

Catalogue 2002

Wall Mounted and Floor Standing Cabinets



ABB



Wall cabinets for distribution board construction



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Applicable standards:

DIN VDE 0603, DIN VDE 0660 Part 500, 504 (TSK/PTSK), DIN EN 60439-1, DIN EN 60439-3, DIN 43870



Applicable standards:

DIN VDE 0660 Part 500, 504 (TSK/PTSK), DIN EN 60439-1, DIN EN 60439-3, DIN 43871

¹⁾ Evidence in accordance with VDE 0660 Part 500 required depending on the switchgear combination (PTSK)

The relevant regulations for manufacturing switchgear combinations must be observed in order to conform to protection class 1/2 (grounded / double insulated).



Wall cabinets for distribution board construction, double insulated, for indoor use

- Prepared for the installation of distribution board and meter panels

Applicable standards:
DIN VDE 0603, 0660 part 500, 504 (TSK/PTSK),
DIN 43870, DIN EN 60439-1, DIN EN 60439-3



U cabinets

IP 31 □

Cabinet depth 200 mm

Empty cabinets for flush-mounting with trim frame and door

- I_N 250A (355A¹⁾)
- Flush wall box of electrolytically galvanised sheet steel, 1 mm, with recessed plastic profile for double insulation
- Trim frame with sheet steel door, adjustment to the plaster surface 35 mm
- RAL 9016 powder-coated
- Prepared for the installation of meter and distribution board panels
- Double-wing doors for cabinets 3 panels wide or more
- Door opening angle 130 degrees
- With casement fastener ZB 113 as standard
- Nipple flange ZB 39 included



A cabinets

IP 43 □

Cabinet depth 215 mm

Empty cabinets for surface mounting, flush-mounting and partially recessed mounting for indoor use

- I_N 250A (355A¹⁾)
- Enclosure made of 1 mm and door made of 1.25 mm sheet steel with recessed plastic profile for double insulation
- RAL 9016, powder-coated
- Prepared for the installation of meter and distribution board panels
- Double-wing doors for cabinets 3 panels wide or more
- Door opening angle 130 degrees
- With casement fastener ZB 113 as standard
- Flange openings at the top and knock outs are provided at the bottom and sides
- Membrane flanges are mounted in the top (per panel width)
- One nipple flange ZB 40 also included
- Plastic backplate
- If partially recessed mounting is envisaged, a frame for plastering can be supplied

¹⁾ Evidence in accordance with VDE 0660 Part 500 required depending on the switchgear combination



FS cabinets

IP 54 □

Cabinet depth 225 mm

Empty cabinets for surface mounting and partially recessed mounting

- I_N 250A (355A¹⁾)
- Enclosure and door made of 1.5 mm sheet steel
- RAL 7035 powder-coated
- The cabinets are prepared for the installation of meter and distribution board panels
- Double-doors for cabinets 4 panels wide or more
- Door opening angle 160 degrees
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- One flange opening per panel width is cut out at the top, knockouts are provided at the sides and bottom. No side knockouts in the case of overall height 0.
- The top and bottom flange openings can optionally be closed with a PG flange or a membrane flange.
(Flanges must be ordered separately.)
- With external fixing straps



WS cabinets

IP 55 □

Cabinet depth 360 mm

Empty cabinets for surface mounting and partially recessed mounting

- I_N 355A
- Enclosure made of 1.5 mm sheet steel with 2 mm thick door
- RAL 7035 powder-coated
- The cabinets are prepared for the installation of distribution board panels
- Double-doors for cabinets 4 panels wide or more
- Door opening angle 120 degrees
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- One flange opening per panel width is cut out at the top and bottom, knockouts are provided at the sides.
- The top and bottom flange openings can optionally be closed with a nipple flange, sponge rubber flange or closure flange.
(Flanges must be ordered separately.)
- With external fixing straps

¹⁾Evidence in accordance with VDE 0660 Part 500 required depending on the switchgear combination (TSK, PTSK)



Wall cabinets for distribution board construction, double-insulated, indoor

U cabinet

IP 31  

Applicable standards:

DIN VDE 0603, 0660 T 500/504, DIN EN 60439-1,
DIN EN 60439-3, DIN 43870

Colour: RAL 9016 (trim frame and door)

Flanges included.

A cabinet

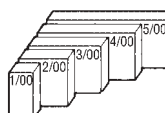
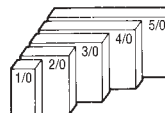
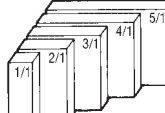
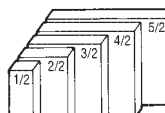
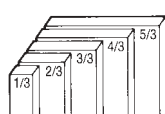
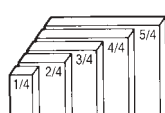
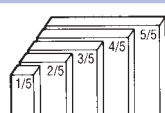
IP 43  

Applicable standards:

DIN VDE 0603, 0660 T 500/504, DIN EN 60439-1,
DIN EN 60439-3, DIN 43870

Colour: RAL 9016

Membrane flange, mounted at the top.

Overall height	Grid unit	Panels	PLE	Type	Niche dimensions HxWxD mm	Type	External dimensions HxWxD mm
00	3 RE						
500 mm		1 2 3 4 5	36 72 108 144 180			1/00 A 2/00 A 3/00 A 4/00 A 5/00 A	500 x 300 x 215 500 x 550 x 215 500 x 800 x 215 500 x 1050 x 215 500 x 1300 x 215
0	4 RE						
650 mm		1 2 3 4 5	48 96 144 192 240			1/0 A 2/0 A 3/0 A 4/0 A 5/0 A	650 x 300 x 215 650 x 550 x 215 650 x 800 x 215 650 x 1050 x 215 650 x 1300 x 215
1	5 RE						
800 mm		1 2 3 4 5	60 120 180 240 300	1/1 U 2/1 U 3/1 U 4/1 U	815 x 315 x 200 815 x 565 x 200 815 x 815 x 200 815 x 1065 x 200	1/1 A 2/1 A 3/1 A 4/1 A 5/1 A	800 x 300 x 215 800 x 550 x 215 800 x 800 x 215 800 x 1050 x 215 800 x 1300 x 215
2	6 RE						
950 mm		1 2 3 4 5	72 144 216 288 360	1/2 U 2/2 U 3/2 U 4/2 U 5/2 U	965 x 315 x 200 965 x 565 x 200 965 x 815 x 200 965 x 1065 x 200 965 x 1315 x 200	1/2 A 2/2 A 3/2 A 4/2 A 5/2 A	950 x 300 x 215 950 x 550 x 215 950 x 800 x 215 950 x 1050 x 215 950 x 1300 x 215
3	7 RE						
1100 mm		1 2 3 4 5	84 168 252 336 420	1/3 U 2/3 U 3/3 U 4/3 U 5/3 U	1115 x 315 x 200 1115 x 565 x 200 1115 x 815 x 200 1115 x 1065 x 200 1115 x 1315 x 200	1/3 A 2/3 A 3/3 A 4/3 A 5/3 A	1100 x 300 x 215 1100 x 550 x 215 1100 x 800 x 215 1100 x 1050 x 215 1100 x 1300 x 215
4	8 RE						
1250 mm		1 2 3 4 5	96 192 288 384 480	1/4 U 2/4 U 3/4 U 4/4 U 5/4 U	1265 x 315 x 200 1265 x 565 x 200 1265 x 815 x 200 1265 x 1065 x 200 1265 x 1315 x 200	1/4 A 2/4 A 3/4 A 4/4 A 5/4 A	1250 x 300 x 215 1250 x 550 x 215 1250 x 800 x 215 1250 x 1050 x 215 1250 x 1300 x 215
5	9 RE						
1400 mm		1 2 3 4 5	108 216 324 432 540	1/5 U 2/5 U 3/5 U 4/5 U 5/5 U	1415 x 315 x 200 1415 x 565 x 200 1415 x 815 x 200 1415 x 1065 x 200 1415 x 1315 x 200	1/5 A 2/5 A 3/5 A 4/5 A 5/5 A	1400 x 300 x 215 1400 x 550 x 215 1400 x 800 x 215 1400 x 1050 x 215 1400 x 1300 x 215



FS cabinet

IP 54  

Applicable standards:
DIN VDE 0603, 0660 T 500/504, DIN EN 60439-1,
DIN EN 60439-3, DIN 43870
Colour: RAL 7035

WS cabinet

IP 55 

Applicable standards:
DIN VDE 0603, 0660 T 500/504, DIN EN 60439-1,
DIN EN 60439-3, DIN 43870
Colour: RAL 7035

Type	External dimensions HxWxD mm	Type	External dimensions HxWxD mm
2/0 FS	650 x 550 x 225		
3/0 FS	650 x 800 x 225		
4/0 FS	650 x 1050 x 225		
5/0 FS	650 x 1300 x 225		
1/2 FS	950 x 300 x 225	2/2 WS	970 x 570 x 360
2/2 FS	950 x 550 x 225	3/2 WS	970 x 820 x 360
3/2 FS	950 x 800 x 225	4/2 WS	970 x 1070 x 360
4/2 FS	950 x 1050 x 225	5/2 WS	970 x 1320 x 360
5/2 FS	950 x 1300 x 225		
2/4 FS	1250 x 550 x 225	2/4 WS	1270 x 570 x 360
3/4 FS	1250 x 800 x 225	3/4 WS	1270 x 820 x 360
4/4 FS	1250 x 1050 x 225	4/4 WS	1270 x 1070 x 360
5/4 FS	1250 x 1300 x 225	5/4 WS	1270 x 1320 x 360
2/5 FS	1400 x 550 x 225		
3/5 FS	1400 x 800 x 225		
4/5 FS	1400 x 1050 x 225		
5/5 FS	1400 x 1300 x 225		



Accessories for wall cabinets for distribution board construction

Article	Type
A cabinets	
Insulating frame for cabinet connection for the side flange knock-outs (in order to maintain the double insulation when cabinets are assembled next to each other) (with connection materials).	ZX 455
Insulating frame for cabinet connection for the top / bottom flange cut-outs (in order to maintain the double insulation when cabinets are assembled one above the other).	ZX 454
Membrane flange* for feeding in the cable	ZB 43
Nipple flange* for feeding in the cable	ZB 40
A and U cabinets	
Standard closure*	ZB 113
Safety cylinder with 2 keys	ZB 111
Espagnolette closure Espagnolette closure in conjunction with standard closure and safety cylinder for retrofitting into A, B and U cabinets	
for overall height 0 (4 grid spacing)	ZX 456
for overall height 1 (5 grid spacing)	ZX 457
for overall height 2 (6 grid spacing)	ZX 458
for overall height 3 (7 grid spacing)	ZX 459
for overall height 4 (8 grid spacing)	ZX 460
for overall height 5 (9 grid spacing)	ZX 461
Set for installing actuation possibilities in conjunction with ZH 120/ZH 121/ZH 122	ZH 800
Latch plate for double-bit pin 3mm standard and 5 mm (also order ZH 800)	ZH 120
Operating pin double bit 3 mm double bit 5 mm	ZH 130 ZH 131
Latch plate For triangular and square operating pins and also for Daimler-Benz insert (also order ZH 800)	ZH 121
Operating pin Triangular 7 mm Triangular 8 mm	ZH 132 ZH 133
Square 6 mm	ZH 134
Square 7 mm	ZH 135
Square 8 mm	ZH 136
Daimler-Benz insert	ZH 137

Latch plate For T-handle or latch type handle (also order ZH 800)	ZH 122
T-handle without lock	ZH 138
with lock	ZH 139
Latch handle without lock	ZH 140
with lock	ZH 141
Cabinet handle closure for semi-cylinder, with lead-sealable cap	ZH 128
Dummy insert instead of a lock cylinder	ZH 142
Cabinet handle closure Senate lock Berlin	ZH 127
Cabinet handle closure Closure EO 12	ZH 103
Espagnolette closure Espagnolette closure in conjunction with ZH 103, ZH 120, ZH 121, ZH 122, ZH 127 and ZH 128 lock system for overall height 0 (4 grid spacing) for overall height 1 (5 grid spacing) for overall height 2 (6 grid spacing) for overall height 3 (7 grid spacing) for overall height 4 (8 grid spacing) for overall height 5 (9 grid spacing)	ZX 440 ZX 441 ZX 442 ZX 443 ZX 444 ZX 445

FS cabinets

Flange IP 54
Attention: Always order flanges as additional items! The cabinet has one flange cut-out per panel width at the top, Knockouts are provided for the side and bottom.

Cover flange plate

1 ea. **ZP 55**
10 ea. **ZP 55P10**

Flange for PG screw fittings

1 x PG 42 / 2 x PG 21
1 ea. **ZP 56**
10 ea. **ZP 56P10**

Flange for PG screw fittings

2 x PG 29 / 4 x PG 16 /
3 x PG 13,5 / 2 x PG 11
1 ea. **ZP 57**
10 ea. **ZP 57P10**

Membrane flange

1 ea. **ZP 58**
10 ea. **ZP 58P10**

Touch guard* only for
Single meter panels
Double meter panels

ZW 123
ZW 124

Insulating frame

for the side flange knockouts of the FS cabinets (in order to maintain the double insulation when assembling cabinets)

ZW 194

*Spare part included in the scope of delivery.

Article	Type
Busbar connector (with insulating frame) for FS cabinets (cabinet – cabinet) 1 set 4-pole, 250 A 1 set 5-pole, 250 A	 ZW 185 ZW 186
1 set 4-pole, 355 A 1 set 5-pole, 355 A	ZW 187 ZW 188

Connection material 1 set for cabinet combination	 ZW 190
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WS cabinets

Flange IP 55
(Attention: always order flanges as separate items!)
Order one flange each for the top and bottom per panel width.

Cover flange plate 1 ea. 10 ea.	 ZW 51 ZW 51P10
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Nipple flange 2 x PG 29, 5 x PG 16, 42 x PG 13.5 1 ea. 10 ea.	 ZW 52 ZW 52P10
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Flange for PG screw fittings 4 x PG 21, 12 x PG 13.5 1 ea. 10 ea.	 ZW 53 ZW 53P10
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Sponge rubber flange 1 ea. 10 ea.	 ZW 54 ZW 54P10
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Insulating frame for the side flange knockouts of the WS cabinets (in order to maintain the double insulation when assembling cabinets)	 ZW 194
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Connection material 1 set for cabinet combination	 ZW 190
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FS, WS cabinets

Lock replacement parts

Latch plate* for double bit pin 3 mm (standard) and 5 mm	 ZH 120
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Operating pin double bit 3 mm* double bit 5 mm	 ZH 130 ZH 131
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Latch plate for triangular and square operating pins and for Daimler-Benz insert	 ZH 121
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Operating pins

Triangular 7 mm Triangular 8 mm	 ZH 132 ZH 133
Square 6 mm Square 7 mm Square 8 mm	 ZH 134 ZH 135 ZH 136
Daimler-Benz insert	 ZH 137

Article	Type
Operating keys	
Double bit 3 mm* 5 mm	 ZH 160 ZH 161
Triangular 7 mm 8 mm	 ZH 157 ZH 158
Square 6 mm 7 mm 8 mm	 ZH 162 ZH 163 ZH 164
Daimler-Benz	 ZH 165
Universal key double bit 3 mm/5 mm	 ZH 91
Triangular 8 mm Square 6 mm/8 mm	
Latch plate for T-handle and latch type handle	 ZH 122
T-handle without lock, complete	 ZH 138
with lock, complete	 ZH 139
Latch handle without lock, complete	 ZH 140
with lock, complete	 ZH 141
Cabinet handle closure for semi-cylinder, 45 mm, with lead sealable cap	 ZH 123
Dummy insert (instead of a lock cylinder)	 ZH 142

*Spare part included in the scope of delivery



Wall cabinets for distribution board construction, grounded, for indoor use

B cabinets

IP 43

Cabinet depth 215 mm



Empty cabinets for surface mounting, flush mounting and partially recessed mounting

- I_N 250A (355A¹⁾)
- Enclosure made of 1 mm sheet steel and door made of 1.25 mm sheet steel
- RAL 9016 powder-coated
- Prepared for the installation of standard panels or a mounting plate made of galvanised sheet steel
- Double-wing doors for cabinets 3 panels wide or more
- Door opening angle 130 degrees
- With casement fastener ZB 113 as standard
- Flange openings at the top and knock outs are provided at the bottom and sides
- Membrane flanges mounted at the top (per panel width)

G cabinets

IP 54

Cabinet depth 225 mm



Empty cabinets for surface mounting and partially recessed mounting

- I_N 250A (355A¹⁾)
- Enclosure and door made of 1.5 mm sheet steel
- RAL 7035 powder-coated
- For the installation of standard panels or a mounting plate made of galvanised sheet steel
- Double-wing doors for cabinets 4 panels wide or more
- Door opening angle 160 degrees
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- One flange opening per panel width is cut out at the top, knockouts are provided at the bottom and sides. No side knockouts in the case of overall height 0.
- The top and bottom flanged openings can optionally be closed with a PG flange or membrane flange. **(Flanges must be ordered separately.)**
- With external fixing straps

¹⁾ Evidence in accordance with VDE 0600 Part 500 required depending on the switchgear combination



C cabinets

IP 54

Cabinet depth 260 mm



Empty cabinets for surface mounting and partially recessed mounting

- I_N 355A
- Enclosure and door made of 1.5 mm sheet steel
- RAL 7035 powder-coated
- For the installation of standard panels or a mounting plate made of galvanised sheet steel
- Double-wing doors for cabinets 4 panels wide or more
- Door opening angle 160 degrees
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- One flange opening per panel width is cut out at the top, knockouts are provided at the bottom and sides. No side knockouts in the case of overall height 0.
- The top and bottom flange openings can optionally be closed with a PG flange or membrane flange. **(Flanges must be ordered separately.)**
- With external fixing straps

W cabinets

IP 55

Cabinet depth 360 mm



Empty cabinets for surface mounting and partially recessed mounting

- I_N 355A (630A¹⁾)
- Enclosure made of 1.5 mm sheet steel, door made of 2 mm sheet steel
- RAL 7035 powder-coated
- For the installation of standard panels or a mounting plate made of galvanised sheet steel
- Double-wing doors for cabinets 4 panels wide or more
- Door opening angle 120 degrees
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- One flange opening per panel width is cut out at the top and bottom, knockouts are provided at the sides.
- The top and bottom flange openings can optionally be closed with a nipple flange, sponge rubber flange or closure flange. **(Flanges must be ordered separately.)**
- With external fixing straps

¹⁾ Evidence in accordance with VDE 0660 Part 500 required depending on the switchgear combination



System overview

B cabinets

IP 43

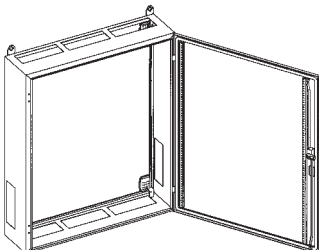
Cabinet depth 215 mm



G cabinets

IP 54

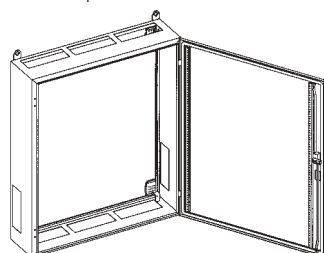
Cabinet depth 225 mm



C cabinets

IP 54

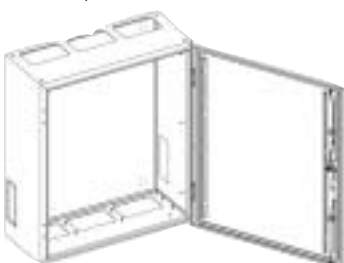
Cabinet depth 260 mm



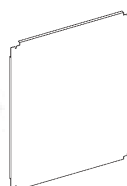
W cabinets

IP 55

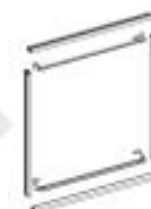
Cabinet depth 360 mm



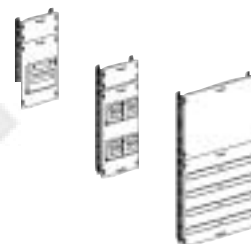
Distribution board panels /
combination sets / TNF modules



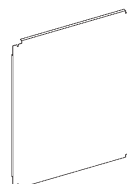
Mounting plate



Standard panel installation
set with touch guard



Distribution board panels /
combination sets /
TNF modules



Mounting plate



Wall cabinets for distribution board construction, grounded, for indoor use

B cabinet

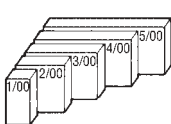
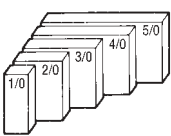
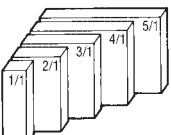
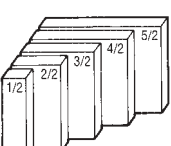
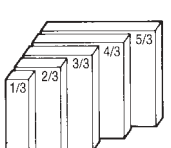
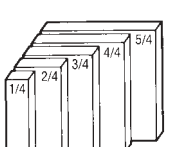
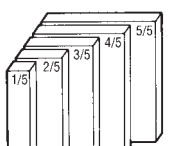
G cabinet

IP 43

Applicable standards:
DIN VDE 0660 Part 500 / 504, DIN EN 60439-1,
DIN EN 60439-3, DIN 43871
Colour: RAL 9016
Prepared for installation
of standard panels
with touch guard

IP 54

Applicable standards:
DIN VDE 0660 Part 500 / 504, DIN EN 60439-1,
DIN EN 60439-3, DIN 43871
Colour: RAL 7035
Empty cabinet

