November 1997

As per standard IEC 60364-3 and the UTE C 15-103 guide dated November 1997			enclosures and cubicles							
			Prisma P cubicle (with front plate support frame or door)	Prisma G enclosure (with front plates) Prisma GX cubicle	Prisma P cubicle (with front plate support uprights + door) Prisma P cubicle (with plain or transparent door)	Prisma G enclosure (with plain or transparent door) Prisma GX cubicle	Prisma G enclosure Prisma GX cubicle (with plain or transparent door and canopy + gasket kit)	Prisma P cubicle (with plain or transparent door + gland plate + gasket kit) UT enclosure	Prisma GE and GK enclosure Prisma PH cubicles UP enclosure	US enclosures
mini required degree of protection IP		20	30	30	40	43	54	55	65	
mini required degree of protection IK		08	07	08	08	08	08	10	10	
farm premises										
or locations										
	IP	IK								
alcohol (storage)	23	07					■	■	■	
closed cattle sheds	35	07						■	■	
threshing floors	50-3/60■	07					□	□	■	
distilling cellars	23	07					■	■	■	
vat rooms (wine)	23	07					■	■	■	
courtyards	35	07						■	■	
troughs	23	07					■	■	■	
stables	45	07						■	■	
fertiliser (storage)	50-3/60■	07					□	□	■	
stables	45	07						■	■	
manure heaps	24	07					■	■	■	
haystacks, forage (storage)	50-3/60■	07					□	□	■	
granaries, barns	50-3/60■	07					□	□	■	
greenhouses	23	07					■	■	■	
milking rooms	35	07						■	■	
pig sties	35	07						■	■	
chicken houses	45	07						■	■	
miscellaneous installations										
camping and caravan sites	34	07					UT54/UD	■	■	
construction sites	44	08						■	■	
streets, courtyards, gardens and other outdoor facilities	34/35■	07					UT54/UD	■	■	
fair facilities	33	08					■	UT54/UD	■	
swimming pools	37	02	consult us							
	protection volume	35	02						■	
	corridors and barefoot areas	35	02						■	
saunas	34	02					UT54/UD	■	■	
industrial facilities										
slaughter houses	55-3/65■	08						□	■	
acid (manufacture and storage)	33	07					■	■	■	
alcohol (manufacture and storage)	33	07					■	■	■	
aluminium (manufacture and storage)	51-3/53-3 61■/63■	08						□	■	
livestock (raising, fattening and sale)	45	07						■	■	
industrial laundry	23-3/24■	07					□	■	■	
wood (processing)	50-3/60■	08						□	■	
butcher's shops	24-3/25■	07					□	■	■	
bakeries	50-3/60■	07						□	■	
breweries	24	07						■	■	
brickworks	53-3/54-3 63■/64■	09					□	□	■	
rubber (production and processing)	54-3/64■	07						□	■	
ammunition factories	53-3/63■	08					□	□	■	
carton board (production)	33	07					■	■	■	
quarries	55-3/65■	08							□	
celluloid (manufacture of objects)	30	08			■	■	■	■	■	
coal (depots)	53-3/63■	08						□	■	
boiler-making works	30	08			■	■	■	■	■	
rag (storage)	30	08	■	■	■	■	■	■	■	
chrome-plating	33	07						■	■	