Overall height	Grid spacing	Panels	PLE	Type	External dimensions HxWxD mm	Type	External dimensions HxWxD mm
00	3 RE						
500 mm		1 2 3 4 5	36 72 108 144 180	1/00B 2/00B 3/00B	500 x 300 x 215 500 x 550 x 215 500 x 800 x 215		
0	4 RE						
650 mm		1 2 3 4 5	48 96 144 192 240	1/0 B 2/0 B 3/0 B 4/0 B 5/0 B	650 x 300 x 215 650 x 550 x 215 650 x 800 x 215 650 x 1050 x 215 650 x 1300 x 215	2/0 G 3/0 G 4/0 G 5/0 G	650 x 550 x 225 650 x 800 x 225 650 x 1050 x 225 650 x 1300 x 225
1	5 RE						
800 mm		1 2 3 4 5	60 120 180 240 300	1/1 B 2/1 B 3/1 B 4/1 B 5/1 B	800 x 300 x 215 800 x 550 x 215 800 x 800 x 215 800 x 1050 x 215 800 x 1300 x 215		
2	6 RE						
950 mm		1 2 3 4 5	72 144 216 288 360	1/2 B 2/2 B 3/2 B 4/2 B 5/2 B	950 x 300 x 215 950 x 550 x 215 950 x 800 x 215 950 x 1050 x 215 950 x 1300 x 215	1/2 G 2/2 G 3/2 G 4/2 G 5/2 G	950 x 300 x 225 950 x 550 x 225 950 x 800 x 225 950 x 1050 x 225 950 x 1300 x 225
3	7 RE						
1100 mm		1 2 3 4 5	84 168 252 336 420	1/3 B 2/3 B 3/3 B 4/3 B 5/3 B	1100 x 300 x 215 1100 x 550 x 215 1100 x 800 x 215 1100 x 1050 x 215 1100 x 1300 x 215		
4	8 RE						
1250 mm		1 2 3 4 5	96 192 288 384 480	1/4 B 2/4 B 3/4 B 4/4 B 5/4 B	1250 x 300 x 215 1250 x 550 x 215 1250 x 800 x 215 1250 x 1050 x 215 1250 x 1300 x 215	2/4 G 3/4 G 4/4 G 5/4 G	1250 x 550 x 225 1250 x 800 x 225 1250 x 1050 x 225 1250 x 1300 x 225
5	9 RE						
1400 mm		1 2 3 4 5	108 216 324 432 540	1/5 B 2/5 B 3/5 B 4/5 B 5/5 B	1400 x 300 x 215 1400 x 550 x 215 1400 x 800 x 215 1400 x 1050 x 215 1400 x 1300 x 215	2/5 G 3/5 G 4/5 G 5/5 G	1400 x 550 x 225 1400 x 800 x 225 1400 x 1050 x 225 1400 x 1300 x 225



C cabinet

W cabinet

Mounting elements

IP 54

Applicable standards:
DIN VDE 0660 Part 500 / 504, DIN EN 60439-1,
DIN EN 60439-3, DIN 43871
Colour: RAL 7035
Empty cabinet

IP 55

Applicable standards:
DIN VDE 0660 Part 500 / 504, DIN EN 60439-1,
DIN EN 60439-3, DIN 43871
Colour: RAL 7035
Empty cabinet

B, C and G cabinets Mounting plate

1.5 mm sheet steel
galvanised



Type	External dimensions HxWxD mm	Type	External dimensions HxWxD mm	Type	External dimensions HxWxD mm
2/0 C	650 x 550 x 260			GM 20	600 x 500
3/0 C	650 x 800 x 260			GM 30	600 x 750
4/0 C	650 x 1050 x 260			GM 40	600 x 1000
5/0 C	650 x 1300 x 260			GM 50	600 x 1250
2/2 C	950 x 550 x 260	2/2 W	970 x 570 x 360	GM 12	900 x 250
3/2 C	950 x 800 x 260	3/2 W	970 x 820 x 360	GM 22	900 x 500
4/2 C	950 x 1050 x 260	4/2 W	970 x 1070 x 360	GM 32	900 x 750
5/2 C	950 x 1300 x 260	5/2 W	970 x 1320 x 360	GM 42	900 x 1000
				GM 52	900 x 1250
2/4 C	1250 x 550 x 260	2/4 W	1270 x 570 x 360	GM 24	1200 x 500
3/4 C	1250 x 800 x 260	3/4 W	1270 x 820 x 360	GM 34	1200 x 750
4/4 C	1250 x 1050 x 260	4/4 W	1270 x 1070 x 360	GM 44	1200 x 1000
5/4 C	1250 x 1300 x 260	5/4 W	1270 x 1320 x 360	GM 54	1200 x 1250
2/5 C	1400 x 550 x 260			GM 25	1350 x 500
3/5 C	1400 x 800 x 260			GM 35	1350 x 750
4/5 C	1400 x 1050 x 260			GM 45	1350 x 1000
5/5 C	1400 x 1300 x 260			GM 55	1350 x 1250



G cabinet:

Standard panel installation set

C cabinet:

Standard panel installation set

W cabinet:

Standard panel installation set

W cabinet:

Mounting plate



1.5 mm sheet steel,
galvanised

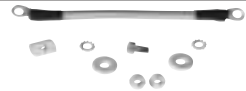


Type	Type	Type	Type	External dimensions HxWxD mm
GB 20	CB 20			
GB 30	CB 30			
GB 40	CB 40			
GB 50	CB 50			
GB 12	CB 22	WB 22	WM 22	867 x 495
GB 22	CB 32	WB 32	WM 32	867 x 745
GB 32	CB 42	WB 42	WM 42	867 x 995
GB 42	CB 52	WB 52	WM 52	867 x 1245
GB 52				
GB 24	CB 24	WB 24	WM 24	1167 x 495
GB 34	CB 34	WB 34	WM 34	1167 x 745
GB 44	CB 44	WB 44	WM 44	1167 x 995
GB 54	CB 54	WB 54	WM 54	1167 x 1245
GB 25	CB 25			
GB 35	CB 35			
GB 45	CB 45			
GB 55	CB 55			



Accessories for wall cabinets for distribution board construction

Article	Type
B cabinets	
1 set of connection material cabinet – cabinet connection	 ZX 131
Nipple flanges for feeding in the cable	 ZB 40
Membrane flange* for feeding in the cable	 ZB 43
Lock parts	
Standard closure*	 ZB 113
Safety cylinder with 2 keys	 ZB 111
Espagnolette closure in conjunction with standard closure and safety cylinder	
for overall height 0	ZX 456
for overall height 1	ZX 457
for overall height 2	ZX 458
for overall height 3	ZX 459
for overall height 4	ZX 460
for overall height 5	ZX 461
Set for installing actuation possibilities in conjunction with ZH 120/ZH 121/ZH 122	 ZH 800
Cabinet closure Senate lock Berlin	 ZH 127
Cabinet closure Closure EO 12	 ZH 103
Cabinet closure for semi-cylinder, lead-sealable	 ZH 128
Espagnolette closure Espagnolette closure in conjunction with ZH 103, ZH 120, ZH 121, ZH 122, ZH 127 and ZH 128 lock system	
for overall height 0 (4 grid spacing)	ZX 440
for overall height 1 (5 grid spacing)	ZX 441
for overall height 2 (6 grid spacing)	ZX 442
for overall height 3 (7 grid spacing)	ZX 443
for overall height 4 (8 grid spacing)	ZX 444
for overall height 5 (9 grid spacing)	ZX 445

Article	Type
G, C cabinets	
Flange IP 54 Attention: always order as an additional item! The cabinet has one flange cut-out per panel width at the top. Knockouts are provided at the sides and bottom.	
Cover flange plate 1 ea. 10 ea.	 ZP 55 ZP 55P10
Flange for PG screw fittings 1 x PG 42 / 2 x PG 21 1 ea. 10 ea.	 ZP 56 ZP 56P10
Flange for PG screw fittings 2 x PG 29 / 4 x PG 16 3 x PG 13.5 / 2 x PG 11 1 ea. 10 ea.	 ZP 57 ZP 57P10
Membrane flange 1 ea. 10 ea.	 ZP 58 ZP 58P10
C, G and W cabinets	
External straps* 4 ea.	 ZW 125P4
Connection material 1 set for cabinet combination	 ZW 190
Door grounding set 10 mm ²	 XZ 77
N and PE bars with holder each with 23 x 10 + 4 x 16 mm ²	 ZK 219
W cabinets	
Flange IP 55 Attention: always order as an additional item! Order one flange cut-out per panel width at the top and bottom.	
Cover flange plate 1 ea. 10 ea.	 ZW 51 ZW 51P10
Nipple flange 2 x PG 29, 5 x PG 16, 42 x PG 13.5 1 ea. 10 ea.	 ZW 52 ZW 52P10
Flange for PG screw fittings 4 x PG 21, 12 x PG 13.5 1 ea. 10 ea.	 ZW 53 ZW 53P10
Sponge rubber flange 1 ea. 10 ea.	 ZW 54 ZW 54P10

*Spare part included in the scope of delivery.



Article	Type
Lock replacement parts for G, C and W cabinets	
Latch plate for double bit pin 3mm* (standard) and 5 mm	ZH 120
Operating pin double bit 3 mm* double bit 5 mm	ZH 130 ZH 131
Latch plate for triangular and square operating pins and for Daimler-Benz insert	ZH 121
Operating pins Triangular 7 mm Triangular 8 mm	ZH 132 ZH 133
Square 6 mm Square 7 mm Square 8 mm	ZH 134 ZH 135 ZH 136
Daimler-Benz insert	ZH 137
Universal key Double bit 3 mm/5 mm Triangular 8 mm Square 6 mm/8 mm	ZH 91
Operating key	
Double bit 3 mm* 5 mm	ZH 160 ZH 161
Triangular 7 mm 8 mm	ZH 157 ZH 158
Square 6 mm 7 mm 8 mm	ZH 162 ZH 163 ZH 164
Daimler-Benz	ZH 165

Article	Type
Latch plate for T-handle and latch type handle	ZH 122
T-handle without lock, complete with lock, complete	ZH 138 ZH 139
Latch handle without lock, complete with lock, complete	ZH 140 ZH 141
Cabinet handle closure for semi-cylinder, 45 mm, with lead-sealable cap	ZH 123
Dummy insert (instead of a lock cylinder)	ZH 142
Espagnolette guide* with fastening material	ZH 148
Rubber seal* for double door	ZW 195
Hinge* Door opening angle 160 degrees for Series C, FS and G 3 ea.	ZW 106P3

*Spare part included in the scope of delivery.

Transparent doors for U, A and B wall cabinets

for	Type	for	Type	for	Type	for	Type
1/00A+B	TT 100	1/2A+B	TT 12	1/5A+B	TT 15	1/3U	TT 13U
2/00A+B	TT 200	2/2A+B	TT 22	2/5A+B	TT 25	2/3U	TT 23U
3/00A+B	TT 300	3/2A+B	TT 32	3/5 A+B+U	TT 35	1/4U	TT 14U
4/00A+B	TT 400	4/2 A+B+U	TT 42	4/5 A+B+U	TT 45	2/4U	TT 24U
5/00A+B	TT 500	5/2 A+B+U	TT 52	5/5 A+B+U	TT 55	1/5U	TT 15U
						2/5U	TT 25U
1/0A+B	TT 10	1/3A+B	TT 13	1/1U	TT 11UAT		
2/0A+B	TT 20	2/3A+B	TT 23	2/1U	TT 21UAT		
3/0A+B	TT 30	3/3 A+B+U	TT 33	3/1U	TT 31UAT		
4/0A+B	TT 40	4/3 A+B+U	TT 43				
5/0A+B	TT 50	5/3 A+B+U	TT 53				
1/1A+B	TT 11	1/1A+B	TT 14	1/2U	TT 12UAT		
2/1A+B	TT 21	2/4A+B	TT 24	2/2U	TT 22UAT		
3/1A+B	TT 31	3/4 A+B+U	TT 34	3/2U	TT 32UAT		
4/1 A+B+U	TT 41	4/4 A+B+U	TT 44				
5/1 A+B+U	TT 51	5/4 A+B+U	TT 54				



floor standing cabinets for distribution board construction



Page		I_N (A)				line-up	IP 30	IP 31	IP 41	IP 43	IP 54	IP 55
2 - 2	FS floor standing cabinets	355			■						■	
2 - 2	G floor standing cabinets	355	■								■	
2 - 2	C floor standing cabinets	630	■								■	
2 - 8	WS floor standing cabinets	630			■							■
2 - 9	W floor standing cabinets	850	■									■
2 - 10	WA floor standing cabinets line-up possibility	850	■			■					■	



Applicable standards:

DIN VDE 0660 Part 500 (PTSK), VDE 0660 Part 504, DIN EN 60439-1, IEC 60439-1



Applicable standards:

DIN VDE 0660 Part 500 (PTSK), VDE 0660 Part 504, DIN EN 60439-1, IEC 60439-1

The relevant regulations for manufacturing switchgear combinations must be observed in order to adhere to protection class 1/2 (grounded / double insulated)!



floor standing cabinets for distribution board construction for indoor use

FS cabinets, double insulated

IP 54

Cabinet depth 225 mm
Cabinet height 1850 mm

floor standing cabinets

- I_N 355A
- Applicable standards DIN VDE 0660 Part 500 / 504
- Enclosure and door made of 1.5 mm sheet steel
- RAL 7035 powder-coated
- Cabinets 1 to 3 panels wide single door, right stop, cabinets 4 and 5 panels wide double door
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- Door opening angle 160 degrees
- One flange opening per panel width at the top knockouts are provided at the sides and bottom.
- **Flanges must be ordered separately**
- **Sockets must be ordered separately**
- With external fixing straps supplied at the factory
- Standard panel installation set installed at the factory
Cabinet types 1 to 5 panels wide BH 8

G cabinets, grounded

IP 54

Cabinet depth 225 mm
Cabinet height 1850 mm

floor standing cabinets

- I_N 355A
- Applicable standards DIN VDE 0660, Part 500 / 504
- Enclosure and door made of 1.5 mm sheet steel
- RAL 7035 powder-coated
- Cabinets 1 to 3 panels wide single door, right stop, cabinets 4 and 5 panels wide double door
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- Door opening angle 160 degrees
- One flange opening per panel width at the top knockouts are provided at the sides and bottom.
- **Flanges must be ordered separately**
- **Sockets must be ordered separately**
- With external fixing straps supplied at the factory
- There are two versions available from the factory
 1. Standard panel installation set installed at the factory, cabinet types 1 to 5 panels wide BH 8
 2. With mounting plate
Cabinet types 1 to 4 panels wide BH 8

C cabinets, grounded

IP 54

Cabinet depth 260 mm
Cabinet height 1850 mm

floor standing cabinets

- I_N 630A
- Applicable standards DIN VDE 0660, Part 500 / 504
- Enclosure and door made of 1.5 mm sheet steel
- RAL 7035 powder-coated
- Cabinets 1 to 3 panels wide single door, right stop, cabinets 4 and 5 panels wide double door
- Doors with espagnolette closure
- Standard closure: double bit 3 mm
- Door opening angle 160 degrees
- One flange opening per panel width at the top knockouts are provided at the sides and bottom.
- **Flanges must be ordered separately**
- **Sockets must be ordered separately**
- With external fixing straps supplied at the factory
- There are three versions available from the factory
 1. Standard panel installation set installed at the factory, cabinet types 1 to 5 panels wide BH 8
 2. With mounting plate
Cabinet types 1 to 4 panels wide BH 8
 3. Prepared for TXG modules
Cabinet types 1 to 5 panels wide BH 8



System Overview

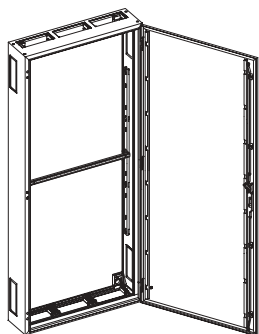
Prepared for installation of meter panels, distribution board panels, combination sets and TNF modules

(meter panels can only be installed in FS cabinets.)

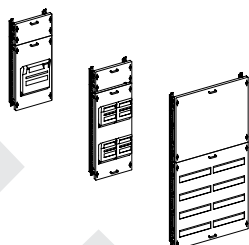
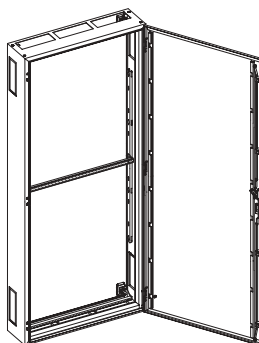
With built-in mounting plate

Prepared for installation of TXG modules (C cabinets only)

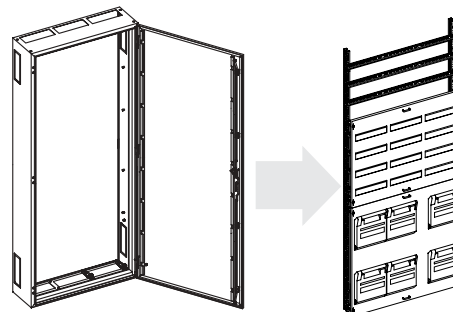
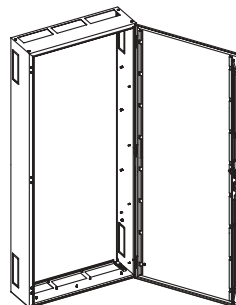
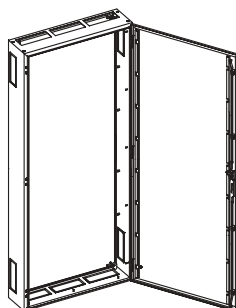
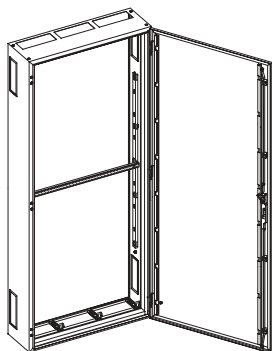
FS cabinets



G cabinets

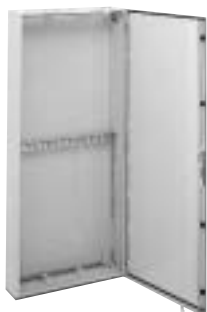


C cabinets





floor standing cabinets for distribution board construction, up to 355 A, for indoor use

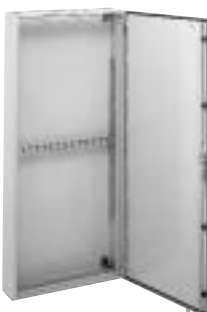


FS floor standing cabinet, prepared for installation of meter and distribution board panels with touch guard

IP 54

Applicable standards:
DIN VDE 0660 Part 500, DIN VDE 0660 Part 504,
DIN EN 60439-1
■ RAL 7035 powder-coated

Overall height	Grid spacing	Panels	PLE	Type	Dimensions HxWxD
8	12 RE				
		1	144	1/8FS	1850 x 300 x 225
		2	288	2/8FS	1850 x 550 x 225
		3	432	3/8FS	1850 x 800 x 225
		4	576	4/8FS	1850 x 1050 x 225
		5	720	5/8FS	1850 x 1300 x 225



G floor standing cabinet, with installed standard panel installation set and touch guard

IP 54

Applicable standards:
DIN VDE 0660 Part 500, DIN VDE 0660 Part 504,
DIN EN 60439-1
■ RAL 7035 powder-coated

Overall height	Grid spacing	Panels	PLE	Type	Dimensions HxWxD
8	12 RE				
		1	144	1/8G	1850 x 300 x 225
		2	288	2/8G	1850 x 550 x 225
		3	432	3/8G	1850 x 800 x 225
		4	576	4/8G	1850 x 1050 x 225
		5	720	5/8G	1850 x 1300 x 225



G floor standing cabinet, with installed mounting plate, 1.5 mm, galvanised

IP 54

Applicable standards:
DIN VDE 0660 Part 500, DIN VDE 0660 Part 504,
DIN EN 60439-1
■ RAL 7035 powder-coated

Overall height	Grid spacing	Panels	PLE	Type	Dimensions HxWxD
8	12 RE				
		1	144	1/81G	1850 x 300 x 225
		2	288	2/81G	1850 x 550 x 225
		3	432	3/81G	1850 x 800 x 225
		4	576	4/81G	1850 x 1050 x 225



floor standing cabinets for distribution board construction, up to 630 A, for indoor use



C floor standing cabinet, with installed standard panel installation set and touch guard

IP 54

Applicable standards:
DIN VDE 0660 Part 500, DIN VDE 0660 Part 504,
DIN EN 60439-1
■ RAL 7035 powder-coated

Overall height	Grid spacing	Panels	PLE	Type	Dimensions HxWxD
8	12 RE				
		1	144	1/8C	1850 x 300 x 260
		2	288	2/8C	1850 x 550 x 260
		3	432	3/8C	1850 x 800 x 260
		4	576	4/8C	1850 x 1050 x 260
		5	720	5/8C	1850 x 1300 x 260



C floor standing cabinet, with installed mounting plate, 2mm, galvanised

IP 54

Applicable standards:
DIN VDE 0660 Part 500, DIN VDE 0660 Part 504,
DIN EN 60439-1
■ RAL 7035 powder-coated

Overall height	Grid spacing	Panels	PLE	Type	Dimensions HxWxD
8	12 RE				
		1	144	1/81C	1850 x 300 x 260
		2	288	2/81C	1850 x 550 x 260
		3	432	3/81C	1850 x 800 x 260
		4	576	4/81C	1850 x 1050 x 260



C floor standing cabinet, prepared for installation of TXG modules with touch guard

IP 54

Applicable standards:
DIN VDE 0660 Part 500, DIN VDE 0660 Part 504,
DIN EN 60439-1
■ RAL 7035 powder-coated

Overall height	Grid spacing	Panels	PLE	Type	Dimensions HxWxD
8	12 RE				
		1	144	1/82C	1850 x 300 x 260
		2	288	2/82C	1850 x 550 x 260
		3	432	3/82C	1850 x 800 x 260
		4	576	4/82C	1850 x 1050 x 260
		5	720	5/82C	1850 x 1300 x 260



Accessories for FS, G and C cabinets

Lock replacement parts		
Latch plate* for double bit pin 3 mm (standard) and 5 mm		ZH 120
Operating pin double bit 3 mm* double bit 5 mm	 	ZH 130 ZH 131
Latch plate for triangular and square operating pins and for Daimler-Benz insert		ZH 121
Operating pin Triangular 7 mm Triangular 8 mm	 	ZH 132 ZH 133
 Square 6 mm Square 7 mm Square 8 mm	  	ZH 134 ZH 135 ZH 136
Daimler-Benz insert		ZH 137
Operating keys		
Double bit 3 mm* 5 mm		ZH 160 ZH 161
Triangular 7 mm 8 mm	 	ZH 157 ZH 158
Square 6 mm 7 mm 8 mm	  	ZH 162 ZH 163 ZH 164
Daimler-Benz		ZH 165
Universal key Double bit 3 mm/5 mm Triangular 8 mm Square 6 mm/8 mm		ZH 91
Latch plate for T-handle and latch handle		ZH 122
T-handle without lock, complete	 	ZH 138 ZH 139

Latch handle without lock, complete		ZH 140
with lock, complete		ZH 141
Cabinet handle closure for semi-cylinder, 45 mm, with lead sealable cap		ZH 123
Dummy insert (instead of a lock cylinder)		ZH 142
Flange IP 54		
Attention: Always order flanges as additional items! The cabinet has one flange cut-out per panel width at the top. Knockouts are provided for the side and bottom.		
Cover flange plate 1 ea. 10 ea.		ZP 55 ZP 55P10
Flange for PG screw fittings 1 x PG 42 / 2 x PG 21 1 ea. 10 ea.		ZP 56 ZP 56P10
Flange for PG screw fittings 2 x PG 29 / 4 x PG 16 / 3 x PG 13.5 / 2 x PG 11 1 ea. 10 ea.		ZP 57 ZP 57P10
Membrane flange 1 ea. 10 ea.		ZP 58 ZP 58P10
touch guard* only for FS cabinets Meter panels, 1-level Meter panels, 2-level		ZW 123 ZW 124
External attachment* 4 ea.		ZW 125P4
Espagnolette guide* with fastening material		ZH 148
Rubber seal* for double door		ZW 195
NF bracket for C, FS and G cabinets* (2 ea., with fastening material) required for fastening the centre support rail		ZW 104P2

*Spare part included in the scope of delivery

Centre support rail*

1 panel wide
2 panels wide
3 panels wide
4 panels wide
5 panels wide



ZW 41
ZW 42
ZW 43
ZW 44
ZW 45

Door grounding set 10 mm²



XZ 77

Hinge*

Door opening angle 160 degrees
for Series C, FS and G
3 ea.