Selection of enclosures according to the premises

As per standard IEC 60364-3 and
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			enclosures and cubicles							
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mini required degree of protection IP			20	30	30	40	43	54	55	65
mini required degree of protection IK			08	07	08	08	08	08	10	10
industrial establishments (continued)										
cement works	IP 50-60	IK 08								
coking plant	53-63.7	08								
adhesives (production)	33	07								
liquid fuels (storage)	31-33	08								
fats (processing)	51-61	07								
leather (tanning and storage)	31	08								
paint stripping	54-64	08								
detergents (manufacture)	53-63	07								
distilleries	33	07								
électrolysis	33	08								
fertilisers (manufacture and storage)	53-63	07								
explosives (manufacture and storage)	55-65	08								
iron (production and processing)	51-61	08								
spinning mills	50-60	07								
refrigerators (storage)	33	07								
cheese factories	25	07								
printworks	20	07								
dairies	25	07								
public wash-houses	25	07								
inflammable liquids (storage and workshops where they are used)	21	08								
machine rooms	20	08								
plastics (production)	51-61	08								
metals (processing)	31-33	08								
combustion engines (testing of)	30	08								
household waste (processing)	53-54 63-64	07								
paper (production)	33-34	07								
paper (storage)	31	07								
perfume (production and storage)	31	07								
paint (production and storage)	33	08								
plaster (processing and storage)	50-60	07								
pig farms	25	07								
chemicals (production)	30-50-60	08								
oil refineries	34	07								
cured meat factories	33	07								
soap (production)	31	07								
metal works	30	08								
caustic soda (processing and storage)	33	07								
sulphur (processing)	51-61	07								
spirits (storage)	33	07								
sugar mills	55-65	07								
dye works	35	07								
textile and fabric (production)	51-61	08								
glass works	33	08								

As per standard IEC 60364-3 and
the UTE C 15-103 guide dated November 1997

				enclosures and cubicles							
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mini required degree of protection IP				20	30	30	40	43	54	55	65
mini required degree of protection IK				08	07	08	08	08	08	10	10
buildings open to the general public											
L	lecture halls	halls	20	02-07■	■	■	■	■	■	■	■
	meeting rooms	stage areas	20	08	■	■	■	■	■	■	■
	auditoriums	projection facilities	20	02	■	■	■	■	■	■	■
	and halls	adjoining premises (dressing rooms, workshops, store rooms)	20	08	■	■	■	■	■	■	■
M	retail premises, shopping malls		20	08	■	■	■	■	■	■	■
	areas for storage, reception, packing, display		20	08	■	■	■	■	■	■	■
N	restaurants and cafes		20	02	■	■	■	■	■	■	■
	large kitchens (see UTE 15-201)										
O	hotels and boarding houses		20	02	■	■	■	■	■	■	■
P	dance halls and gaming parlours		20	07	■	■	■	■	■	■	■
R	teaching establishments, holiday camps		20	02	■	■	■	■	■	■	■
S	libraries and documentation centres		20	02	■	■	■	■	■	■	■
T	exhibitions	halls and rooms	20	07	■	■	■	■	■	■	■
	areas for storage, reception, packing, workshops, garages		20	08	■	■	■	■	■	■	■
U	healthcare establishments, operating theatres		20	02	■	■	■	■	■	■	■
			20	07	■	■	■	■	■	■	■
V	places of worship, organ bellows, bell towers		20	02	■	■	■	■	■	■	■
			23	02	■	■	■	■	■	■	■
W	administrative premises, banks		20	02	■	■	■	■	■	■	■
X	indoor sports facilities		21	07-08■				■	■	■	■
Y	museums		20	02	■	■	■	■	■	■	■
PA	open air facilities		25	08						■	■
CT	marquees and tents		44	08					■	■	■
SG	inflatable structures		44	08					■	■	■
PS	covered parking lots		21	07-10■				■	■	■	■
commercial premises and adjoining areas											
	gunsmiths (storage area, workshop)		31-33■	08				■	■	■	■
	laundries (wash room)		24	07					■	■	■
	butchers	shop	24	07					■	■	■
		refrigerator	23.5					■	■	■	■
	bakers, cake shops (kitchens)		50-60■	07					□	□	■
	coffee roasters		21	02				■	■	■	■
	coal, wood, oil		20	08	■	■	■	■	■	■	■
	delicatessen (production)		24	07					■	■	■
	sweets (production)		20	02	■	■	■	■	■	■	■
	shoe repair shops		20	02	■	■	■	■	■	■	■
	dairies		24	02					■	■	■
	hardware stores (storage areas for chemicals and paint)		33	07				■	■	■	■
	wood workers		50-60■	07					□	□	■
	art galleries		20	07	■	■	■	■	■	■	■
	florists		24	02					■	■	■
	furriers		20	02	■	■	■	■	■	■	■
	fruit and vegetable merchants		24	07					■	■	■
	grain shops		50-60■	07					□	□	■
	bookshops, stationers		20	02	■	■	■	■	■	■	■