ZW 106P3

Connection material

1 set for cabinet combination



ZW 190

N and PE bars

with holder
each with 23 x 10 + 4 x 16 mm²



ZK 219

C cabinets

Retaining element*

top right



ZW 290

Retaining element*

top left



ZW 291

Retaining element*

middle



ZW 292

Support element*

bottom



ZW 293

Fastening element*

for standard panels



ZW 294

Carrier rail*

for frame holder and
holding element



ZW 295

Socket

Colour RAL 7005, height 50 mm
for panel width 1

2
3
4
5



CSR 1
CSR 2
CSR 3
CSR 4
CSR 5

High socket

Front / rear side removable,
Colour RAL 7005, height 150 mm
for panel width 1

2
3
4
5

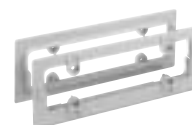


CRG 1
CRG 2
CRG 3
CRG 4
CRG 5

FS and G cabinets

Insulating frame

for the side flange knock-outs
of the FS cabinets (in case of
connection to maintain double
insulation)

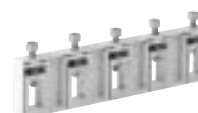


ZW 194

Busbar connector

(with insulating frame)
for FS cabinets
Cabinet - cabinet

1 set 4-pole, 250 A
1 set 5-pole, 250 A



ZW 185
ZW 186

1 set 4-pole, 355 A
1 set 5-pole, 355 A

ZW 187
ZW 188

Corner support*

1 set left and right (2 ea.)



ZW 129LR

Assembly set

For installing meter panels, also
order 1 x ZB 15 per panel width
(250 mm).



ZB 15

Socket

Colour RAL 7005, height 50 mm
for panel width 1

2
3
4
5



GSR 1
GSR 2
GSR 3
GSR 4
GSR 5

High socket

Front / rear side removable,
Colour RAL 7005, height 150 mm
for panel width 1

2
3
4
5



GRG 1
GRG 2
GRG 3
GRG 4
GRG 5

*Spare part included in the scope of delivery



floor standing cabinets for distribution board construction, for indoor use

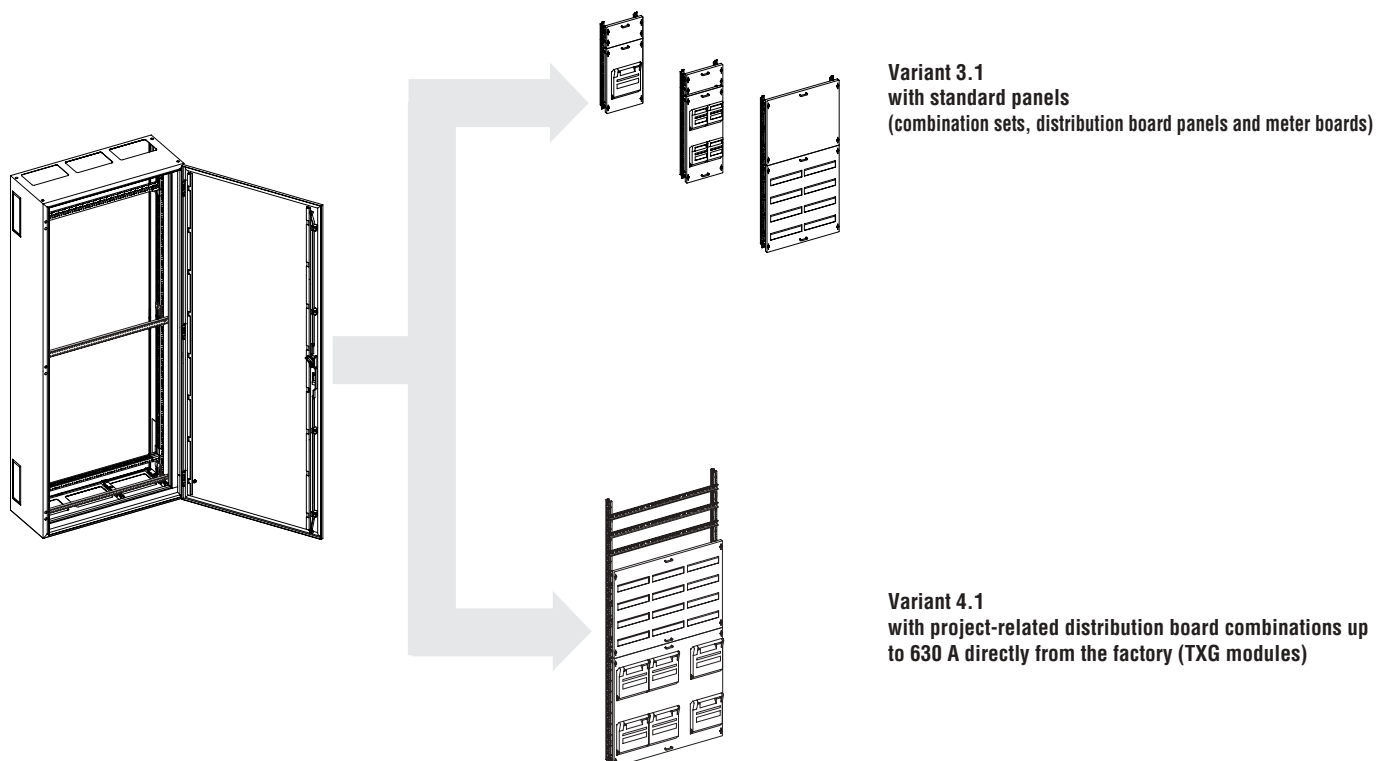
WS floor standing cabinets, double insulated

IP 55 □

floor standing cabinets in double insulated design, prepared for installation of distribution board and meter panels or modules

- I_N 630A
- Enclosure made of 1.5 mm sheet steel, with 2 mm thick door
- RAL 7035 powder-coated
- With double insulation coating
- The side flange are provided as knockouts
- The top and bottom flange openings can optionally be sealed with nipple flanges, sponge rubber flanges or cover flange plates.
- **Flanges must be ordered separately**
- Standard closure: Double bit 3 mm
- Doors: Cabinets one, two or three panels wide have a single door with right stop. Double doors with four or more panel widths
- With mounting frame, standard panel installation set and touch guard

System Overview





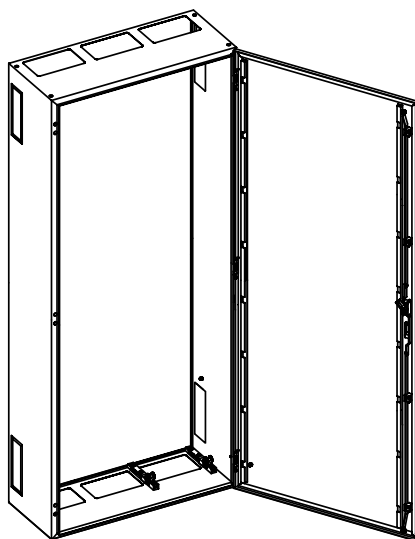
floor standing cabinets for distribution board construction, for indoor use

W floor standing cabinets, grounded

IP 55

floor standing cabinet, grounded

- I_N 850A
- Enclosure made of 1.5 mm sheet steel, with 2 mm thick door
- RAL 7035 powder-coated
- As control cabinet with mounting plate or mounting frame
- As distribution board cabinet for mounting frame plus standard panel installation set with touch guard
- As distribution board cabinet for TXG modules with touch guard
- The side flange are provided as knockouts
- The top and bottom flange openings can optionally be sealed with nipple flanges, sponge rubber flanges or cover flange plates.
- **Flanges must be ordered separately**
- Standard closure: Double bit 3 mm
- Doors: Cabinets one, two or three panels wide have a single door with right stop. Double doors with four or more panel widths





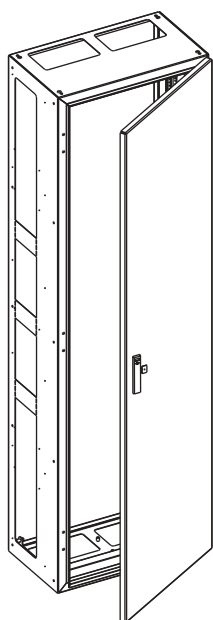
floor standing cabinets for distribution board construction, for indoor use

WA floor standing cabinet – series-connectable, grounded

IP 54

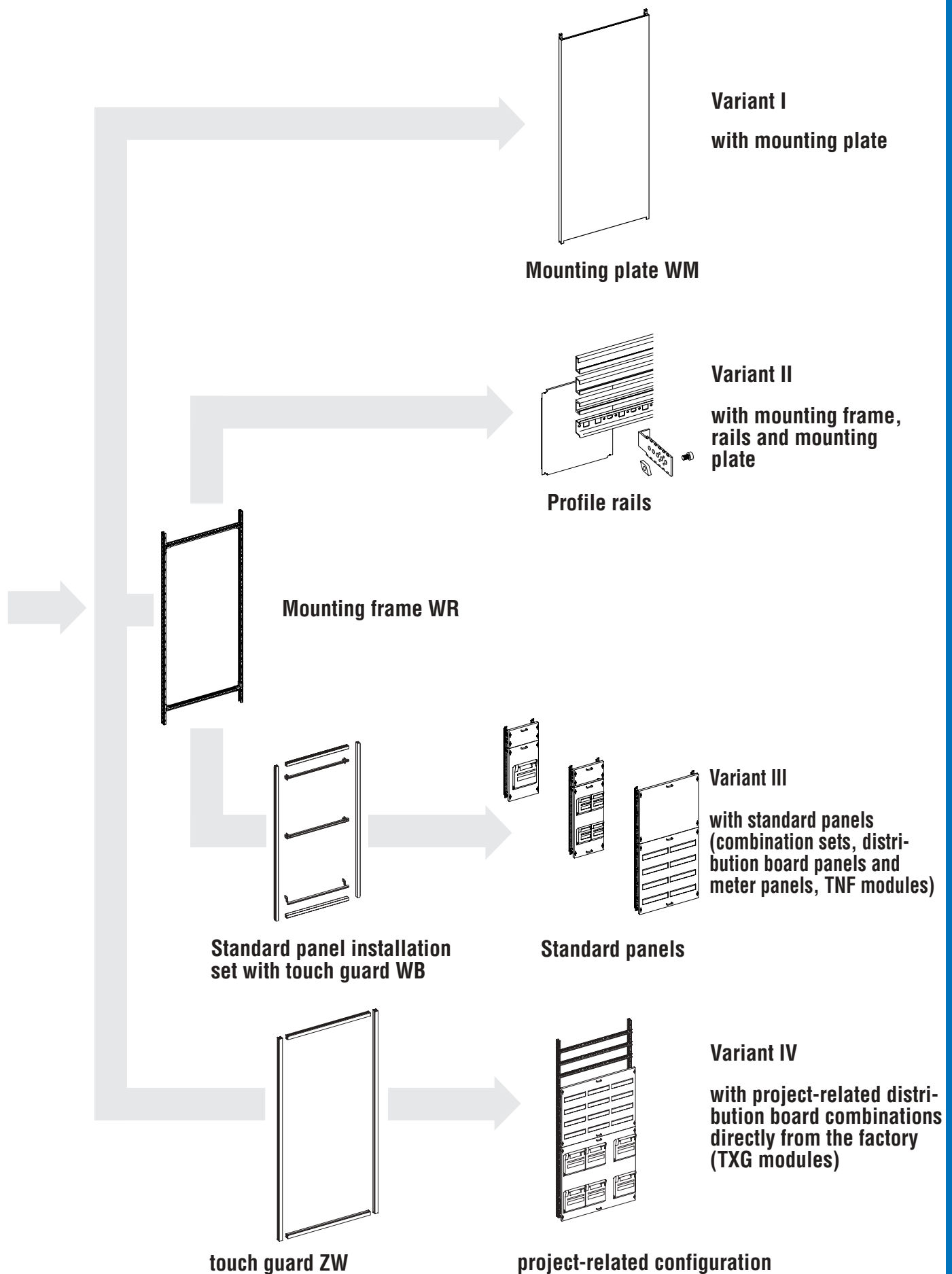
floor standing cabinet, grounded

- I_N 850A
- Enclosure made of 1.5 mm sheet steel, with 2 mm thick door
- RAL 7035 powder-coated
- As control cabinet with mounting plate or mounting frame
- As distribution board cabinet for mounting frame plus standard panel installation set with touch guard
- As distribution board cabinet for TXG modules with touch guard
- The vertical openings on both sides of the cabinet allow connecting cables and busbar systems to be moved quickly and easily.
- **Side walls must be ordered separately**
A separate cross member that can also be used provides both a secure connection for the series-connected enclosure in the rear area, as well as optimum stability during transport.
- **Connection set must be ordered separately**
- The top and bottom flange openings can optionally be closed with nipple flanges, sponge rubber flanges or cover flange plates.
- **Flanges must be ordered separately**
- Standard closure: Double bit 3 mm
- Doors: Cabinets one, two or three panels wide have a single door with right stop. Double doors with four or more panel widths.





System Overview





floor standing cabinets for distribution board construction, for indoor use



WS cabinets

IP 55

Applicable standards:

DIN VDE 0660 Part 500, DIN EN 60439-1

RAL 7035

Prepared for installation of distribution board panels and meter panels. Already fitted: mounting frame and standard panel installation set with touch guard

■ In 630A

W cabinets

IP 55

Applicable standards:

DIN VDE 0660 Part 500, DIN EN 60439-1

RAL 7035

To order: Mounting plate or frame, possibly with standard panel installation set or TXG modules with touch guard

■ In 850A

Overall height	Grid spacing	Panels	PLE	Type	Dimensions HxWxD mm	Type	Dimensions HxWxD mm
8	12 RE						
		1	144	1/8 WS	1870 x 320 x 360	1/8 W	1870 x 320 x 360
		2	288	2/8 WS	1870 x 570 x 360	2/8 W	1870 x 570 x 360
		3	432	3/8 WS	1870 x 820 x 360	3/8 W	1870 x 820 x 360
		4	576	4/8 WS	1870 x 1070 x 360	4/8 W	1870 x 1070 x 360
		5	720	5/8 WS	1870 x 1320 x 360	5/8 W	1870 x 1320 x 360
		6	864	6/8 WS	1870 x 1570 x 360	6/8 W	1870 x 1570 x 360

Accessories required

Extension with mounting plate	Variant 1	■
Extension with mounting frame	Variant 2	■
Extension with standard panels	Variant 3	■
Extension with standard panels	Variant 3.1	■
Project-specific distribution board combination	Variant 4	■
Project-specific distribution board combination	Variant 4.1	■

■ = Required accessory

□ = Accessory as needed

Accessories for floor standing cabinets for distribution board construction

Article	Type	Article	Type
Flange for W/WA and WS cabinets IP 54 / IP 55 Order 1 flange for the top and 1 for the bottom per panel width.		Flange IP 54 for side flange knockout (not for WA cabinets)	
Cover flange plate 1 ea. 10 ea.	 ZW 51 ZW 51P10	Cover flange plate 1 ea. k 10 ea.	 ZP 55 ZP 55P10
Nipple flange 2 x PG 29, 5 x PG 16, 42 x PG 13.5 1 ea. 10 ea.	 ZW 52 ZW 52P10	Flange for PG screw fittings 1 x PG 42 / 2 x PG 21 1 ea. 10 ea.	 ZP 56 ZP 56P10
Flange for PG screw fittings 4 x PG 21, 12 x PG 16 1 ea. 10 ea.	 ZW 53 ZW 53P10	Flange for PG screw fittings 2 x PG 29 / 4 x PG 16 / 3 x PG 13.5 / 2 x PG 11 1 ea. 10 ea.	 ZP 57 ZP 57P10
Sponge rubber flange 1 ea. 10 ea.	 ZW 54 ZW 54P10	Membrane flange 1 ea. 10 ea.	 ZP 58 ZP 58P10



WA cabinets

IP 54

Applicable standards:
DIN VDE 0660 Part 500, DIN EN 60439-1
RAL 7035

To order: Mounting plate or frame, possibly
with standard panel installation set or TXG modules
with touch guard

■ In 850A

Socket

Ral 7005
Front and rear side
removable
Height 130 mm



High socket

Ral 7005
Front and rear side
removable. Outer sides
with knockout.
With holders for cable
clamp rails
Height 260 mm



Side panels

1 set of side panels
left + right
(only for WA cabinets)



Connection set

for series connection
(only for WA cabinets)



Type	Dimensions HxWxD mm	Type	Type	Type	Type
1/8 WA	1870 x 320 x 360	WSR 1	WRG 1	ZW 400LR	ZW 401
2/8 WA	1870 x 570 x 360	WSR 2	WRG 2		
3/8 WA	1870 x 820 x 360	WSR 3	WRG 3		
4/8 WA	1870 x 1070 x 360	WSR 4	WRG 4		
		WSR 5	WRG 5		
		WSR 6	WRG 6		
■		□	□	□	□
■		□	□	□	□
■		□	□	□	□
		□	□		
■		□	□	□	□
		□	□		

■ = Necessary accessories

□ = Accessories as required

Article	Type
Door grounding set for W cabinets	ZL 8
	
Transport eyebolts 1 set = 4 ea. complete with attachment material	ZW 78
	
Insulating frame for the side flange knock-outs of the WS cabinets (in case of connection to maintain double insulation)	ZW 194
	

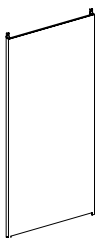
Article	Type
Cable clamp rails for high socket for WRG 1 for WRG 2 for WRG 3 for WRG 4 for WRG 5 for WRG 6	ZW 281 ZW 282 ZW 283 ZW 284 ZW 285 ZW 286
	
Clamps (cable clamps) for cable clamp rails from 22-28 mm from 40-46 mm from 64-70 mm	ZK 143 ZK 144 ZK 145
	



floor standing cabinets for distribution board construction, for indoor use

Mounting plate

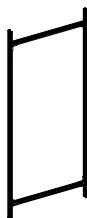
2 mm sheet steel, galvanised



Type

WM 18
WM 28
WM 38
WM 48
WM 28 + 38
WM 38 + 38

Mounting frame



Type

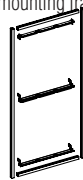
WR 18
WR 28
WR 38
WR 48
WR 28 + 38
WR 38 + 38

Standard panel

Installation set

with touch guard

Required for the installation of standard panels, in conjunction with the mounting frame



Type

WB 18
WB 28
WB 38
WB 48
WB 58
WB 68

Standard panels NF



Mounting set

For the installation of meter panels. Also order 1 x ZB 15 per panel width (250 mm).

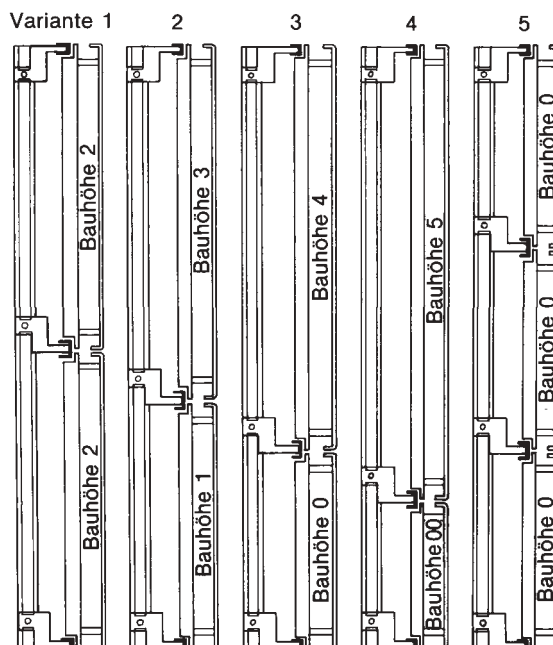
Necessary accessories

Variant 1	■				
Variant 2		■			
Variant 3		■	■	■	■
Variant 3.1				■	■
Variant 4					
Variant 4.1					

■ = Necessary accessories
□ = Accessories as required

Installation variants for standard panels on WR mounting frame

The 150 mm grid spacing of the centre support rail means that standard panels can be combined with no problems.
One standard panel centre support rail ZW 41-44 and the matching NF bracket ZW 61LR must be ordered in the case of Variant 5.

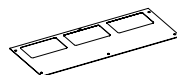




Distribution board combinations

Cover plate

A perspective view of a tall, narrow metal shelving unit. It features a vertical frame with several horizontal shelves. The lower portion of the unit includes two sets of drawers, each with a handle. The unit is shown in a perspective view, highlighting its depth and structure.