Selection of enclosures according to the premises

As per standard IEC 60364-3 and
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			enclosures and cubicles							
			Prisma P cubicle (with front plate support frame or door)	Prisma G enclosure (with front plates) Prisma GX cubicle	Prisma P cubicle (with front plate support uprights + door) Prisma P cubicle (with plain or transparent door)	Prisma G enclosure (with plain or transparent door) Prisma GX cubicle	Prisma G enclosure Prisma GX cubicle (with plain or transparent door and canopy + gasket kit)	Prisma P cubicle (with plain or transparent door + gland plate + gasket kit) UT enclosure	Prisma GE and GK enclosure Prisma PH cubicles UP enclosure	US enclosures
mini required degree of protection IP			20	30	30	40	43	54	55	65
mini required degree of protection IK			08	07	08	08	08	08	10	10
commercial premises and adjoining areas (continued)										
motorcycle and bicycle repairs and accessories	20	09	■		■	■	■	■	■	■
messenger services	20	09	■		■	■	■	■	■	■
furniture shops (antiques, second-hand)	20	07	■	■	■	■	■	■	■	■
glass and mirror merchants (workshop)	20	07	■	■	■	■	■	■	■	■
wallpaper shop (storage area)	21	07					■	■	■	■
cosmetics shop (storage area)	31	02					■	■	■	■
chemists (storage area)	20	02	■	■	■	■	■	■	■	■
photographers (dark room)	23	02					■	■	■	■
plumbers (storage area)	20	07	■	■	■	■	■	■	■	■
fishmongers	25	07							■	■
dry cleaners	23	02					■	■	■	■
hardware store (without paint, chemicals, etc.)	20	07	■	■	■	■	■	■	■	■
locksmiths	20	07-08■	■	□	■	■	■	■	■	■
vintners, spirits (cellars and storage areas)	23	07					■	■	■	■
interior decorator (carding)	50-60■	07						□	□	■
tailors, clothing retailers (storage area)	20	02	■	■	■	■	■	■	■	■
pet care	35	07							■	■

The sheet metal used for Merlin Gerin enclosures and cubicles receives a coating of a thermosetting, polyester-resin-modified epoxy powder. This provides excellent finish and corrosion protection. The characteristics of this coating are much better than those of traditional epoxy powders:

- improved colour stability
- wider operating temperature range.

Mechanical properties

test conditions:

**samples made of 0.8 mm thick sheet steel,
hot-cleaned and phosphatized**

adhesion (cross-hatch and pull-off)	class 0	(ISO 2409)
Erichsen indentation (1)	> 8 mm	(ISO 1520)
impact strength (2)	> 1 kg/40 cm	(ISO 6272)
mandrel bending test (3)	3 mm	(ISO 1519)
cone bending test (4)	< 15 mm	(ISO 6860)
Persoz hardness	300-320 sec.	(ISO 1522)

(1) No cracks for a stamping depth of 6 mm; no detachment for a stamping depth of 8 mm.

(2) No cracking of the paint film after dropping a weight of 1 kg on the test piece from a height of 40 cm.

(3) No detachment of paint after bending the test piece around a 5 mm diameter axis.

(4) Film cracks over a length of 15 mm maximum.

Chemical properties

Tests carried out at ambient temperature on phosphatized samples coated with a 150 to 200 µ film.

test duration (months)			2	4	6	8	10	12
acids	concentration							
	acetic	20 %						
	sulphuric	30 %						
	nitric	30 %						
	phosphoric	30 %						
	hydrochloric	30 %						
	lactic	10 %						
	citric	10 %						
bases	soda	10 %						
	ammonia	10 %						
water	distilled water							
	seawater							
	tap water							
	diluted bleach							
solvent	petrol							
	high alcohols							
	aliphatics							
	aromatics							
	ketones, esters							
	tri-perchloroethylene							

film intact

film damaged (blisters, yellowing, loss of shine)

Corrosion resistance

salt mist: ISO 7253

720 hours for enclosures made of 1 mm thick sheet metal, zinc-plated after phosphatizing:

- degree of rusting Ri0 (ISO 4628/3)
- blistering 0 (ISO 4628/2).