[illegible]

Accessories for floor standing cabinets for distribution board

Article	Type
touch guard Required for installing meter panels in WS cabinets.	
Single meter panel	ZW 96
Double meter panel	ZW 97

Sheet steel partitions

ZW 169
ZW 170
ZW 171
ZW 172
ZW 173
ZW 174
ZW 175



Accessories for W, WA and WS floor standing cabinets

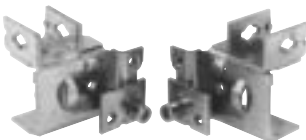
Article	Type	
Lock replacement parts		
Latch plate* for double bit pin 3 mm (standard) and 5 mm		ZH 120
Operating pin double bit 3 mm* double bit 5 mm	 	ZH 130 ZH 131
Latch plate for triangular and square operating pins and for Daimler-Benz insert		ZH 121
Operating pin Triangular 7 mm Triangular 8 mm	 	ZH 132 ZH 133
Square 6 mm Square 7 mm Square 8 mm	  	ZH 134 ZH 135 ZH 136
Daimler-Benz insert		ZH 137
Operating key		
Double bit 3 mm* 5 mm		ZH 160 ZH 161
Triangular 7 mm 8 mm	 	ZH 157 ZH 158
Square 6 mm 7 mm 8 mm	  	ZH 162 ZH 163 ZH 164
Daimler-Benz		ZH 165
Universal key Double bit 3 mm/5 mm Triangular 8 mm Square 6 mm/8 mm		ZH 91
Latch plate for T-handle and latch handle		ZH 122
T-handle without lock, complete		ZH 138
with lock, complete		ZH 139

Article	Type	
Latch handle		
without lock, complete		ZH 140
with lock, complete		ZH 141
Cabinet handle closure for semi-cylinder, 45 mm, with lead sealable cap		
		ZH 123
Dummy insert (instead of a lock cylinder)		
		ZH 142

*Spare part included in the scope of delivery



Accessories for W, WA and WS floor standing cabinets

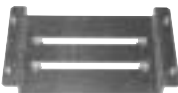
Article	Type
Spare parts for the NF installation set	
NF bracket (2 ea. = 1 x left + 1 x right with attachment material)	ZW 61LR
	
Centre support rail 1 panel wide 2 panels wide 3 panels wide 4 panels wide	ZW 41 ZW 42 ZW 43 ZW 44
	
Support rail top and bottom 1 panel wide 2 panels wide 3 panels wide 4 panels wide 5 panels wide	ZW 50 ZW 46 ZW 47 ZW 48 ZW 49
	
Door grounding set for W cabinets	ZL 8
	
Rubber seal* for double door	ZW 128
	
Cylinder screw with hexagon socket for ZW 70 10 ea.	ZX 262P10
Carrier rail	ZW 70
	
Mounting pin	ZW 71
	
Fastening elements 4 ea., Bh 2 + 4, 2 x left + 2 x right (with ZW 71) for distribution boards and TNF modules	ZW 72LR
	
Support elements, bottom 2 ea., 1 x left, 1 x right (with ZW 71) for mounting plate and mounting frame bottom left, right or centre for 2 WR frames	ZW 73LR
	
Retaining elements, top	ZW 74LR
2 ea., 1 x left, 1 x right (with ZW 71) for mounting plate and mounting frame top left, right	

Article	Type
Retaining element, top top centre, for 2 WR frames (with ZW 71)	ZW 75
	
Mounting plate support for W cabinet	ZW 77
	



Extension parts for fitting on the WR mounting frame

Accessories

Article	Type
Lowering bracket for moving profile rails and mounting plate forward and back in 15 mm grid spacing 2 ea. 100 ea.	 ZW 60P2 ZW 60P100
Lowering bracket for steplessly moving profile rails and mounting plate forward and back. 2 ea. 40 ea.	 ZW 142P2 ZW 142P40
Insertion nuts for WR mounting frame M 8 for mounting frame 1 ea. 50 ea.	 ZW 62 ZW 62P50
Sliding nut M 8 (pressure-sensitive) 10 ea.	 ZX 246P10
Cross member for isolator with attachment screw and captive nuts for	
2 isolators Size 00, 1 panel wide 1 ea. 10 ea.	 ZX 31 ZX 31P10
4 isolators Size 00, 2 panels wide 1 ea. 10 ea.	 ZX 34 ZX 34P10
6 isolators Size 00, 3 panels wide 1 ea. 10 ea.	 ZW 162 ZW 162P10
1 isolator Size 1 or 2, 1 panel wide, 1 ea.	 ZH 235
2 isolators Size 1 or 2, 2 panels wide 1 ea. 10 ea.	 ZW 159 ZW 159P10
3 isolators Size 1 or 2, 3 panels wide 1 ea. 10 ea.	ZW 160 ZW 160P10
Captive nut 10 ea. for isolator cross members (ZX 31, ZX 34 and ZW 162) M 6 (ZH 235, ZW 159, ZW 160) M 8	 ZX 297P10 ZX 298P10

Article	for	Type	
Mounting plates			
for fitting on deep mounting brackets ZW 60P2, sheet steel 2 mm galvanised 1 panel wide:			
	H x W		
1 grid spacing 116	x 196 mm	 ZW 365 ZW 338 ZW 341 ZW 344 ZW 362	
2 grid spacing 266	x 196 mm		
3 grid spacing 416	x 196 mm		
4 grid spacing 566	x 196 mm		
5 grid spacing 716	x 196 mm		
2 panels wide:			
	H x W		
1 grid spacing 116	x 446 mm	ZW 336 ZW 339 ZW 342 ZW 345 ZW 363	
2 grid spacing 266	x 446 mm		
3 grid spacing 416	x 446 mm		
4 grid spacing 566	x 446 mm		
5 grid spacing 716	x 446 mm		
3 panels wide:			
	H x W		
1 grid spacing 116	x 696 mm	ZW 337 ZW 340 ZW 343 ZW 346 ZW 364	
2 grid spacing 266	x 696 mm		
3 grid spacing 416	x 696 mm		
4 grid spacing 566	x 696 mm		
5 grid spacing 716	x 696 mm		
Insertion nuts for profile rails			
10 ea.			
	profile		
20 x 11 x 4 M 5	1-2	 ZX 256P10 ZX 248P10 ZX 249P10 ZX 250P10	
20 x 14 x 4 M 5	1-2-4-5-6		
20 x 14 x 4 M 6	1-2-4-5-6		
20 x 14 x 4 M 8	1-2-4-5-6		
Sliding nuts for profile rails			
10 ea.			
	profile		
20 x 20 x 4 M 3	1-2-4-5-6	 ZX 226P10 ZX 227P10 ZX 228P10 ZX 229P10 ZX 230P10 ZX 231P10 ZX 232P10 ZX 233P10 ZX 234P10	
20 x 20 x 4 M 4	1-2-4-5-6		
20 x 20 x 4 M 5	1-2-4-5-6		
20 x 20 x 4 M 6	1-2-4-5-6		
20 x 20 x 4 M 8	1-2-4-5-6		
25 x 25 x 8 M 6	profile 3		
25 x 25 x 8 M 8	profile 3		
25 x 25 x 10 M 10	profile 3		
25 x 25 x 10 M 12	profile 3		
Cylinder screws for rail mounting			
with hexagon socket 10 ea.			
M 5 x 10		ZX 260P10 ZX 261P10 ZX 262P10 ZX 263P10 ZX 264P10 ZX 265P10	
M 6 x 20			
M 8 x 12			
M 8 x 16			
M 8 x 20			
M 8 x 30			
Clamps (cable clamps)			
for cable clamp rails, profile no. 10 from 22-28 mm from 40-46 mm from 64-70 mm			
		 ZK 143 ZK 144 ZK 145	



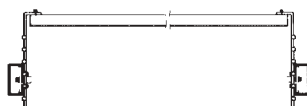
Width rails

Width rails E and F

WR mounting frame with
width rail E



WR mounting frame with
lowering bracket, ZW 60LR
width rail F



Width rail E, width (mm)	1 panel wide 244 mm	2 panels wide 494	3 panels wide 744	4 panels wide 994
Width rail F, width (mm)	196 mm	446	696	946

Profile No. 1

25 x 14 mm
Fastening hole Ø 6.2 mm



Width rail E				
Type	ZW 11	ZW 12	ZW 13	ZW 14
Width rail F				
Type	ZW 223	ZW 224	ZW 225	ZW 226

Profile No. 2

25 x 20 mm
Fastening hole Ø 6.2 mm



Width rail E				
Type	ZW 207	ZW 215	ZW 216	ZW 217
Width rail F				
Type	ZW 228	ZW 229	ZW 230	ZW 231

Profile No. 3

32 x 25 mm
Fastening hole Ø 8.2 mm



Width rail E				
Type	ZW 16	ZW 17	ZW 18	ZW 19
Width rail F				
Type	ZW 233	ZW 234	ZW 235	ZW 236

Profile No. 8

35 x 15 mm, galvanised sheet steel
Fastening hole Ø 6.2 mm



Width rail E				
Type	ED 1	ED 2	ED 3	ED 4
Width rail F				
Type	ED 51	ED 52	ED 53	ED 54

Profile No. 9

32.5 x 15 mm, galvanised sheet steel
Fastening hole Ø 6.2 mm



Width rail E				
Type	–	ZW 7	ZW 8	ZW 9
Width rail F				
Type	–	ZW 244	ZW 245	ZW 246

Profile No. 10

35 x 19 mm, galvanised sheet steel
Fastening hole Ø 6.2 mm

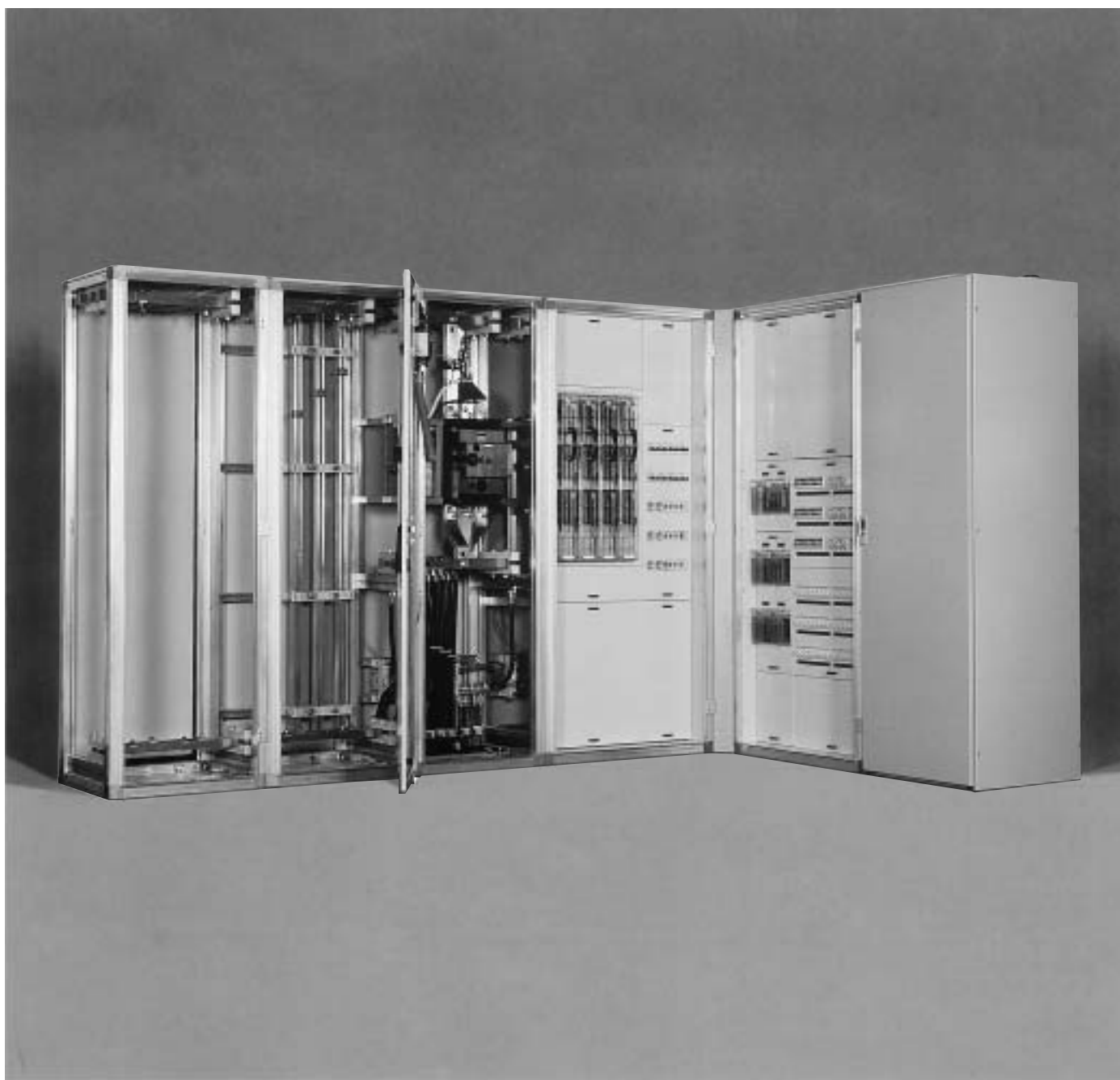


Width rail E				
Type	ZW 219	ZW 220	ZW 221	ZW 222
Width rail F				
Type	ZW 248	ZW 249	ZW 250	ZW 251

EUR



Switchgear cabinets



Page	I_N (A)					IP 30	IP 31	IP 41	IP 43	IP 54	IP 55
3 - 2 XA cabinets grounded	3500										
3 - 2 XS cabinets double insulated in conjunction with module system panels or standard panels	1700										
3 - 25 Corner sections for XA cabinets											

Applicable standards:
DIN VDE 0660 Part 500 (TSK/PTSK), DIN 43660, DIN 43870, DIN EN 604 39-1

The relevant regulations for manufacturing switchgear combinations must be observed in order to conform to protection class 1/2 (grounded / double insulated)!



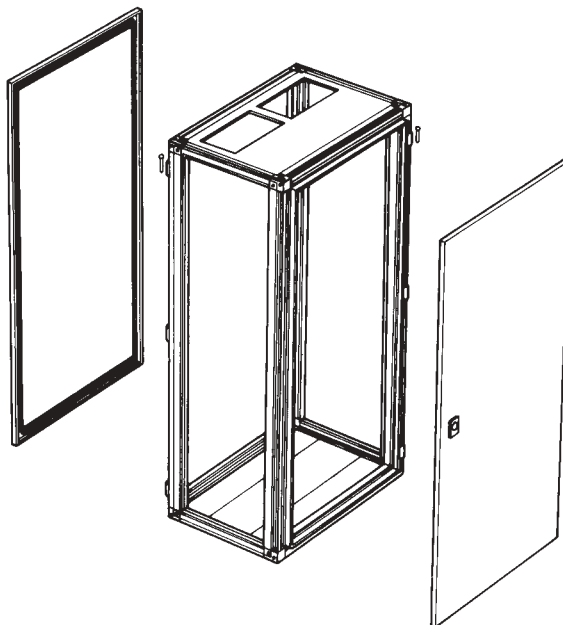
System Overview

XA



The switchgear cabinet
Series XA aluminium, grounded.

IP 54



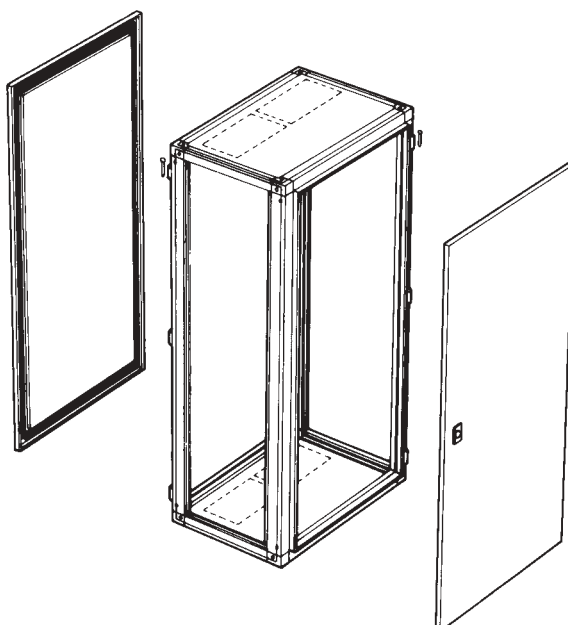
2 switchgear cabinets + 2 extension systems

XS

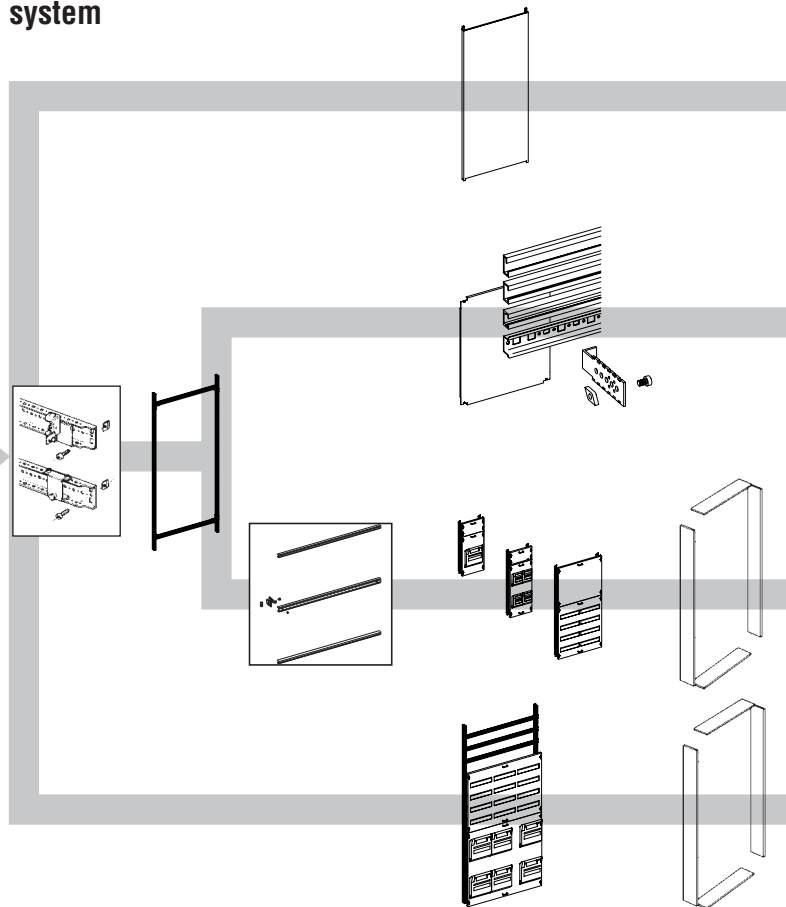


The switchgear cabinet
Series XS, double insulated

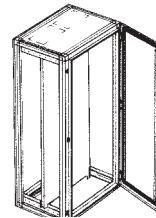
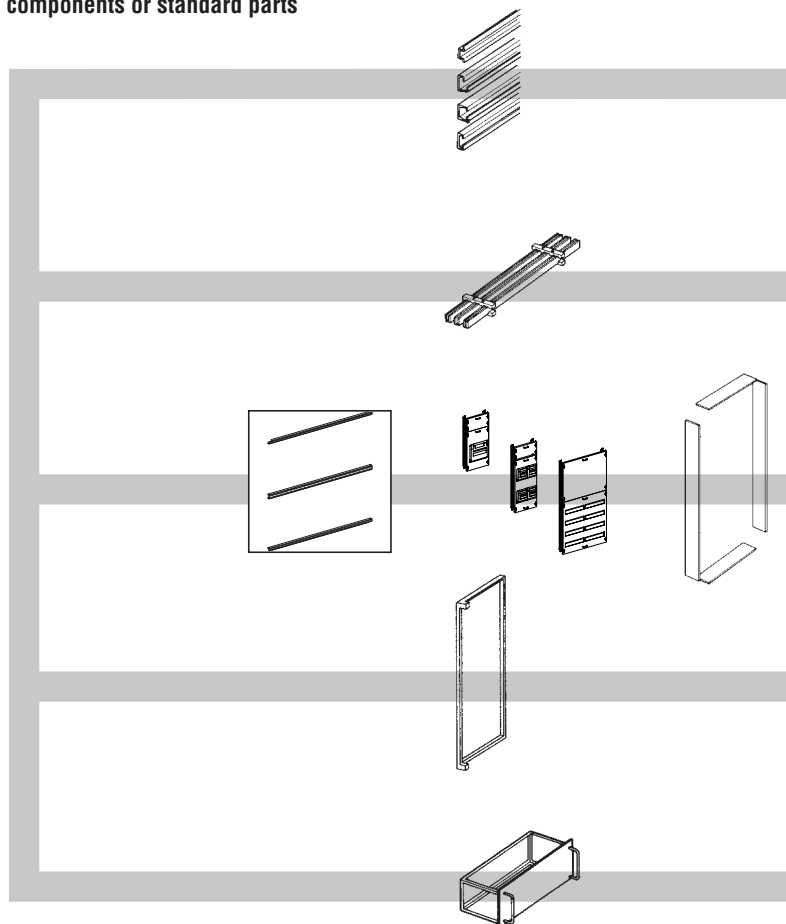
IP 54



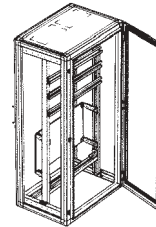
**The Striebel & John
fast assembly
system**



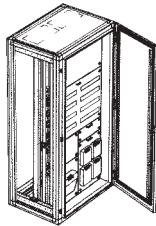
**Free extension
with Striebel & John
components or standard parts**



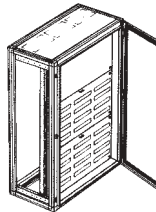
Extension with
mounting plate



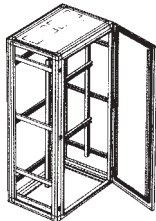
Extension with mounting
frame, rails and
mounting plate



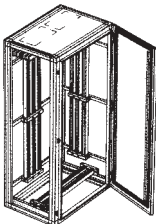
Extension with EDF com-
bination sets, distribution
board panels and meter
panels



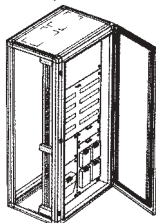
Project-related extension
with module system
panels directly from the
factory



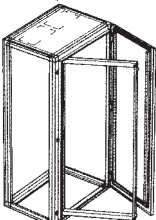
Extension with
profile rails



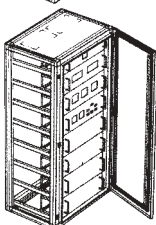
Extension with
busbar systems
up to 3500 A



Extension with EDF com-
bination sets, distributi-
on board panels and
meter panels



Extension with
swing frames



Extension with
19" technique



System Overview

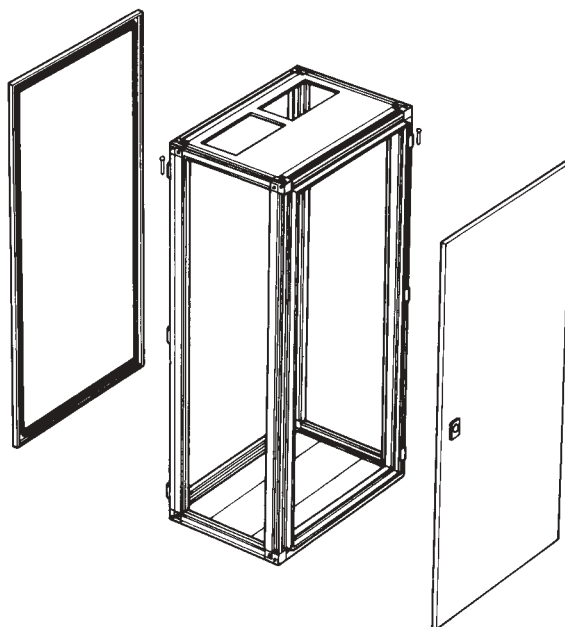
Fast assembly system

XA



The switchgear cabinet
Series XA aluminium, grounded.

IP 54

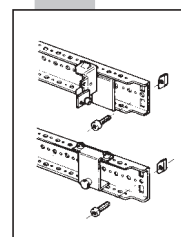
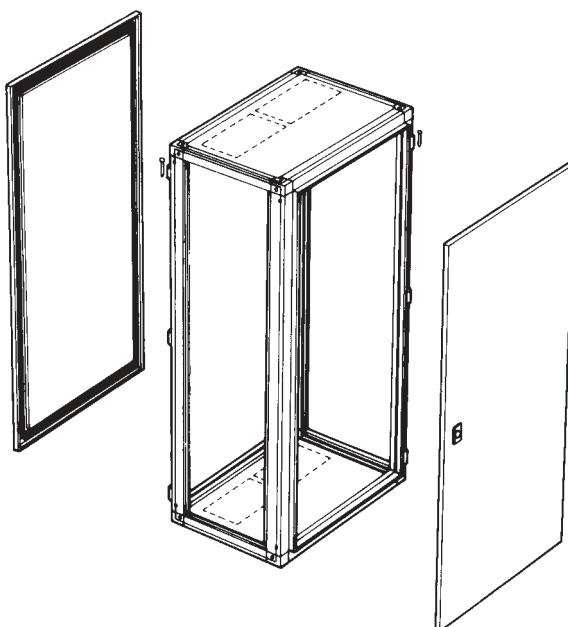


XS

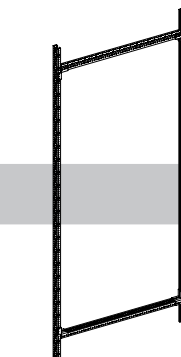


The switchgear cabinet
Series XS, double insulated.

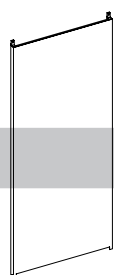
IP 54



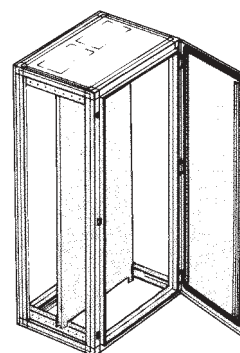
Extension set XU



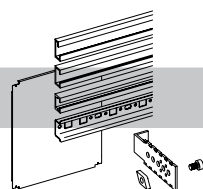
Mounting frame
WR



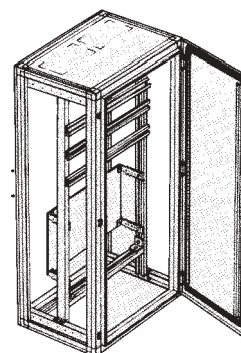
**Mounting plate
WM**



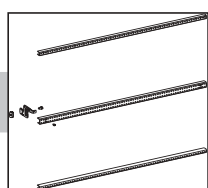
**Variant I
with mounting
plate**



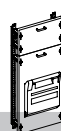
**Mounting plate
C rails
Retaining elements**



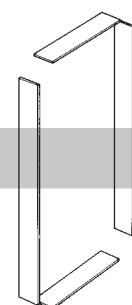
**Variant II
with mounting frame,
rails and mounting
plate**



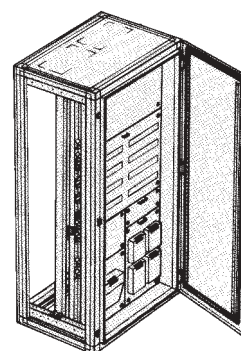
**Standard panel
mounting set XE**



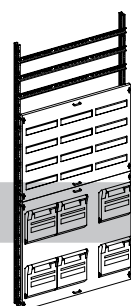
EDF panels



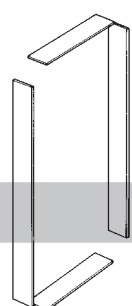
**Touch
guard XB**



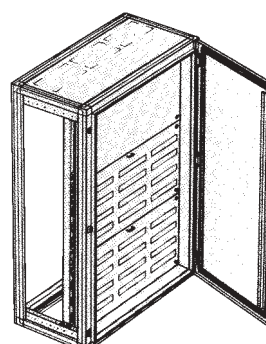
**Variant III
with standard panels
(combination sets,
distribution board
panels and meter
panels)**



**Project-related extension
with module system panels**



**Touch
guard XB**



**Variant IV
with project-related
distribution board com-
binations directly from
the factory (modules)**



XA/XS cabinets

Overall height 8 = 1900 mm, for indoor use



XA cabinet

IP 54

grounded

Empty cabinet with door, backplate,
top cover plate, bottom plate
Colour: RAL 7032
Flanges must be ordered
separately.

XS cabinet

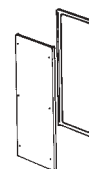
IP 54

double insulated

Empty cabinet with door, backplate,
top cover plate, bottom plate
Colour: RAL 7032
Flanges must be ordered
separately.

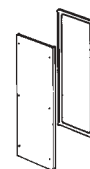
XA side
walls

2 ea.



XS side
walls

2 ea.



Overall height	grid spacing	Panels	PLE	Type	Width in mm	Type	Width in mm	Type	Type
8	12 RE								
 T 300 mm H 1900 mm		1	144	1/8 XA3	350			XW 83P2	
		2	288	2/8 XA3	600				
		3	432	3/8 XA3	850				
		4	576	4/8 XA3	1100				
		5	720	5/8 XA3	1350				
 T 400 mm H 1900 mm		1	144	1/8 XA4	350			XW 84P2	XW 84SP2
		2	288	2/8 XA4	600	2/8 XS4	600		
		3	432	3/8 XA4	850	3/8 XS4	850		
		4	576	4/8 XA4	1100	4/8 XS4	1100		
		5	720	5/8 XA4	1350				
 T 600 mm H 1900 mm		1	144	1/8 XA6	350			XW 86P2	XW 86SP2
		2	288	2/8 XA6	600	2/8 XS6	600		
		3	432	3/8 XA6	850	3/8 XS6	850		
		4	576	4/8 XA6	1100	4/8 XS6	1100		
		5	720	5/8 XA6	1350				
 T 800 mm H 1900 mm		2	288	2/8 XA8	600			XW 88P2	
		3	432	3/8 XA8	850				
		4	576	4/8 XA8	1100				
		5	720	5/8 XA8	1350				

Necessary accessories

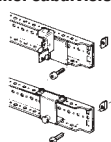
Construction with mounting plate	Variant 1	☐	☐
Construction with mounting frame	Variant 2	☐	☐
Construction with EDF panels from cabinet depth 400 mm	Variant 3	☐	☐
Project-related construction with module system panels	Variant 4	☐	☐
Construction with EDF panels, cabinet depth 300 mm, not suitable for meter panels	Variant 3	☐	

■ = Necessary accessories

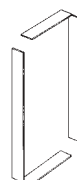
□ = Accessories as required

Mounting set XU	Mounting plate WM	Mounting frame WR	Standard panel mounting set XE/XM	Touch guard XB	Socket XSR	Routing socket XRG
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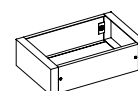
Standard construction for mounting plate and mounting frame, refer to the table below depending on panel subdivision.



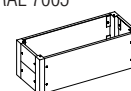
2 mm sheet steel, galvanised



Front and rear walls removable
Height 100 mm
RAL 7005



Front wall completely removable and side walls split in two
Height 300 mm
RAL 7005



Type	Type	Type	Type	Type	Type	Type
XU 31	WM 18	WR 18	XM 1	XB 183	XSR 13	XRG 13
XU 31	WM 28	WR 28	XM 2	XB 283	XSR 23	XRG 23
XU 31	WM 38	WR 38	XM 3	XB 383	XSR 33	XRG 33
XU 31	WM 48	WR 48	XM 4	XB 483	XSR 43	XRG 43
XU 32	WM 28 + WM 38	WR 28 + WR 38	XM 5	XB 583	XSR 53	XRG 53
XU 41	WM 18	WR 18	XE 1	XB 18	XSR 14	XRG 14
XU 41	WM 28	WR 28	XE 2	XB 28	XSR 24	XRG 24
XU 41	WM 38	WR 38	XE 3	XB 38	XSR 34	XRG 34
XU 41	WM 48	WR 48	XE 4	XB 48	XSR 44	XRG 44
XU 42	WM 28 + WM 38	WR 28 + WR 38	XE 2 + XE 3	XB 58	XSR 54	XRG 54
XU 61	WM 18	WR 18	XE 1	XB 18	XSR 16	XRG 16
XU 61	WM 28	WR 28	XE 2	XB 28	XSR 26	XRG 26
XU 61	WM 38	WR 38	XE 3	XB 38	XSR 36	XRG 36
XU 61	WM 48	WR 48	XE 4	XB 48	XSR 46	XRG 46
XU 62	WM 28 + WM 38	WR 28 + WR 38	XE 2 + XE 3	XB 58	XSR 56	XRG 56
XU 81	WM 28	WR 28	XE 2	XB 28	XSR 28	XRG 28
XU 81	WM 38	WR 38	XE 3	XB 38	XSR 38	XRG 38
XU 81	WM 48	WR 48	XE 4	XB 48	XSR 48	XRG 48
XU 82	WM 28 + WM 38	WR 28 + WR 38	XE 2 + XE 3	XB 58	XSR 58	XRG 58

■	■				□	□
■		■			□	□
■		■	■	■	□	□
■				■	□	□
		■	■		□	□

Construction variants for mounting set XU

Panel combination	Cabinet	Cabinet depth 300 mm	400 mm	600 mm	800 mm
One mounting frame (module construction system panel) or mounting plate installed in the cabinet.	XA/XS	XU 31	XU 41	XU 61	XU 81
Two mounting frames (module construction system panel) or mounting plates installed next to each other in the cabinet.	XA XS	XU 32	XU 42 XU 43	XU 62 XU 63	XU 82



XA/XS cabinets

Overall height 10 = 2200 mm, for indoor use



XA cabinet

IP 54

grounded

Empty cabinet with door, backplate, top cover plate, bottom plate

Colour: RAL 7032

Flanges must be ordered separately.

XS cabinet

IP 54

double insulated

Empty cabinet with door, backplate, top cover plate, bottom plate

Colour: RAL 7032

Flanges must be ordered separately.

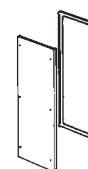
XA side walls

2 ea.



XS side walls

2 ea.



Overall height	grid spacing	Panels	PLE	Type	Width in mm	Type	Width in mm	Type	Type
10	14 RE								
H 2200 mm		1	144	1/10 XA3	350			XW 103P2	
		2	336	2/10 XA3	600				
		3	504	3/10 XA3	850				
		4	672	4/10 XA3	1100				
		5	840	5/10 XA3	1350				
H 2200 mm		1	144	1/10 XA4	350			XW 104P2	XW 104SP2
		2	336	2/10 XA4	600	2/10 XS4	600		
		3	504	3/10 XA4	850	3/10 XS4	850		
		4	672	4/10 XA4	1100	4/10 XS4	1100		
		5	840	5/10 XA4	1350				
H 2200 mm		1	144	1/10 XA6	350			XW 106P2	XW 106SP2
		2	336	2/10 XA6	600	2/10 XS6	600		
		3	504	3/10 XA6	850	3/10 XS6	850		
		4	672	4/10 XA6	1100	4/10 XS6	1100		
		5	840	5/10 XA6	1350				
H 2200 mm		2	336	2/10 XA8	600			XW 108P2	
		3	504	3/10 XA8	850				
		4	672	4/10 XA8	1100				
		5	840	5/10 XA8	1350				

Necessary accessories

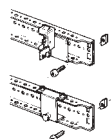
Construction with mounting plate	Variant 1	☐	☐
Construction with mounting frame	Variant 2	☐	☐
Construction with EDF panels from cabinet depth 400 mm	Variant 3	☐	☐
Project-related construction with module system panels	Variant 4	☐	☐
Construction with EDF panels, cabinet depth 300 mm, not suitable for meter panels	Variant 3	☐	

■ = Necessary accessories

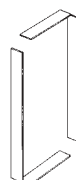
□ = Accessories as required

Mounting set XU	Mounting plate WM	Mounting frame WR	Standard panel mounting set XE/XM	Touch guard XB	Socket frame XSR	Routing socket XRG
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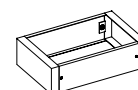
Standard construction for mounting plate and mounting frame, **refer to the table below depending on panel subdivision.**



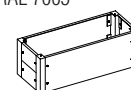
2 mm sheet steel, galvanised



Front and rear walls removable
Height 100 mm
RAL 7005



Front wall completely removable and narrow side walls split in two
Height 300 mm
RAL 7005



Type	Type	Type	Type	Type	Type	Type
XU 31	WM 110	WR 110	XM 1	XB 113	XSR 13	XRG 13
XU 31	WM 210	WR 210	XM 2	XB 213	XSR 23	XRG 23
XU 31	WM 310	WR 310	XM 3	XB 313	XSR 33	XRG 33
XU 31	WM 410	WR 410	XM 4	XB 413	XSR 43	XRG 43
XU 32	WM 210 + WM 310	WR 210 + WR 310	XM 5	XB 513	XSR 53	XRG 53
XU 41	WM 110	WR 110	XE 1	XB 110	XSR 14	XRG 14
XU 41	WM 210	WR 210	XE 2	XB 210	XSR 24	XRG 24
XU 41	WM 310	WR 310	XE 3	XB 310	XSR 34	XRG 34
XU 41	WM 410	WR 410	XE 4	XB 410	XSR 44	XRG 44
XU 42	WM 210 + WM 310	WR 210 + WR 310	XE 2 + XE 3	XB 510	XSR 54	XRG 54
XU 61	WM 110	WR 110	XE 1	XB 110	XSR 16	XRG 16
XU 61	WM 210	WR 210	XE 2	XB 210	XSR 26	XRG 26
XU 61	WM 310	WR 310	XE 3	XB 310	XSR 36	XRG 36
XU 61	WM 410	WR 410	XE 4	XB 410	XSR 46	XRG 46
XU 62	WM 210 + WM 310	WR 210 + WR 310	XE 2 + XE 3	XB 510	XSR 56	XRG 56
XU 81	WM 210	WR 210	XE 2	XB 210	XSR 28	XRG 28
XU 81	WM 310	WR 310	XE 3	XB 310	XSR 38	XRG 38
XU 81	WM 410	WR 410	XE 4	XB 410	XSR 48	XRG 48
XU 82	WM 210 + WM 310	WR 210 + WR 310	XE 2 + XE 3	XB 510	XSR 58	XRG 58

■	■				□	□
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■		■	■	■	□	□
■				■	□	□
		■	■		□	□

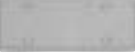
Construction variants for mounting set XU

Panel combination	Cabinet	Cabinet depth 300 mm	400 mm	600 mm	800 mm
One mounting frame (module construction system panel) or mounting plate installed in the cabinet.	XA/XS	XU 31	XU 41	XU 61	XU 81
Two mounting frames (module construction system panel) or mounting plates installed next to each other in the cabinet.	XA XS	XU 32	XU 42 XU 43	XU 62 XU 63	XU 82



Accessories for XA and XS switchgear cabinets

Cabinet parts

Article	Type
Flanges for Series XA	
300 mm deep cabinets Order one flange for the top for each panel width	
Closing flange 1 ea. 10 ea.	 ZP 55 ZP 55P10
Flange for PG screw couplings 1 x PG 42 / 2 x PG 21 1 ea. 10 ea.	 ZP 56 ZP 56P10
Flange for PG screw couplings 2 x PG 29 / 4 x PG 16 / 3 x PG 13.5 / 2 x PG 11 1 ea. 10 ea.	 ZP 57 ZP 57P10
Diaphragm flange 1 ea. 10 ea.	 ZP 58 ZP 58P10
Cabinets from 400 mm depth Order one flange for the top for each panel width	
Closing flange 1 ea. 10 ea.	 ZW 51 ZW 51P10
Nipple flange 2 x PG 29, 5 x PG 16, 42 x PG 13.5 1 ea. 10 ea.	 ZW 52 ZW 52P10
Flange for PG screw couplings 4 x PG 21, 12 x PG 13.5 1 ea. 10 ea.	 ZW 53 ZW 53P10
Sponge rubber flange 1 ea. 10 ea.	 ZW 54 ZW 54P10
Sponge rubber sinus flange Not for 300 mm deep cabinets. For series XA (bottom plate) 2 panels wide 3 panels wide 4 panels wide (2-part 493 + 493 mm) 5 panels wide (2-part 493 + 743 mm)	 ZW 55 ZW 56 ZW 57 ZW 58
Flanges for Series XS	
One flange can be installed at the top and bottom per panel width (after breaking out the flange knockout)	
Closing flange	ZW 66
Nipple flange 2 x PG 29, 5 x PG 16, 42 x PG 13.5	ZW 67
Flange for PG screw couplings 4 x PG 21, 12 x PG 16	ZW 68
Sponge rubber flange	ZW 69

Article	Type
Other cabinet parts	
Connection set for mounting side by side (with sealing strip) Series XA to Series XA Series XS to Series XS	 XZ 76 XZ 55
Connection set for mounting side by side (with sealing strip) Series XA to Series XS	 XZ 75
Door grounding set 10 mm ²	 XZ 77
PE connecting cable 1 pack = 4 ea., 10 mm ²	 XZ 74P4
Lifting eyes M 12	
for Series XA 4 ea.	 XZ 73P4
for Series XS 4 ea. complete with fastening material	 XZ 72P4
Partitions (cabinet – cabinet)	
for Series XA (sheet steel design, galvanised, 1.5 mm)	
Overall height 8 Depth 300 mm Depth 400 mm Depth 600 mm Depth 800 mm	XZ 78 XZ 60 XZ 61 XZ 62
Overall height 10 Depth 300 mm Depth 400 mm Depth 600 mm Depth 800 mm	XZ 79 XZ 63 XZ 64 XZ 65
for Series XS (insulating material, 2 mm)	
Overall height 8 Depth 400 mm Depth 600 mm	XZ 66 XZ 67
Overall height 10 Depth 400 mm Depth 600 mm	XZ 69 XZ 70
Cable clamp rails for routing socket	
for XRG2 for XRG3 for XRG4 for XRG5	 XZ 232 XZ 233 XZ 234 XZ 235

Lock replacement parts for safety closure system

Article		Type
Escutcheon for two-way operating mandrel 3 mm (standard) and 5 mm		ZH 120
Operating mandrel Two-way 3 mm Two-way 5 mm		ZH 130 ZH 131
Escutcheon for triangular and square operating mandrels and for Daimler-Benz insert		ZH 121
Operating mandrel Triangular 7 mm Triangular 8 mm Square 6 mm Square 7 mm Square 8 mm Daimler-Benz		ZH 132 ZH 133 ZH 134 ZH 135 ZH 136 ZH 137
Escutcheon for T-handle and latch handle		ZH 122
T-handle without lock, complete with lock, complete		ZH 138 ZH 139
Latch handle without lock, complete with lock, complete		ZH 140 ZH 141

Article		Type
Cabinet handle closure for semi-cylinder, 45 mm, with lead-sealable cap		ZH 123
Dummy insert (instead of a lock cylinder)		ZH 142
Universal key Two-way 3 mm/5 mm Triangular 8 mm Square 6 mm/8 mm		ZH 91
Operating key Two-way 3 mm 5 mm Triangular 7 mm 8 mm Square 6 mm 7 mm 8 mm Daimler-Benz		ZH 160 ZH 161 ZH 157 ZH 158 ZH 162 ZH 163 ZH 164 ZH 165



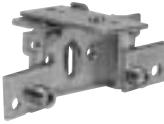
Spare parts for XA and XS cabinets

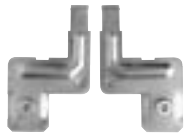
Cabinet parts

Article	Type
Bottom plate	
(1 set = 3 parts) for Series XA:	
Depth 400	
2 panels wide (520 mm)	XZ 80
3 panels wide (770 mm)	XZ 81
4 panels wide (2 parts, 493 + 493 mm)	XZ 82
5 panels wide (2 parts, 493 + 743 mm)	XZ 83
Depth 600	
2 panels wide (520 mm)	XZ 84
3 panels wide (770 mm)	XZ 85
4 panels wide (2 parts, 493 + 493 mm)	XZ 86
5 panels wide (2 parts, 493 + 743 mm)	XZ 87
Depth 800	
2 panels wide (520 mm)	XZ 88
3 panels wide (770 mm)	XZ 89
4 panels wide (2 parts, 493 + 493 mm)	XZ 90
5 panels wide (2 parts, 493 + 743 mm)	XZ 91
Holder	XZ 101P4
for bottom plate, 4 ea.	
	
Bottom plate	
can also be used as cover plate for Series XS:	
Depth 400	
2 panels wide (498 mm)	XZ 92
3 panels wide (748 mm)	XZ 93
4 panels wide (998 mm)	XZ 94
Depth 600	
2 panels wide (498 mm)	XZ 95
3 panels wide (748 mm)	XZ 96
4 panels wide (998 mm)	XZ 97
Lock	XZ 102P4
for bottom plate Series XS 4 ea. with cap	
	
Other cabinet parts	
Protective cap	XZ 180
for XS on the corner connector for maintaining the protective insulation	
	
Sealing profile	XZ 103P8
for cabinet corners for Series XA and XS 8 ea.	
	
Sheet metal screw	ZX 267P10
10 ea., 4.8 x 19 for fastened the cover plate on XA cabinets	
Tallow-drop screw	ZX 271P10
10 ea., M5 x 16 for mounting the rear wall on 5 panel-wide XA cabinets	

Article	Type
Door parts	
Hinge	XZ 104P3
Door opening angle 130 degrees for Series XA and XS 3 ea. with fastening material and hinge pin	
	
Hinge*	XZ 105P3
Door opening angle 180 degrees for Series XA and XS (only when cabinets are set up individually). 3 ea. with fastening material and hinge pin.	
	
Double hook	ZH 147
with fastening material	
	
Rod guide	ZH 148
with fastening material	
	
Rod runner	ZH 149
for double doors	
	
Rubber seal	XZ 179
for double doors	
	
Touch guard parts	
Support*	XZ 150P6
for touch guard on the meter panel, required when meter panels are installed, 6 ea.	
Countersunk head screw	ZX 268P10
10 ea., M 5 x 10 for securing the touch guard parts in XA cabinets	

*Accessories not included in the scope of delivery.