Characteristics

The UP and US enclosures are particularly suitable for highly corrosive environments (coastlines, chemical industries, dairies, etc.).

	polycarbonate (US transp. cover)	polyester (UP + US enclosures)	standard
mechanical properties			
shock resistance in N/cm ²	> 294	882	DIN 53453
bending strength in N/cm ²	> 9300	17 640	DIN 53452
tensile strength in N/cm ²	6500	8330	DIN 53455
electrical properties			
comparative tracking resistance (class)	275 V	600 V	DIN 53480
surface resistance in W	10 ¹⁵	10 ¹²	DIN 53482
dielectric strength in kV/cm	350	180-200	DIN 53481
volume (bulk) resistivity in W/cm	10 ¹⁶	10 ¹⁴	DIN 53482
fire resistance			
oxygen index in % of O ₂	26	24.4	ASTM D-2863-70
flame test	V2 at 1.5 mm	V0 at 1.5 mm	ISO 1210
incandescent wire test	750 °C 5 s	960 °C 5 s	IEC 695-2-1
other properties			
dimensional stability (Martens) in C°	115 to 125	> 250	DIN 53458
melting temperature (Vicat) in C°	145		DIN 53460
temperature resistance (continuous) in C°	– 50 to + 125	– 50 to + 140	
light-fastness (blue wool 1-8)	4	7-8	DIN 53388
tropicalisation and mould resistance	no damage	no damage	IEC 68-2-10
water absorption in mg	10	45	DIN 53472
specific mass in g/cm ³	1.2	1.75	DIN 53479

Resistance to chemicals (at ambient temperature)

	polycarbonate maximum concentration %	polyester maximum concentration %
acetone, ketones and derivatives	☐	☐
hydrochloric acid	20 (1)	30 (1)
citric acid	10 (1)	(1)
lactic acid	10 (1)	(1)
nitric acid	10 (1)	10 (2)
phosphoric acid	(1)	(1)
sulphuric acid	50 (1)	70 (1)
alcohols excepting benzyl, allyl and furfural alcohol	(1)	(1)
pure aniline	☐	(2)
mineral bases	(2)	5 (2)
benzine	☐	(1)
liquid bromine	☐	
liquid chlorine	☐	
seawater	(1)	(1)
petrol	☐	(1)
ethers	☐	(2)
hexane	(1)	☐
oils and fats	(1)	(1)
aromatic hydrocarbons	☐	☐
diesel oil	(2)	(1)
phenol	☐	10 (1)
iodine tincture	☐	
toluene	☐	(2)
trichlorethylene	☐	☐
urea	(1)	

(1) resistant

(2) limited resistance

☐ not resistant

Thermal management of switchboards

General

A switchboard is designed for operation under normal ambient conditions. Most devices do not operate properly outside a temperature range of $-10\text{ }^{\circ}\text{C}$ and $+50\text{ }^{\circ}\text{C}$.

It is therefore important to maintain the internal switchboard temperature within this range by:

- correctly sizing the switchboard during design
- adjusting the temperature using appropriate means.