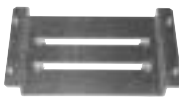
Article	Type
Spare parts for frame installation in the case of XA and XS	
Depth rails for XU Depth 300 mm Depth 400 mm Depth 600 mm Depth 800 mm	 XZ 138 XZ 121 XZ 122 XZ 123
Holder for bottom mounting frame and mounting plate 1 x left and 1 x right	 XZ 124LR
Holder for top left mounting frame and mounting plate	 XZ 125
Holder for top right mounting frame and mounting plate	 XZ 126
Centre rail, top for mounting frame and mounting plate when installed next to each other Depth 300 mm Depth 400 mm Depth 600 mm Depth 800 mm	 XZ 226 XZ 127 XZ 128 XZ 129
Centre rail, bottom for mounting frame and mounting plate when installed next to each other Depth 300 mm Depth 400 mm Depth 600 mm Depth 800 mm	 XZ 140 XZ 141 XZ 142 XZ 143
Centre holder, bottom for mounting frame and mounting plate next to each other	 XZ 130
Centre holder, top for mounting frame and mounting plate next to each other	 XZ 131
Width rail for panel width 4 to Series XS (installation of mounting frame and mounting plate next to each other)	 XZ 132
Frame holder to width rail in Series XS (installation of mounting frame and mounting plate next to each other)	 XZ 133

Article	Type
Spare parts for NF installation set XE	
NF bracket 1 x left and 1 x right with fastening material	 ZW 61LR
Centre support rail for NF installation on WR mounting frame with fastening material 1 panel wide (246 mm) 2 panels wide (496 mm) 3 panels wide (746 mm) 4 panels wide (996 mm)	 ZW 41 ZW 42 ZW 43 ZW 44
Top and bottom support rail for NF installation on WR mounting frame 1 panel wide (246 mm) 2 panels wide (496 mm) 3 panels wide (746 mm) 4 panels wide (996 mm)	 ZW 50 ZW 46 ZW 47 ZW 48
Spare parts for NF installation set XM for free extension in XA and XS	
Fastening console with fastening parts 175 mm long	 XZ 112
Centre support rail with support cylinder and hexagon socket screw 2 panels wide (553 mm) 3 panels wide (803 mm) 4 panels wide (1053 mm) 5 panels wide (1303 mm)	XZ 162 XZ 163 XZ 164 XZ 165
Support rail Top and bottom with support cylinder and hexagon socket screw 2 panels wide (553 mm) 3 panels wide (803 mm) 4 panels wide (1053 mm) 5 panels wide (1303 mm)	XZ 166 XZ 167 XZ 168 XZ 169



Mounting parts for mounting on the WR mounting frame

Accessories

Article	Type
Deep-mounting bracket for forward or backward adjustment of profile rails and mounting plates in the 15 mm grid spacing 2 ea. 100 ea.	 ZW 60P2 ZW 60P100
Deep-mounting bracket for stepless forward or backward adjustment of profile rails and mounting plates. 2 ea. 40 ea.	 ZW 142P2 ZW 142P40
Sunk nuts for WR mounting frame M8 for mounting frame 1 ea. 50 ea.	 ZW 62 ZW 62P50
Sliding nuts M 8 (self-locking) 10 ea.	 ZX 246P10
Cross-rail for disconnecter attachment with attachment screw and captive nuts for	
2 disconnecter Size 00, 1 panel wide 1 ea. 10 ea.	 ZX 31 ZX 31P10
4 disconnecter Size 00, 2 panels wide 1 ea. 10 ea.	 ZX 34 ZX 34P10
6 disconnecter Size 00, 3 panels wide 1 ea. 10 ea.	 ZW 162 ZW 162P10
1 disconnecter Size 1 or 2, 1 panel wide, 1 ea.	 ZH 235
2 disconnecter Size 1 or 2, 2 panels wide 1 ea. 10 ea.	 ZW 159 ZW 159P10
3 disconnecter Size 1 or 2, 3 panels wide 1 ea. 10 ea.	ZW 160 ZW 160P10
Captive nut 10 ea. for disconnecter cross-rails	
(ZX 31, ZX 34 and ZW 162) M 6 (ZW 159, ZW 160) M 8	 ZX 297P10 ZX 298P10

Article	for	Type
Mounting plates		
for fitting on deep-mounting brackets ZW 60P2, sheet steel 2 mm galvanised		
1 panel wide:		
	H x W	
1 grid spacing 116	x 196 mm	ZW 365
2 grid spacing 266	x 196 mm	ZW 338
3 grid spacing 416	x 196 mm	ZW 341
4 grid spacing 566	x 196 mm	ZW 344
5 grid spacing 716	x 196 mm	ZW 362
2 panels wide:		
	H x W	
1 grid spacing 116	x 466 mm	ZW 336
2 grid spacing 266	x 466 mm	ZW 339
3 grid spacing 416	x 466 mm	ZW 342
4 grid spacing 566	x 466 mm	ZW 345
5 grid spacing 716	x 466 mm	ZW 363
3 panels wide:		
	H x W	
1 grid spacing 116	x 696 mm	ZW 337
2 grid spacing 266	x 696 mm	ZW 340
3 grid spacing 416	x 696 mm	ZW 343
4 grid spacing 566	x 696 mm	ZW 346
5 grid spacing 716	x 696 mm	ZW 364
Sunk nuts for profile rails		
10 ea.		
20 x 11 x 4 M 5	profile 1-2	ZX 256P10
20 x 14 x 4 M 5	1-2-4-5-6	ZX 248P10
20 x 14 x 4 M 6	1-2-4-5-6	ZX 249P10
20 x 14 x 4 M 8	1-2-4-5-6	ZX 250P10
Sliding nuts for profile rails		
10 ea.		
	profile	
20 x 20 x 4 M 3	1-2-4-5-6	ZX 226P10
20 x 20 x 4 M 4	1-2-4-5-6	ZX 227P10
20 x 20 x 4 M 5	1-2-4-5-6	ZX 228P10
20 x 20 x 4 M 6	1-2-4-5-6	ZX 229P10
20 x 20 x 4 M 8	1-2-4-5-6	ZX 230P10
25 x 25 x 8 M 6	profile 3	ZX 231P10
25 x 25 x 8 M 8	profile 3	ZX 232P10
25 x 25 x 10 M 10	profile 3	ZX 233P10
25 x 25 x 10 M 12	profile 3	ZX 234P10
Cylinder screws for rail mounting		
with hexagon socket 10 ea.		
M 5 x 10		ZX 260P10
M 6 x 20		ZX 261P10
M 8 x 12		ZX 262P10
M 8 x 16		ZX 263P10
M 8 x 20		ZX 264P10
M 8 x 30		ZX 265P10
Clamps (cable clamps)		
for cable clamp rails, profile no. 10 from 22-28 mm from 40-46 mm from 64-70 mm		
		ZK 143 ZK 144 ZK 145

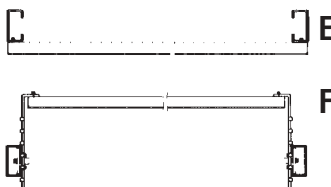


Profile rails

Width rails E and F

WR mounting frame with
width rail E

WR mounting frame with
deep-mounting bracket,
ZW 60P2
width rail F



Width rail E, width (mm)	1 panel wide 244 mm	2 panels wide 494	3 panels wide 744	4 panels wide 994
Width rail F, width (mm)	196 mm	446	696	946

Profile No. 1 (aluminium)

25 x 14 mm
Fastening hole Ø 6.2 mm



Width rail E				
Type	ZW 11	ZW 12	ZW 13	ZW 14
Width rail F				
Type	ZW 223	ZW 224	ZW 225	ZW 226

Profile No. 2 (aluminium)

25 x 20 mm
Fastening hole Ø 6.2 mm



Width rail E				
Type	ZW 207	ZW 215	ZW 216	ZW 217
Width rail F				
Type	ZW 228	ZW 229	ZW 230	ZW 231

Profile No. 3 (aluminium)

32 x 25 mm
Fastening hole Ø 8.2 mm



Width rail E				
Type	ZW 16	ZW 17	ZW 18	ZW 19
Width rail F				
Type	ZW 233	ZW 234	ZW 235	ZW 236

Profile No. 8

35 x 15 mm, galvanised sheet steel
Fastening hole Ø 6.2 mm



Width rail E				
Type	ED 1	ED 2	ED 3	ED 4
Width rail F				
Type	ED 51	ED 52	ED 53	ED 54

Profile No. 9

32.5 x 15 mm, galvanised sheet steel
Fastening hole Ø 6.2 mm



Width rail E				
Type	–	ZW 7	ZW 8	ZW 9
Width rail F				
Type	–	ZW 244	ZW 245	ZW 246

Profile No. 10

35 x 19 mm, galvanised sheet steel
Fastening hole Ø 6.2 mm



Width rail E				
Type	ZW 219	ZW 220	ZW 221	ZW 222
Width rail F				
Type	ZW 248	ZW 249	ZW 250	ZW 251



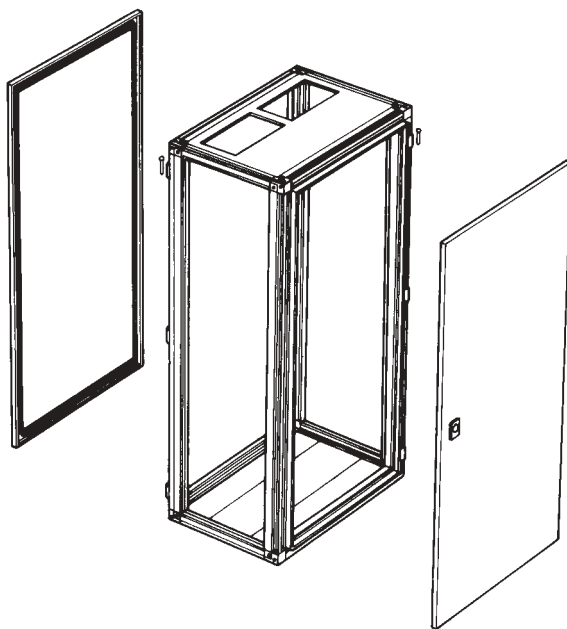
System Overview Free extension

The switchgear cabinet
Series XA aluminium, grounded.

XA



IP 54

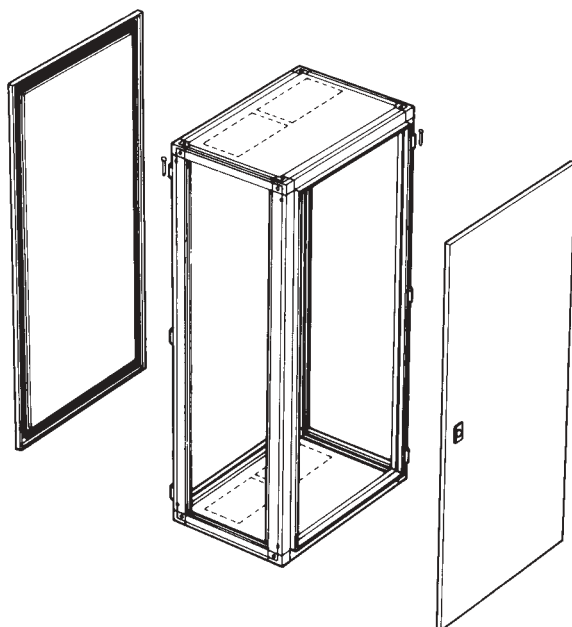


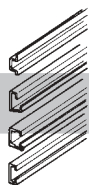
XS



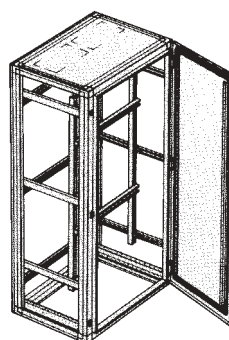
IP 54

The switchgear cabinet
Series XS double-insulated.

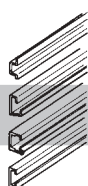




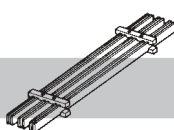
Profile rails



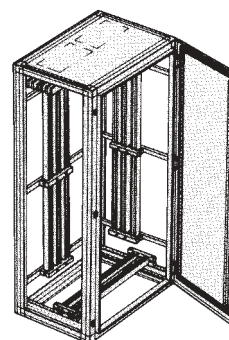
Variant V
Mounting with
profile rails



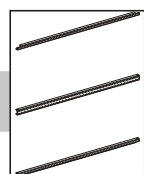
Profile rails



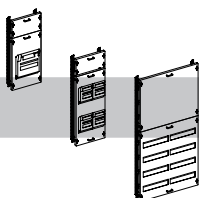
Busbars with
holders



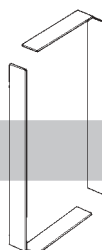
Variant VI
Mounting with busbar
systems
up to 3500 A



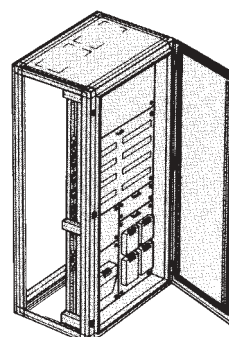
mounting set
XM



EDF panels



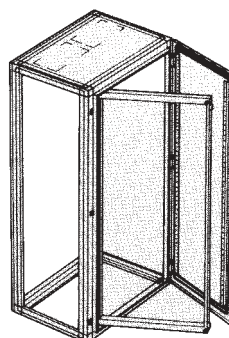
Touch guard
XB



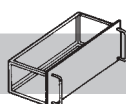
Variant VII
Mounting with
EDF distribution board
and meter panels



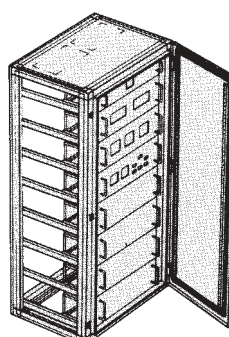
Swing frame



Variant VIII
Mounting
with swing frame



19 plug-in unit



Variant IX
Mounting for
19" technique



XA/XS cabinets for free extension, for indoor use

XA cabinet

XS cabinet

XA side walls

XS side walls

IP 54

grounded

Empty cabinet with door, backplate,
top cover plate, bottom plate
Colour: RAL 7032
Flanges must be ordered
separately.

IP 54

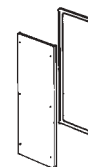
double insulated

Empty cabinet with door, backplate,
top cover plate, bottom plate
Colour: RAL 7032
Flanges must be ordered
separately.

2 ea.



2 ea.

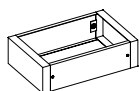


Overall height	Grid spacing	Panels	PLE	Type	Width in mm	Type	Width in mm	Type	Type
8	12 RE								
		2	288	2/8 XA4	600	2/8 XS 4	600	XW 84P2	XW 84SP2
		3	432	3/8 XA4	850	3/8 XS 4	850		
		4	576	4/8 XA4	1100	4/8 XS 4	1100		
		5	720	5/8 XA4	1350				
		2	288	2/8 XA 6	600	2/8 XS 6	600	XW 86P2	XW 86SP2
		3	432	3/8 XA 6	850	3/8 XS 6	850		
		4	576	4/8 XA 6	1100	4/8 XS 6	1100		
		5	720	5/8 XA 6	1350				
		2	288	2/8 XA 8	600			XW 88P2	
		3	432	3/8 XA 8	850				
		4	576	4/8 XA 8	1100				
		5	720	5/8 XA 8	1350				
10	14 RE								
		2	336	2/10 XA 4	600	2/10 XS 4	600	XW 104P2	XW 104SP2
		3	504	3/10 XA 4	850	3/10 XS 4	850		
		4	672	4/10 XA 4	1100	4/10 XS 4	1100		
		5	840	5/10 XA 4	1350				
		2	336	2/10 XA 6	600	2/10 XS 6	600	XW 106P2	XW 106SP2
		3	504	3/10 XA 6	850	3/10 XS 6	850		
		4	672	4/10 XA 6	1100	4/10 XS 6	1100		
		5	840	5/10 XA 6	1350				
		2	336	2/10 XA8	600			XW 108P2	
		3	504	3/10 XA8	850				
		4	672	4/10 XA8	1100				
		5	840	5/10 XA8	1350				

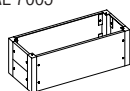
Standard panel mounting set XM	Socket XSR	Routing socket XRG	Touch guard XB
--------------------------------	------------	--------------------	----------------



Removable front and rear wall
Height 100 mm
RAL 7005



Front wall completely removable and side walls split in two
Height 300 mm
RAL 7005



Type	Type	Type	Type
XM 2 XM 3 XM 4 XM 5	XSR 24 XSR 34 XSR 44 XSR 54	XRG 24 XRG 34 XRG 44 XRG 54	XB 28 XB 38 XB 48 XB 58
XM 2 XM 3 XM 4 XM 5	XSR 26 XSR 36 XSR 46 XSR 56	XRG 26 XRG 36 XRG 46 XRG 56	XB 28 XB 38 XB 48 XB 58
XM 2 XM 3 XM 4 XM 5	XSR 28 XSR 38 XSR 48 XSR 58	XRG 28 XRG 38 XRG 48 XRG 58	XB 28 XB 38 XB 48 XB 58
XM 2 XM 3 XM 4 XM 5	XSR 24 XSR 34 XSR 44 XSR 54	XRG 24 XRG 34 XRG 44 XRG 54	XB 210 XB 310 XB 410 XB 510
XM 2 XM 3 XM 4 XM 5	XSR 26 XSR 36 XSR 46 XSR 56	XRG 26 XRG 36 XRG 46 XRG 56	XB 210 XB 310 XB 410 XB 510
XM 2 XM 3 XM 4 XM 5	XSR 28 XSR 38 XSR 48 XSR 58	XRG 28 XRG 38 XRG 48 XRG 58	XB 210 XB 310 XB 410 XB 510

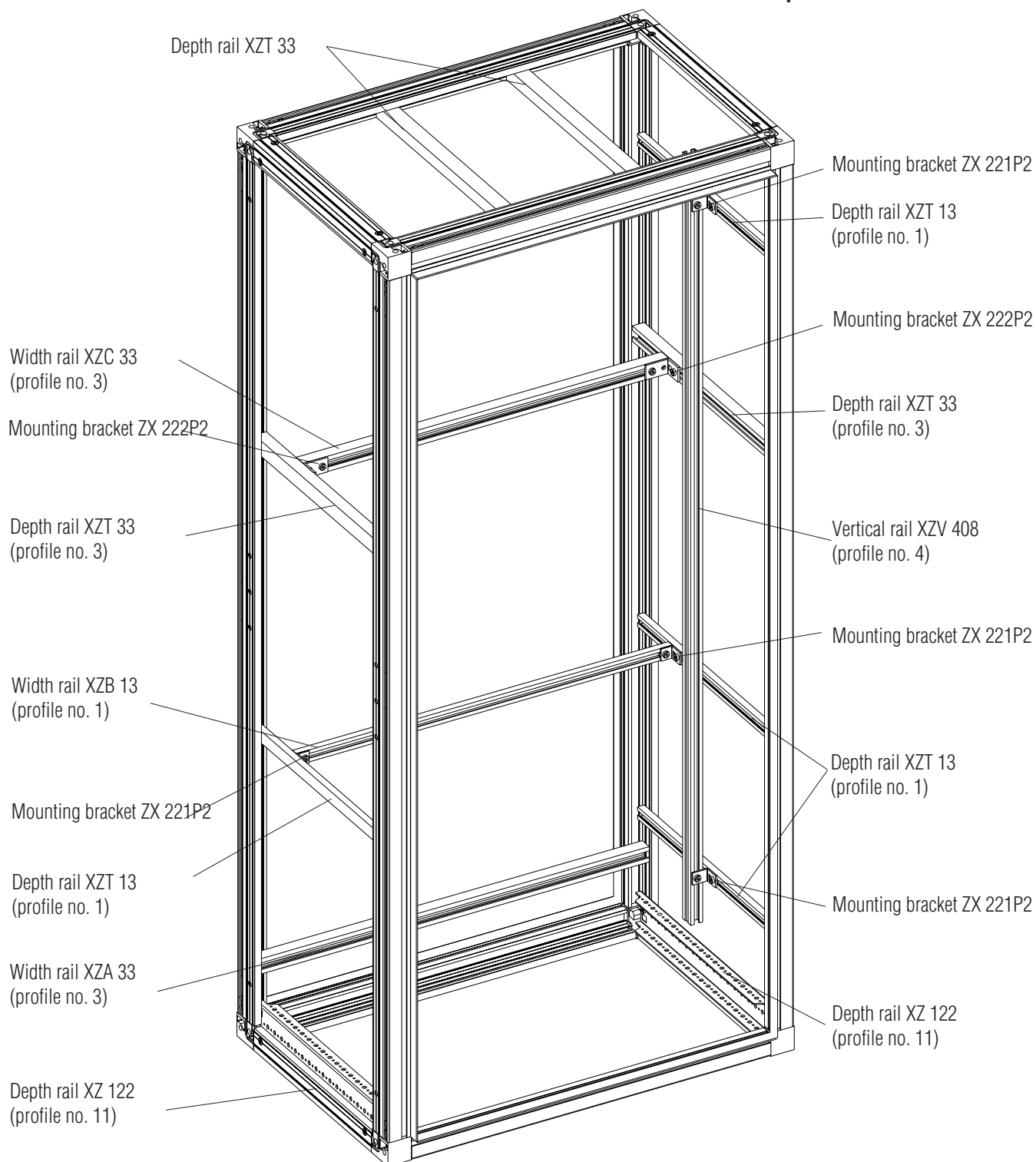


Free extension

In addition to the flexible fast assembly system, individual extensions with all the usual profiles and mounting elements are also possible with both series of cabinets.

For the special problem solutions in controller and distribution board construction, on the following pages Striebel & John offer a full installation program for both Series XA, grounded, and Series XS, double insulated. These system parts are supplemented by practical mounting accessories.

Cabinet depiction 3/8 XA6



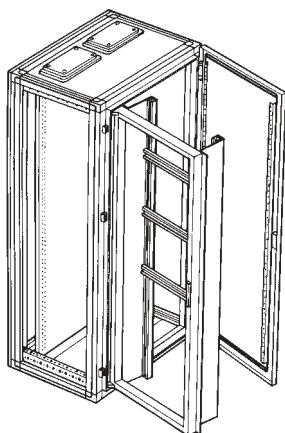


Notes



Swing frames for installation into XA switchgear cabinets

Design A for free extension



The swivel frame allows optimum use of the cabinet depth. Using a swing frame it is possible to mount contactors, relays, terminals and other devices on two levels. The frame that can be swung out by 180° enables the devices to be mounted and wired neatly. The Design A swing frame is suitable for the installation of devices on profile rails or mounting plates up to a maximum installation depth of 180 mm.

We supply Design A swing frames for Series XA, overall height 8 and 10 for 2 and 3 panels width.