Ways of adjusting internal temperature

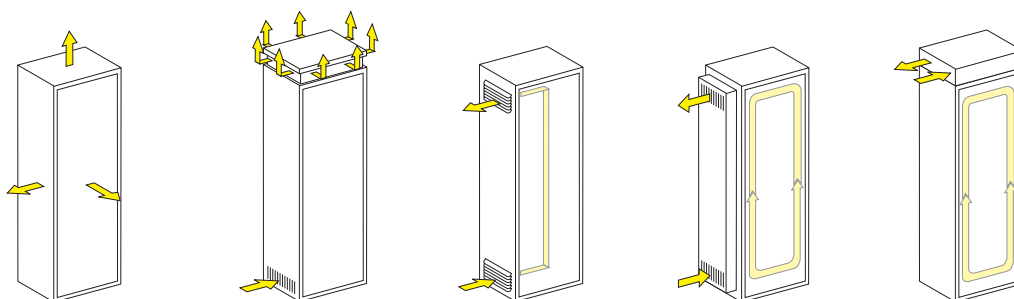
Cooling

There are a number of ways to dissipate heat from the switchboard. The table below lists the various means. The first two are by natural means available on Merlin Gerin enclosures, the third is frequently requested and the last two may be provided on special request.

Heating

The means used to raise the internal temperature in a switchboard is a resistor-based heater, used to:

- avoid condensation by limiting variations in temperature
- ensure that the switchboard does not freeze.



cooling means	natural convection	natural ventilation	forced-air ventilation	forced-air ventilation with exchanger	forced convection and cooling
P. max. dissipated 2000 x 800 x 400	400 W	700 W	2000 W	2000 W	2400 W
internal temperature	greater than the external temperature				regulated $+20$ to $+45\text{ }^{\circ}\text{C}$
external temperature	max. $40\text{ }^{\circ}\text{C}$	max. $40\text{ }^{\circ}\text{C}$	max. $40\text{ }^{\circ}\text{C}$	max. $40\text{ }^{\circ}\text{C}$	max. $55\text{ }^{\circ}\text{C}$
max. IP	IP 55	IP 20	IP 54	IP 55	IP 55

Calculating the internal switchboard temperature

The internal temperature is calculated to check that the thermal limits of devices are not overrun.

Method defined by IEC 890 report

This IEC guide contains a calculation method for cases where convection and natural ventilation are the means of cooling. Users should consult this report whenever undertaking the general design of a switchboard.

Rapid calculation charts (see next page)

These charts are based on the experience acquired by Schneider Electric. They may be used to determine, with a satisfactory degree of accuracy, temperature differences and heat losses depending on the type of cubicle or enclosure.

Note: when cubicles or enclosures are placed side by side, the power dissipated is reduced by 10%.

For the cubicles and enclosures not presented on the next page, the following equation may be used:

$$P = \Delta T \times S \times K$$

where:

P : power dissipated by the devices, connections and busbars (in Watts)

$$\Delta T = T_i - T_e$$

S : total free surface area of the enclosure (in square meters)

K : thermal-conduction coefficient of the material ($\text{W/m}^2\text{ }^{\circ}\text{C}$)

$K = 5.5\text{ W/m}^2\text{ }^{\circ}\text{C}$ for painted sheet metal

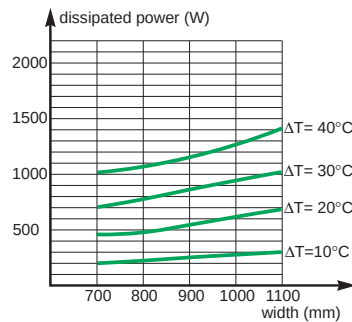
$K = 4\text{ W/m}^2\text{ }^{\circ}\text{C}$ for polyester

Note: the power dissipated by devices is indicated by the manufacturers. Add approximately 30% to account for the connections and the busbars.

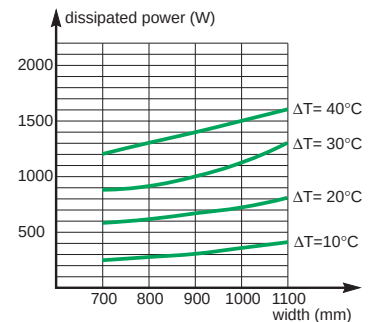
Thermal management of switchboards General

Rapid calculation charts for internal temperature: Prisma P

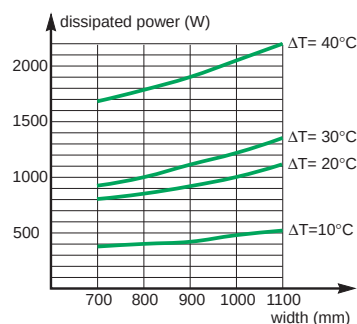
Test condition: cubicle placed on the floor against a wall. The internal temperature rises indicated are those taken at mid height of the enclosure.