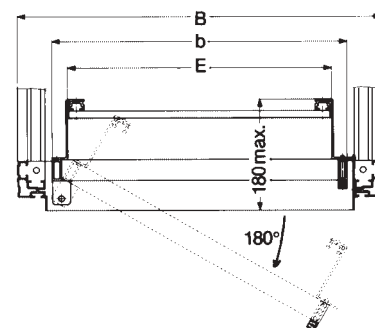
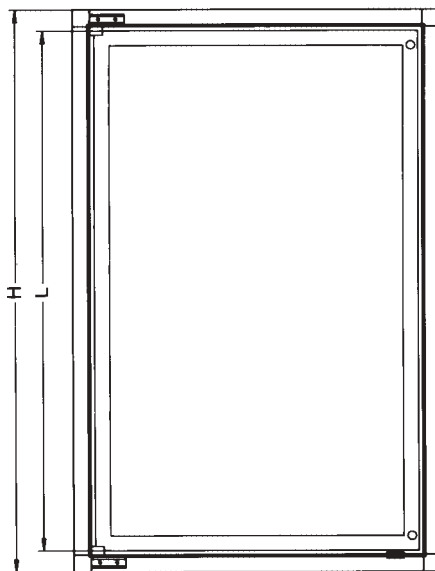
The unit ordered comprises: Swing frame with the vertical C profiles for fixing mounting plates, terminal rails and support rails for the devices.

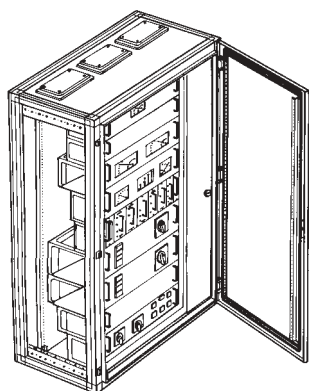
Top and bottom hinges, including fixing material, stop and run-up roller.

Overall width 2 (2 panels)

Overall width 3 (3 panels)

	Type	Dimensions			B	b	E		Type	Dimensions			B	b	E
Overall height 8															
Cabinet height (H) 1900 mm Frame height (L) 1765 mm	XE 28A	600	485	434					XE 38A	850	735	684			
Overall height 10															
Cabinet height (H) 2200 mm Frame height (L) 2065 mm	XE 210A	600	485	434					XE 310A	850	735	684			





Design B for 19" plug-in units for XA cabinets

Design B swing frames are intended for installation into cabinets of overall width 3 (3 panels wide) and are suitable for mounting 19" plug-in units. The lateral cover also allows the installation of plug-in units up to 450 mm deep, but only 305 mm mounting depth in the case of 400 mm deep cabinets. The plug-in units are fastened to the special C rail with self-locking sliding nuts.

The ordered unit comprises the swing frame with lateral cover, prepared for mounting 19" plug-in units. Top and bottom hinges, including fixing material, stop and run-up roller. Suitable for cabinets 400 mm or more deep.

Overall width 3 (3 panels)

	Type	Dimensions B b E		
Overall height 0 (600 mm)				
Frame height (L) 565 Height units (HE) 11	XE 30 B	850	740	485
Overall height 6 (1500 mm)				
Frame height (L) 1465 Height units (HE) 31	XE 36 B	850	740	485
Overall height 8 (1800 mm)				
Frame height (L) 1765 Height units (HE) 38	XE 38 B	850	740	485
Overall height 10 (2100 mm)				
Frame height (L) 2065 Height units (HE) 44	XE 310 B	850	740	485

Sliding nut

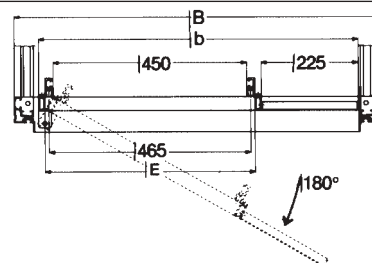
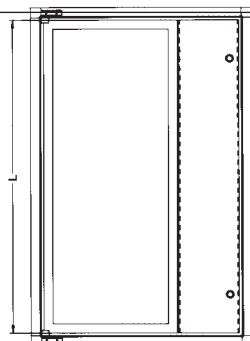
Plastic, self-locking, thread in the metal.
10 ea.
for fastening the 19" plug-in units

XZ 204P10
XZ 205P10
XZ 206P10

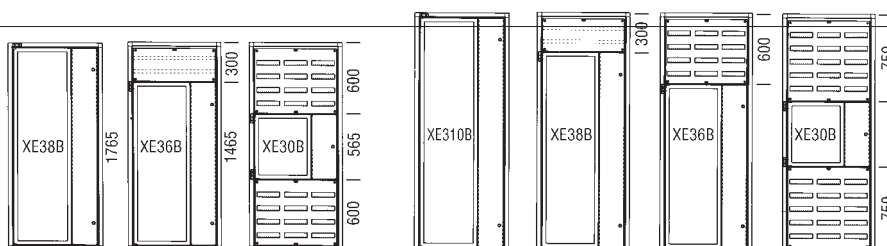
M 4 identification colour red
M 5 identification colour green
M 6 identification colour light brown



Dimensions

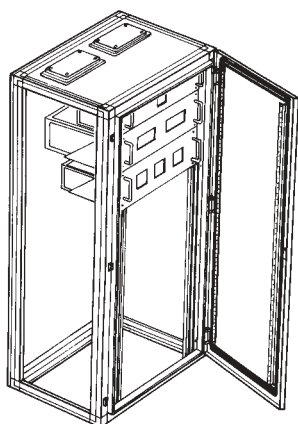


Examples of use for overall heights 8 and 10.





Permanent installation of 19" plug-in units -for switchgear cabinets series XA



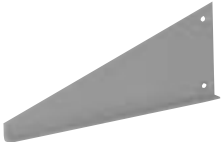
Using the electronics mounting set, the cabinet XA can be turned into an electronics cabinet. 19" vertical profiles, support rails, brackets and covers allow implementation of many variants with plug-in units. However, this application is only possible with 600 mm wide cabinets.

When incorporating heavier, deeper plug-in units or equipping the cabinet from both sides, 19" vertical profiles must be installed in the front and rear.

Support rails extending over the cabinet depth can be installed for supporting the plug-in units.

Standard mounting set for light plug-in units, consisting of two 19" vertical profiles XZ 189P2 or XZ 190P2 (overall height 8 and 10 respectively).

Accessories

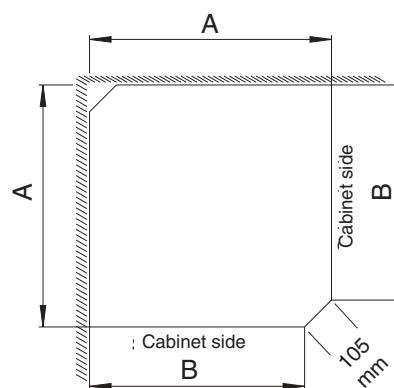
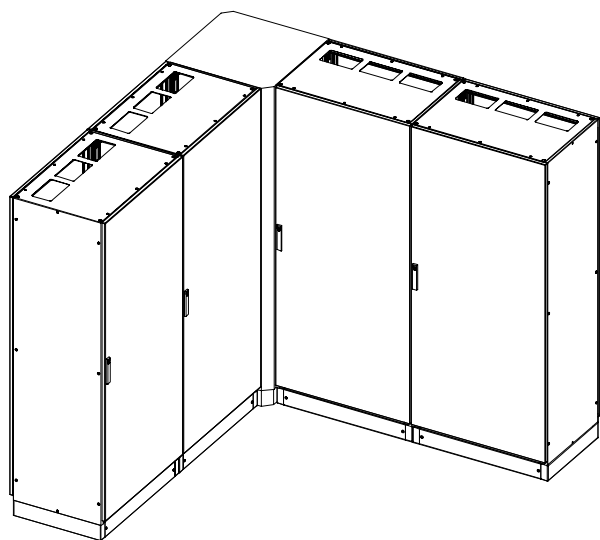
Article	Type
19" vertical profile with fixing material 2 ea. for Overall height 8 Overall height 10	 XZ 189P2 XZ 190P2
Bracket with fixing material 1 x left + 1 x right 200 mm deep 300 mm deep 400 mm deep	 XZ 192LR XZ 193LR XZ 194LR

Article	Type
Support rails for cabinet depth with fixing material 2 ea. 400 mm 600 mm 800 mm	 XZ 200P2 XZ 201P2 XZ 202P2
Sliding nut Plastic, self-locking, thread in the metal. Goes with profiles XZ 189P2 and XZ 190P2 and also in the swing frame 10 ea. for fastening the 19" plug-in units	 XZ 204P10 XZ 205P10 XZ 206P10
M4 identification colour red M5 identification colour green M6 identification colour light brown	



Corner sections for XA cabinets

The corner sections are used for cornerwise arrangement of XA switchgear cabinets at an angle of 90°.



Overall height	for cabinet depth	Type	Dimensions	
			A	B

8				
	400	E8XA4	450	400
	600	E8XA6	650	600
	800	E8XA8	850	800
10				
	400	E10XA4	450	400
	600	E10XA6	650	600
	800	E10XA8	850	800

Socket for corner sections

	for cabinet depth	Type
Height 100 mm		
	400	XSRE4
	600	XSRE6
	800	XSRE8
Height 300 mm		
	400	XRGE4
	600	XRGE6
	800	XRGE8



Cabinet systems for System smissline-S



Page	I_N (A)					IP 30	IP 31	IP 41	IP 43	IP 54	IP 55
4 - 2	Cabinet systems for System smissline-S										
4 - 4	Ordering overview for System smissline-S										
4 - 6	Wall cabinets for System smissline-S										
4 - 7	Distribution board panels for System smissline-S										
4 - 8	Combination panels for System smissline-S										
4 - 10	Project-related distribution board combinations for System smissline-S										
4 - 12	Floor standing cabinets for System smissline-S										
4 - 14	Switchgear cabinets for System smissline-S										
4 - 15	Modules for System smissline-S										
4 - 21	Accessories / spare parts for System smissline-S										
Applicable standards: DIN EN 604 39 - 1											



System smissline-S

System smissline-S – the individual route to switchgear technology

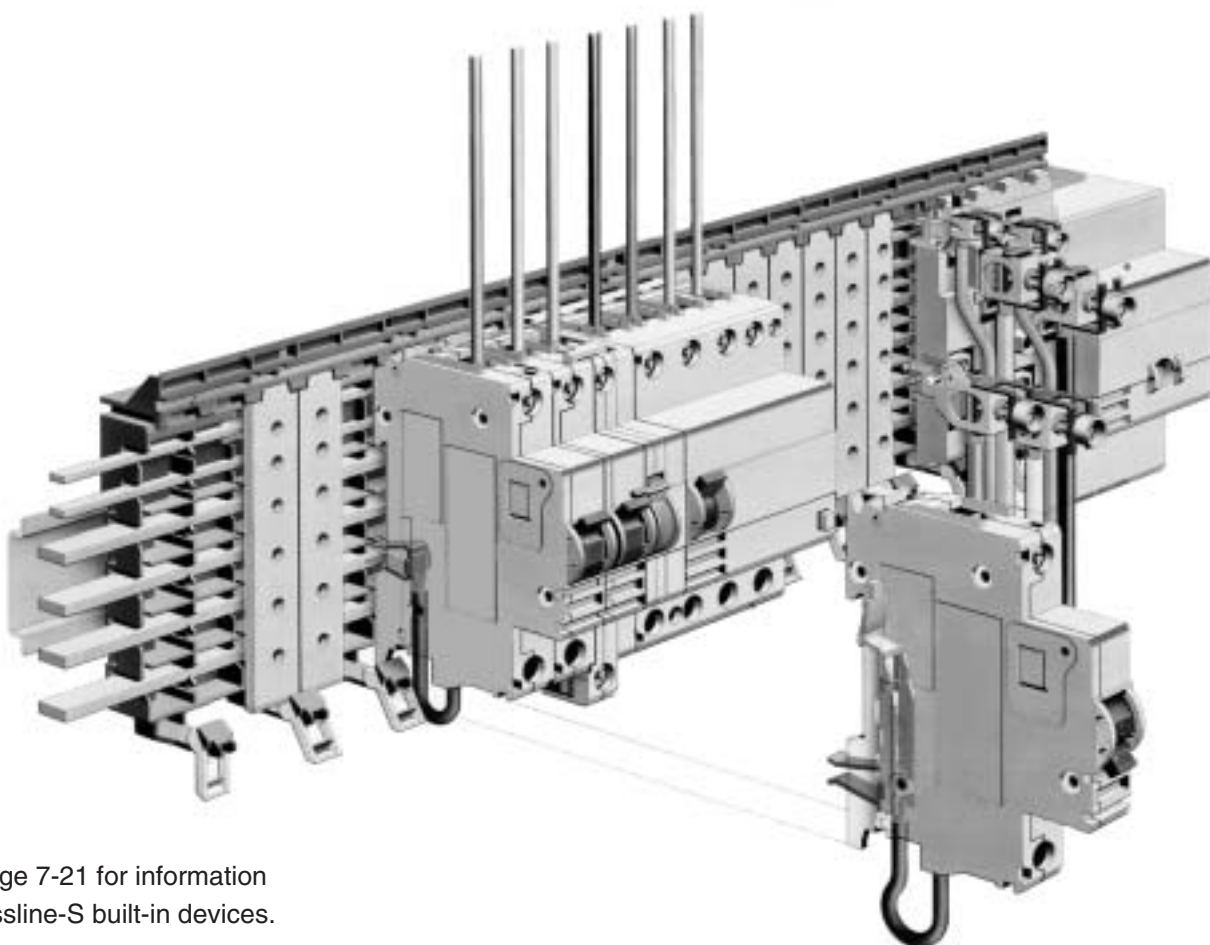
The plug-in smissline-S system of built-in device rows was developed for commercial and industrial switchgear technology. The aim of the smissline-S system is to reduce the deadline and cost pressure of a project and to improve the mounting methods. It is based on a plug-in base system. Horizontal and vertical installation possibilities, optimum space utilisation, easy modifications and extensions make the system extremely flexible. Mounting and wiring times can be significantly reduced thanks to the direct plug-on system.

One important advantage is also the mixed mounting possibility for built-in device rows pro M which is offered by the smissline-S plug-in base system thanks to the corresponding configuration of the Striebel & John extension products.

Striebel & John offers a wide range of floor standing and wall cabinets with extension modules for installing the smissline-S and pro M devices.

A grille allows simple cable laying and cable assignment inside the cabinet.

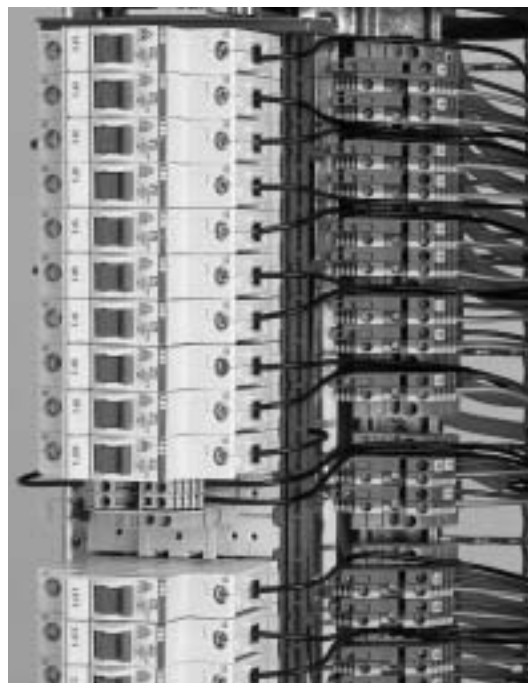
The switchgear constructor provides the fitter with a cabinet configured with smissline-S and pro M, on which the connection work, i.e. cable connections, is carried out at the installation site.



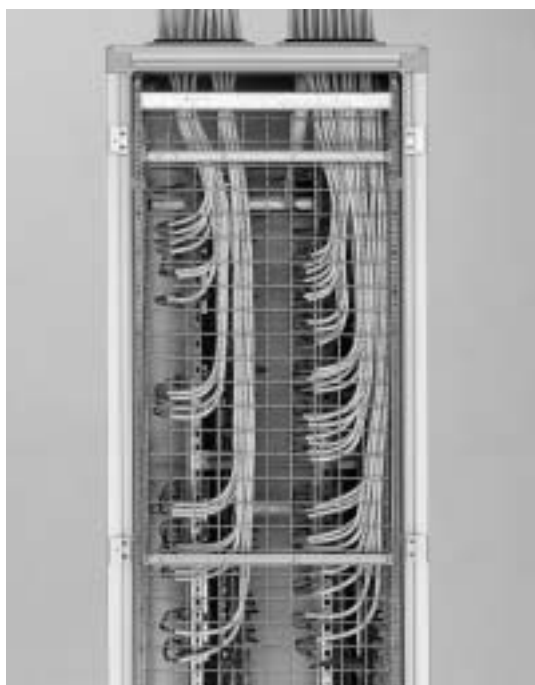
See Page 7-21 for information
on smissline-S built-in devices.



Project-related floor standing distribution, fitted with modules for accommodating smissline-S built-in devices and modules for snap-fit rows of pro M built-in wiring device, and also fuse switch disconnectors.



Outgoing wiring of the smissline-S built-in devices and rear position of the N/PE terminal blocks.



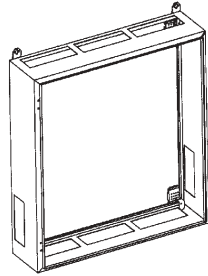
The grille serves as a cable-laying aid for easy cable routing and fixing. (taken from the rear side of the cabinet)



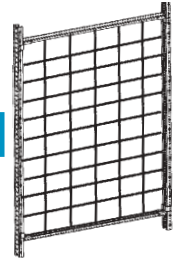
NH fuse switch disconnector for the infeed for the smissline-S devices above.



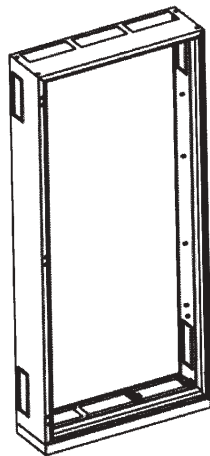
System smissline-S, Ordering Overview



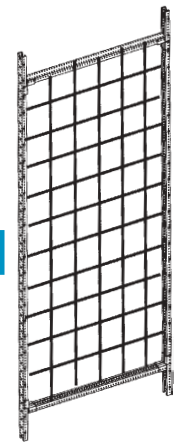
Wall cabinet



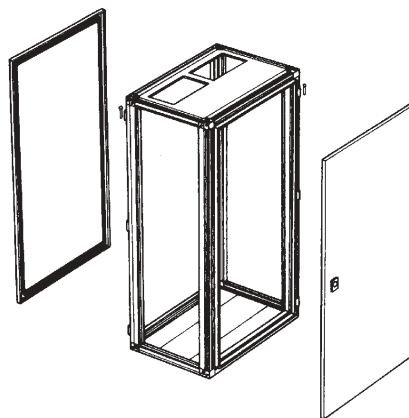
Cable-laying aid



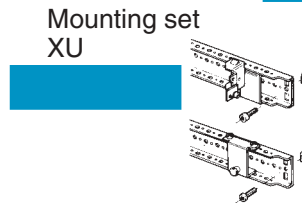
Floor standing cabinet



Cable-laying aid



Switchgear cabinet



Mounting set
XU

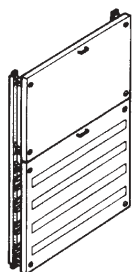


Cable-laying aid



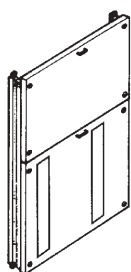
Cable-laying aid





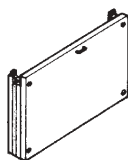
Distribution board panels

or

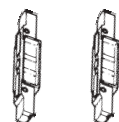


Distribution board panels

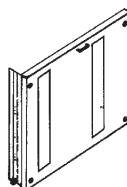
or



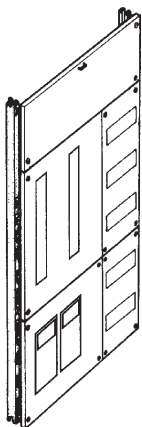
Combination panel



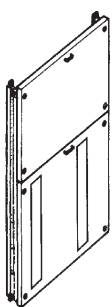
ED 30P2
Panel connector



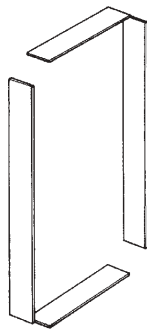
Combination panel



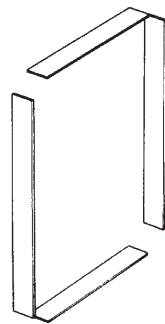
Project-related extension



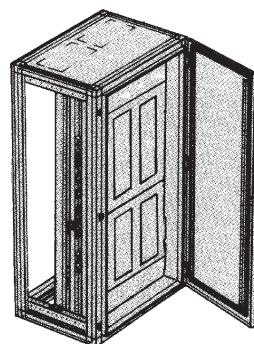
Project-related extension



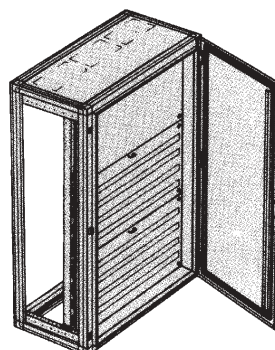
Touch guard



Touch guard



Vertical
extension variant



Horizontal
extension variant



Wall cabinets and distribution board panels for System smissline-S

B cabinet

IP 43 $\frac{1}{2}$

Applicable standards:
VDE 0660 Part 500 / 504,
DIN 43870
Colour: RAL 7035
Prepared for installation of
distribution board panels.