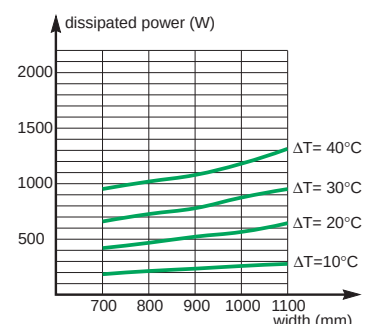
Prisma P cubicle (IP 2, depth 400)



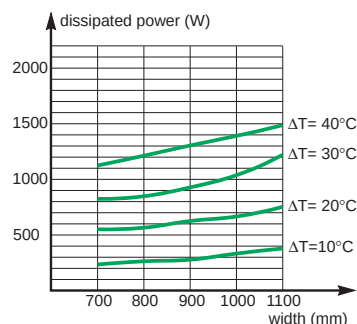
Prisma P cubicle (IP 2, depth 600)



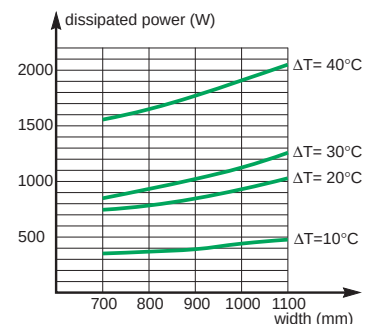
Prisma P cubicle (IP 2, depth 1000)



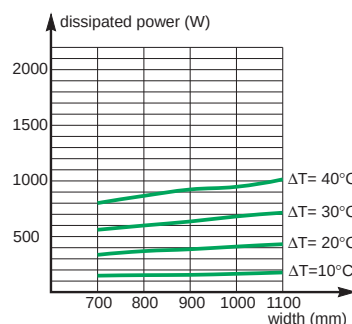
Prisma P cubicle (IP 3, depth 400)



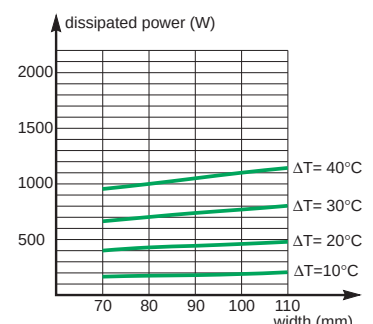
Prisma P cubicle (IP 3, depth 600)



Prisma P cubicle (IP 3, depth 1000)



Prisma P cubicle (IP 5, depth 400)

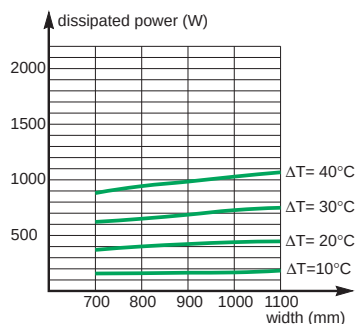


Prisma P cubicle (IP 5, depth 600)

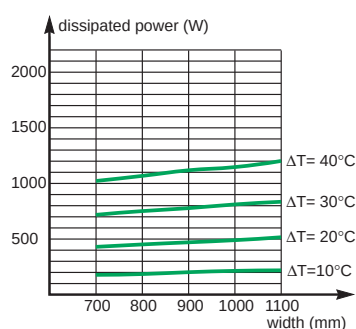
Prisma P cubicle (IP 5, depth 1000)
(see page 4)

Rapid calculation charts for internal temperature: Prisma PH

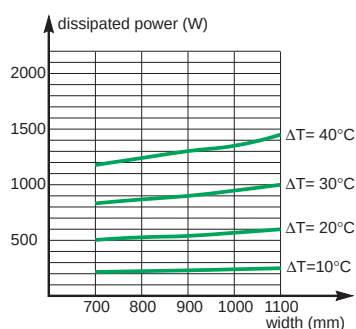
Test condition: cubicle placed on the floor against a wall. The internal temperature rises indicated are those taken at mid height of the enclosure.



Prisma PH cubicle (IP 5, depth 500)



Prisma PH cubicle (IP 5, depth 700)

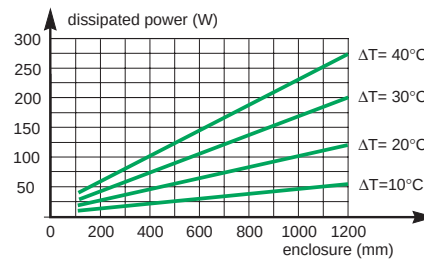


Prisma P/PH cubicle (IP 5, depth 1000)

Thermal management of switchboards General

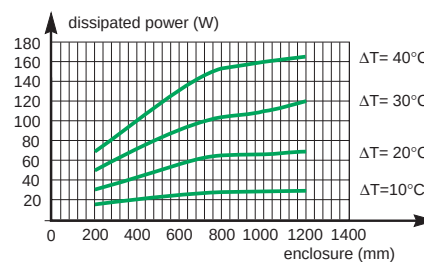
Rapid calculation charts for internal temperature: Prisma G / GX / GK

The internal temperature rises indicated are those taken at mid height of the enclosure.



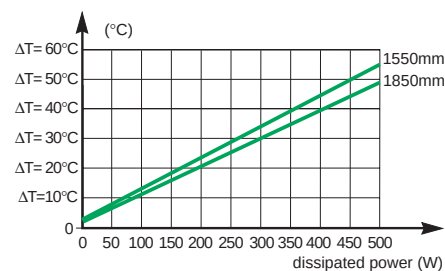
Prisma G cubicle (IP3)

Test condition:
500 mm wide enclosure
Wall mounted directly without
fixing lugs.



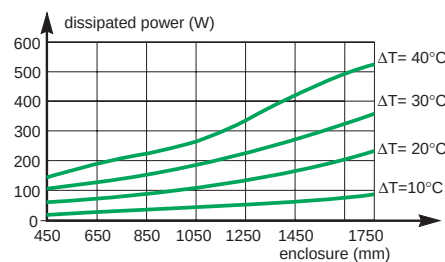
Prisma G cubicle (IP4)

Test condition:
500 mm wide enclosure
Wall mounted directly without
fixing lugs.



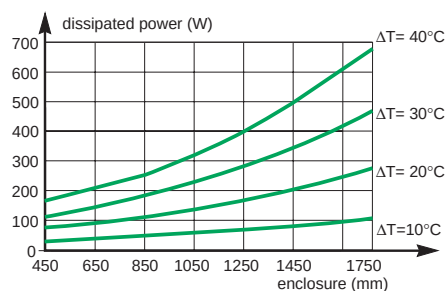
Prisma GX cubicle (IP4)

Test condition:
500 mm wide enclosure
Placed on the floor against a
wall.



Prisma GK cubicle (IP5)

Test condition:
550 mm wide enclosure
wall mounted using wall fixing
lugs or on the wall fixing
uprights.



Prisma GK cubicle (IP5)

Test condition:
550 mm wide enclosure
wall mounted directly without
fixing lugs or uprights.

Thermal management of switchboards Ventilation

Switchboard ventilation

Air enters through the bottom section via the fan and exits through the top section:

- via a ventilated roof or
- via a ventilation outlet.

Throughput of the fan is calculated by the equation:

$$D = 3.1 \times \left(\frac{P}{\Delta T} - KS \right)$$

The chart below can be used to determine the required throughput on the basis of the power to be dissipated, the difference in temperature (internal / external) and the free surface area of the enclosure.

Example

A Prisma P cubicle, 400 mm deep and 700 mm wide, contains equipment (devices, busbars, etc.) dissipating 1000 W.

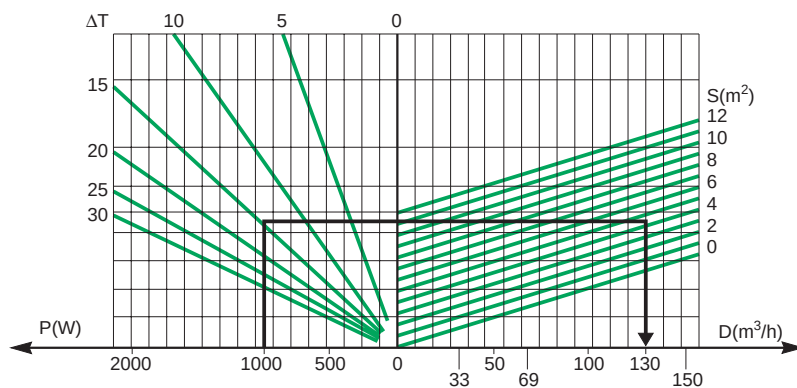
The difference in temperature (internal / external) is limited to 15 °C. The free surface area of the enclosure is 4.9 square meters.

What is the required throughput of the fan? Using the equation:

$$D = 3.1 \times \left(\frac{1000}{15} - 5.5 \times 4.9 \right)$$

$D = 122 \text{ m}^3/\text{h}$.

Among the range of accessories for Prisma cubicles, the user must select a 38 W fan with an outlet grill.



Thermal management of switchboards Heating

Switchboard heating

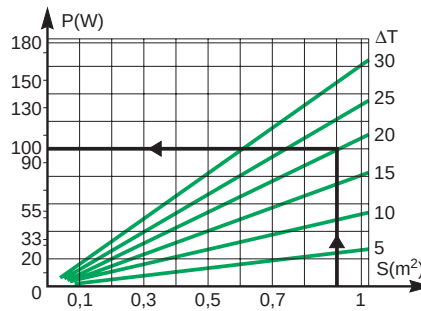
The heating element, placed at the bottom of the switchboard, maintains the internal temperature to within 10° C of the external temperature. When the switchboard is not in operation, the heater compensates the heat normally produced in the switchboard.

The required power rating for the heater is determined by:

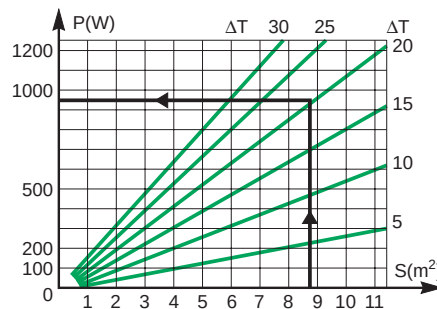
■ the equation $P_r = (\Delta T \times S \times K) - P$, or

■ the charts below, on the basis of the free surface area of the enclosure and the desired maximum difference in temperature.

Calculation chart for heaters in small enclosures (surface area $\leq 1 \text{ m}^2$).



Calculation chart for heaters in all types of cubicles and enclosures



Variables used in calculations

P : power dissipated by the devices, connections and busbars (in Watts)

P_r : heater power rating (in Watts)

T_m : maximum internal temperature in the device zone (°C)

T_i : average internal temperature (°C)

T_e : average external temperature (°C)

$$\Delta T_m = T_m - T_e$$

$$\Delta T = T_i - T_e$$

S : total free surface area of the enclosure (in square meters)

K : thermal-conduction coefficient of the material ($\text{W/m}^2 \text{ } ^\circ\text{C}$)

$K = 5.5 \text{ W/m}^2 \text{ } ^\circ\text{C}$ for painted sheet metal.

$K = 4 \text{ W/m}^2 \text{ } ^\circ\text{C}$ for polyester

D : fan throughput (m^3/h)

Note: The power dissipated by devices is indicated by the manufacturers. Add approximately 30 % to account for the connections and the busbars.

Thermal management of switchboards

Temperature rise test

Masterpact NT, drawout front connected:

- supplied by busbar trunking system (Telemecanique)
- connected to a Linergy busbar with a prefabricated connection.



Thermal management of switchboards

Temperature rise test