C cabinet

IP 54 $\frac{1}{2}$

Applicable standards:
VDE 0660 Part 500 / 504,
DIN 43870
Colour: RAL 7035
Empty cabinets
**Flanges must be ordered
separately, see Page 7-21**

W cabinet

IP 55 $\frac{1}{2}$

Applicable standards:
VDE 0660 Part 500 / 504,
DIN 43870
Colour: RAL 7035
Empty cabinets
**Flanges must be ordered
separately, see Page 7-21**

C cabinet: Standard panel installation set



Overall height	Grid spacing	Panels	PLE	Type	External dimensions W x D mm	Type	External dimensions W x D mm	Type	External dimensions W x D mm	Type
0	4 RE									
650 mm		2 3 4 5	96 144 192 240	2/0 B 3/0 B 4/0 B 5/0 B	550 x 215 800 x 215 1050 x 215 1300 x 215	2/0 C 3/0 C 4/0 C 5/0 C	550 x 260 800 x 260 1050 x 260 1300 x 260			CB 20 CB 30 CB 40 CB 50
1	5 RE									
800 mm		2 3 4 5	120 180 240 300	2/1 B 3/1 B 4/1 B 5/1 B	550 x 215 800 x 215 1050 x 215 1300 x 215					
2	6 RE									
950 mm		2 3 4 5	144 216 288 360	2/2 B 3/2 B 4/2 B 5/2 B	550 x 215 800 x 215 1050 x 215 1300 x 215	2/2 C 3/2 C 4/2 C 5/2 C	550 x 260 800 x 260 1050 x 260 1300 x 260	2/2 W 3/2 W 4/2 W 5/2 W	570 x 360 820 x 360 1070 x 360 1320 x 360	CB 22 CB 32 CB 42 CB 52
3	7 RE									
1100 mm		2 3 4 5	168 252 336 420	2/3 B 3/3 B 4/3 B 5/3 B	550 x 215 800 x 215 1050 x 215 1300 x 215					
4	8 RE									
1250 mm		2 3 4 5	192 288 384 480	2/4 B 3/4 B 4/4 B 5/4 B	550 x 215 800 x 215 1050 x 215 1300 x 215	2/4 C 3/4 C 4/4 C 5/4 C	550 x 260 800 x 260 1050 x 260 1300 x 260	2/4 W 3/4 W 4/4 W 5/4 W	570 x 360 820 x 360 1070 x 360 1320 x 360	CB 24 CB 34 CB 44 CB 54
5	9 RE									
1400 mm		2 3 4 5	216 324 432 540	2/5 B 3/5 B 4/5 B 5/5 B	550 x 215 800 x 215 1050 x 215 1300 x 215	2/5 C 3/5 C 4/5 C 5/5 C	550 x 260 800 x 260 1050 x 260 1300 x 260			CB 25 CB 35 CB 45 CB 55

B cabinet

C cabinet

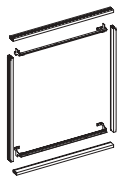
W cabinet

■ = must be ordered

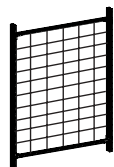
□ = required in accessories

● = optional

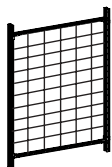
W cabinet:
Standard panel
installation set



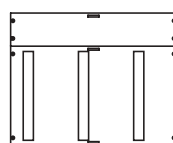
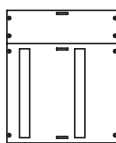
C cabinet:
Cable-laying
aid



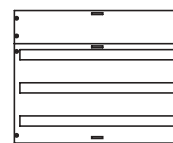
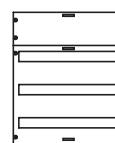
W cabinet:
Cable-laying
aid



Distribution board panels, smissline-S
Vertical device slots
Row spacing 250 mm



Distribution board panels, smissline-S
Horizontal device slots
Row spacing 150 mm



Type	Type	Type	500 mm 2 panels wide	750 mm 3 panels wide	500 mm 2 panels wide	750 mm 3 panels wide
	600 mm WG 2/0 C WG 3/0 C WG 4/0 C WG 5/0 C		44 PLE 2S0V 150 450	66 PLE 3S0V 150 450	72 PLE 2S0H 150 450	114 PLE 3S0H 150 450
	750 mm		60 PLE 2S1V 150 600	90 PLE 3S1V 150 600	96 PLE 2S1H 150 600	152 PLE 3S1H 150 600
WB 22 WB 32 WB 42 WB 52	900 mm WG 2/2 C WG 3/2 C WG 4/2 C WG 5/2 C	WG 2/2 W WG 3/2 W WG 4/2 W WG 5/2 W	76 PLE 2S2V 150 750	114 PLE 3S2V 150 750	120 PLE 2S2H 150 750	190 PLE 3S2H 150 750
	1050 mm WG 2/3 C WG 3/3 C WG 4/3 C WG 5/3 C		88 PLE 2S3V 150 450 450	132 PLE 3S3V 150 450 450	144 PLE 2S3H 150 450 450	228 PLE 3S3H 150 450 450
WB 24 WB 34 WB 44 WB 54	1200 mm WG 2/4 C WG 3/4 C WG 4/4 C WG 5/4 C	WG 2/4 W WG 3/4 W WG 4/4 W WG 5/4 W	104 PLE 2S4V 150 450 600	156 PLE 3S4V 150 450 600	168 PLE 2S4H 150 450 600	266 PLE 3S4H 150 450 600
	1350 mm WG 2/5 C WG 3/5 C WG 4/5 C WG 5/5 C		120 PLE 2S5V 150 600 600	180 PLE 3S5V 150 600 600	192 PLE 2S5H 150 600 600	304 PLE 3S5H 150 600 600
			●	●	●	●
	□		●	●	●	●
	□		●	●	●	●

→ The PLE details for smissline-S distribution board panels is the max. number for smissline-S devices



Combination panels for system smissline-S

■ The combination panel simplifies storage and provides distribution board and controller constructor with many combination possibilities.

■ Combination panels are fitted above each other using ED 30P2 in 2 or 3 panel configuration, maximum 9 grid spacings.

■ Combinations of combination panels must together have the same grid spacings as the cabinets in which they are being installed.

■ Horizontal device slots

■ Row spacing 150 mm ■ EDF design ■ for installation in wall cabinets Page 7-6, 7-7

■ Order panel-panel connector ED30P2 in accessories ■ without N/PE rail



Combination panel

+



ED 30P2
Panel connector

+



Combination panel

Designation Combination panel	500 mm 2 panels wide					750 mm 3 panels wide				
		Type	PLE	Grid spacing	Dimensions		Type	PLE	Grid spacing	Dimensions
Cable infeed		ED2SHV	0	1	150 x 500 mm		ED3SHV	0	1	150 x 750 mm
Horizontal device slots		ED2S00H	72	3	450 x 500 mm		ED3S00H	114	3	450 x 750 mm
Horizontal device slots		ED2S0H	96	4	600 x 500 mm		ED3S0H	152	4	600 x 750 mm
Horizontal device slots		ED2S1H	120	5	750 x 500 mm		ED3S1H	190	5	750 x 750 mm

→ The PLE details for smissline-S distribution board panels is the max. number for smissline-S devices

Article

Type

Accessories for combination panels

Panel connector

for any combination of combination panels up to max. overall height 5 (9 grid spacings).

2 ea.



ED 30P2

Article

Type

Spare parts for distribution board panels and combination panels

Cover holder 52.5 mm high

for attaching (insert, turn) on rails of the EDF fast assembly system and for engaging a partition. Use only this cover holder with DIN rails 35 x 15 mm.
12 ea.
40 ea.



ED 38 P12
ED 38 P40

90 degree press and turn closure

12 ea.



ED 50 P12

Spacer

for extending the cover holder by 25 mm.
4 ea.



ED 29 P4



Combination panels for system smissline-S

■ The combination panel simplifies storage and provides distribution board and controller constructor with many combination possibilities.

■ Combination panels are fitted above each other using ED 30P2 in 2 or 3 panel configuration, maximum 9 grid spacings

■ Combinations of combination panels must together have the same grid spacings as the cabinets in which they are being installed.

■ Vertical device slots

■ Row spacing 250 mm ■ EDF design ■ for installation in wall cabinets Page 7-6, 7-7

■ Order panel-panel connector ED30P2 in accessories ■ without N/PE rail



Combination panel

+



ED 30P2
Panel connector

+



Combination panel

2 panels wide

3 panels wide

Designation Combination panel		Type	PLE	Grid sp.	Dimensions		Type	PLE	Grid sp.	Dimensions
Cable infeed		ED2SHV	0	1	150 x 500 mm		ED3SHV	0	1	150 x 750 mm
Vertical device slots		ED2S00V	44	3	450 x 500 mm		ED3S00V	66	3	450 x 750 mm
Vertical device slots		ED2S0V	60	4	600 x 500 mm		ED3S0V	90	4	600 x 750 mm
Vertical device slots		ED2S1V	76	5	750 x 500 mm		ED3S1V	114	5	750 x 750 mm

→ The PLE details for smissline-S distribution board panels is the max. number for smissline-S devices



Project-related distribution board combinations for system smissline-S

Available only as a combination installed in the cabinet

Modules are available for extending Series C floor standing cabinets (grounded), Series W floor standing cabinets (grounded) and Series XA switchgear cabinets (grounded).

The distribution board constructor selects from 71 smissline-S modules those modules that are relevant to his project, thereby obtaining the correct low-voltage distribution in the easiest possible way.

Project-related distribution board combinations are always supplied from the factory, installed in the cabinet.

The proven mounting frame WR, with its special swing-in attachment system, serves as the support frame for the individual modules.

This support frame is included in the price of the modules and does not have to be ordered separately in the case of project-related distribution board combinations.

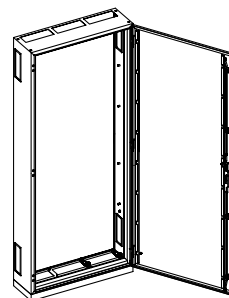
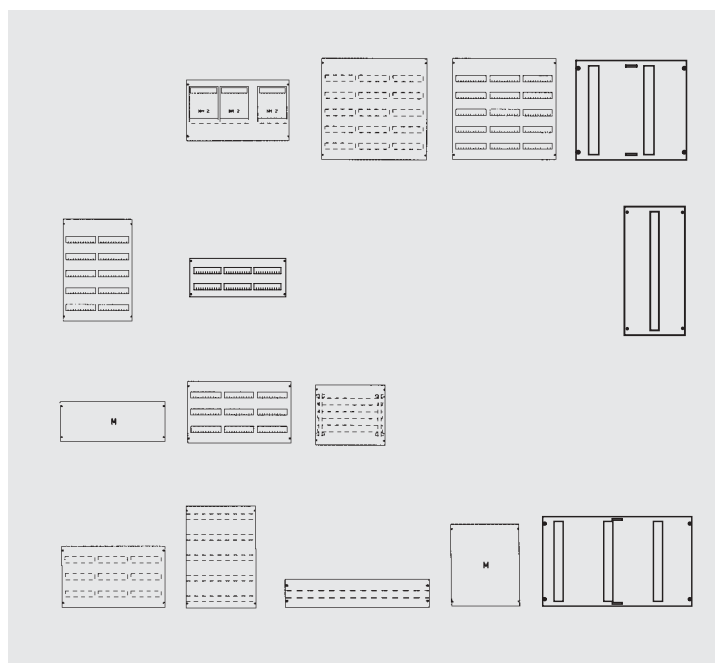
Depending on the modules, the following components are installed on this frame:

- DIN rail for smissline-S
- Busbar systems from 250 – 630 A, stepless depth adjustment
- U profiles for NH 00 disconnectors
- U profiles for NH 1 disconnectors
- U profiles for NH 2 disconnectors
- DIN rails for rows of built-in devices
- DIN rails for terminal blocks, adjustable depth
- Mounting plates, adjustable depth
- Touch guard cover, with or without cut-out depending on the module, made of deformation-resistant fibreglass-reinforced polyester.
- Cable-laying aid as an accessory

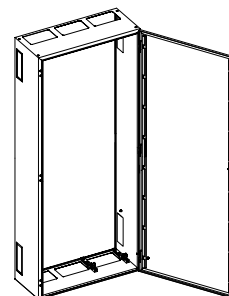
Advantages that save time and money:

- 1.) You plan your low-voltage distribution with the listed modules.
- 2.) You determine the overall price quickly and easily by adding up the module and cabinet prices.
- 3.) Striebel & John supply the ready-made cabinet combination within a very short time, prepared for component mounting and wiring. Striebel & John will also undertake part assembly, e.g. tested busbar systems.
- 4.) You yourself install devices of your choice.

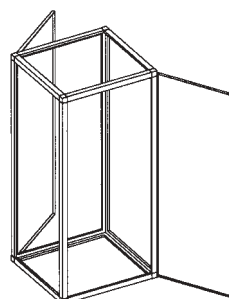
- Modules must together have the same grid spacings as the cabinets in which they are installed.



Floor standing cabinets
Series C ⊕ IP 54



Floor standing cabinets
Series W ⊕ IP 55
Series WA ⊕ IP 54



Switchgear cabinets
Series XA ⊕ IP 54

Project planning is so easy with XGS modules for System smissline-S

Select from the modules on the following pages the modules tailored to your project and in so doing obtain the correct low-voltage distribution in the easiest possible way. Of course, we will also provide you with a drawing to the correct scale.

The height division of the modules is in grid spacings as defined by DIN 43870.

One grid spacing = 150 mm.

Example:

One installation panel for cabinet height 8
(internal dimension 1800 mm) = 12 grid spacings

One installation panel for cabinet height 10
(internal dimension 2100 mm) = 14 grid spacings

And things such as ordering or calculation become so easy too

The module system panel (see below)

- Module XG 2S
- Module XG 2S1
- Module XG 2S
- Module XGS 107
- Module XGS 102
- Module XGS 205
- Module XGS 136
- Module XG 1S

Total price

The modules are always supplied completely installed on the mounting frame (module system panel) and in the cabinet (no individual deliveries).

Floor standing cabinet

Example 1:

Type 3/82 C

CSR 3

3 flanges ZP 58

Module system panel

Total price, complete distribution board

Example 2:

- Type 3/8 W
- WSR 3
- Touch guard ZW 92
- 3 flanges ZW 54
- 3 flanges ZW 51
- Module system panel

Total price, complete distribution board

Switchgear cabinet XA

Example 3:

Type 3/8 XA 4

XSR 34

Side walls XW 84P2

Touch guard XB 38

Mounting set XU 41

3 flanges ZW 54

Module system panel

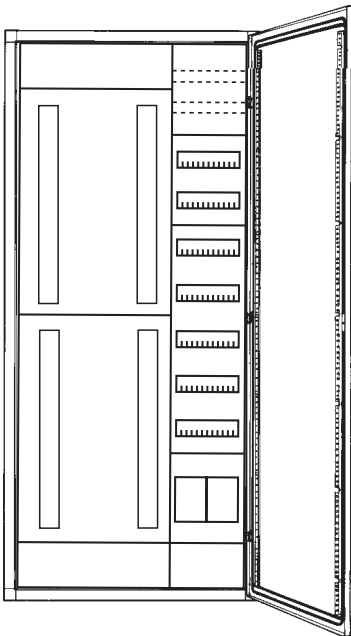
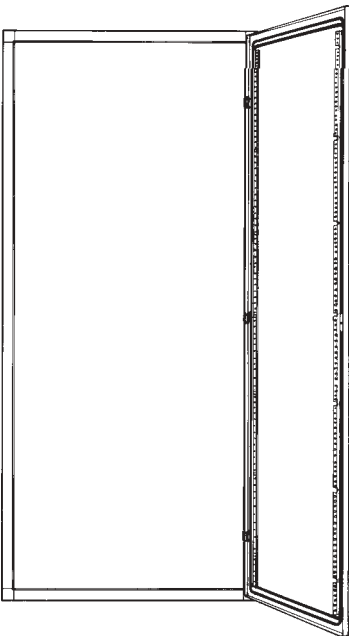
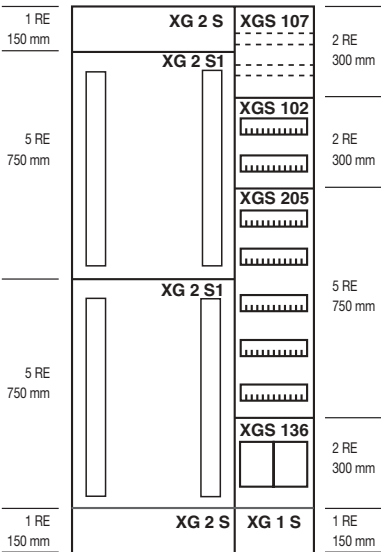
Total price, complete distribution board

Also order cable-laying aids as required.

The total price of the module system panel includes the proportional cost of the mounting frame, mounting and installation in the selected cabinet

Modules (module system panel) + cabinet = complete distribution board

Complete distribution boards are prepared for problem-free mounting with distribution board built-in devices.



Module system panel + cabinet = complete distribution board



Floor standing cabinets for System smissline-S

Mounting only with modules for project-related distribution board combinations

C cabinets, prepared for installation of module system panels

IP 54

- I_N 630 A.
- Enclosure made of 1.5 mm sheet steel, with door 2 mm thick.
- RAL 7035 powder-coated.
- Cabinets 1 to 3 panels wide, single door, right stop: Cabinets 4 and 5 panels wide, double door.
- Doors with espagnolette closure.
- Standard closure: Two-way key bit 3 mm.
- Door opening angle 160 degrees.
- The flange infeeds are open in the top per panel width, knockouts are provided in the bottom and sides.
- **Sockets must be ordered separately.**
- External fixing straps supplied at the factory.
- **Flanges must be ordered separately.**

Distribution board combination

Project-related
Installed at the factory

Cable-laying aid

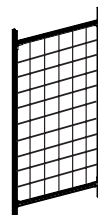
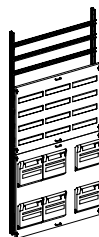
WG 2/8C + 3/8C,
1-part
WG 4/8C + 5/8C,
2-part

Socket frame

RAL 7005
Height 50 mm-

Routing socket

RAL 7005
Height 150 mm-
Front and rear
sides
removable



Grid	Overall height spacing	Panels PLE	Type	Dimensions HxWxD		Type	Type	Type
8	12 RE							
	2	288	2/82C	1850 x 550 x 260	See from page 7 - 14 for modules	WG 2/8 C	GSR 2	GRG 2
	3	432	3/82C	1850 x 800 x 260		WG 3/8 C	GSR 3	GRG 3
	4	576	4/82C	1850 x 1050 x 260		WG 4/8 C	GSR 4	GRG 4
	5	720	5/82C	1850 x 1300 x 260		WG 5/8 C	GSR 5	GRG 5

Project-related distribution board combinations

W cabinets, prepared for installation of module system panels

IP 55

- I_N 850 A.
- Enclosure made of 1.5 mm sheet steel, with door 2 mm thick.
- RAL 7035 powder-coated.
- As distribution board cabinet for modules required touch guard.
- The side flange openings have knockouts.
- The top and bottom flange openings can optionally be closed with nipple flanges, sponge rubber flanges or cover flange plates.
- **Flanges must be ordered separately.**
- Standard lock: Two-way bit 3 mm.
- Doors: Cabinets one, two and three panels wide have a single door with right stop. Double doors on cabinets four or more panels wide.

Distribution board combination

Project-related
Installed at the factory

Cable-laying aid

WG 2/8W + 3/8W, 1-part
WG 4/8W - 6/8W, 2-part

Touch guard

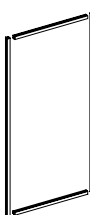
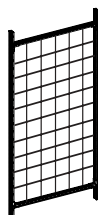
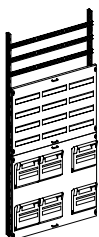
Required for installation of modules.

Socket frame

RAL 7005
Front and rear
sides
removable
Height 130 mm

Routing socket

RAL 7005
Front and rear
sides
removable
Outsides
with knockout
With holders for
cable clamp rails.
Height 260 mm



Grid	Overall height spacing	Panels PLE	Type	Dimensions HxWxD mm		Type	Type	Type	Type
8	12 RE								
	2	288	2/8 W	1870 x 570 x 360	See from page 7 - 14 for modules	WG 2/8 W	ZW 91	WSR 2	WRG 2
	3	432	3/8 W	1870 x 820 x 360		WG 3/8 W	ZW 92	WSR 3	WRG 3
	4	576	4/8 W	1870 x 1070 x 360		WG 4/8 W	ZW 93	WSR 4	WRG 4
	5	720	5/8 W	1870 x 1320 x 360		WG 5/8 W	ZW 94	WSR 5	WRG 5
	6	864	6/8 W	1870 x 1570 x 360		WG 6/8 W	ZW 95	WSR 6	WRG 6

Accessories required

Project-related distribution board combinations

- = Necessary accessory
- = Accessory as required
- = Optional



Floor standing cabinets – series-connectable System smissline-S

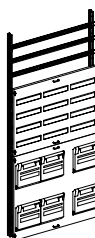
WA cabinets, prepared for installation of module system panels

IP 54

- I_N 850 A.
- Enclosure made of 1.5 mm sheet steel, with door 2 mm thick.
- RAL 7035 powder-coated.
- As distribution board cabinet for modules required touch guard.
- Fast and easy laying of connecting cables and busbar systems is possible through the vertical openings on both sides of the cabinet.
- **Side walls must be ordered separately.**
- **Connecting set must be ordered separately.**
- The top and bottom flange openings can optionally be closed with nipple flanges, sponge rubber flanges or cover flange plates.
- **Flanges must be ordered separately.**
- Standard lock: Two-way bit 3 mm.
- Doors: Cabinets one, two and three panels wide have a single door with right stop. Double doors on cabinets four or more panels wide.

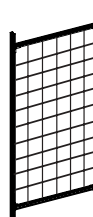
Distribution board combination

Project-related
Installed at the factory



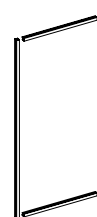
Cable-laying aid

WG 2/8W +
3/8W, 1-part
WG 4/8W,
2-part



Touch guard

Required for installation of modules.



Socket frame

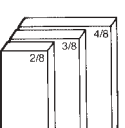
RAL 7005
Front and rear sides removable
Height 130 mm



Routing socket

RAL 7005
Front and rear sides removable
Outsides with knockout
With holders for cable clamp rails.
Height 260 mm



Grid spacing			Dimensions HxWxD mm			Type	Type	Type	Type
Overall height	Panels PLE	Type				Type	Type	Type	Type
8	12 RE								
	2	288	2/8 WA	1870 x 570 x 360	See from page 7 - 15 for modules	WG 2/8 W	ZW 91	WSR 2	WRG 2
	3	432	3/8 WA	1870 x 820 x 360		WG 3/8 W	ZW 92	WSR 3	WRG 3
	4	576	4/8 WA	1870 x 1070 x 360		WG 4/8 W	ZW 93	WSR 4	WRG 4

Accessories required

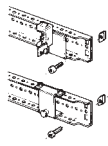
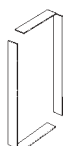
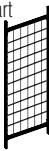
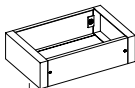
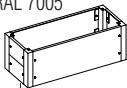
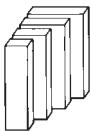
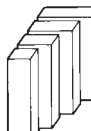
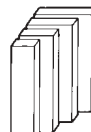
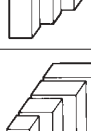
Project-related distribution board combinations	■	■	□	■	□	□
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- = Necessary accessory
- = Accessory as required
- = Optional



Switchgear cabinets for System smissline-S

Mounting only with modules for project-related distribution board combinations

Height 8 = 1900 mm		XA cabinet		XA side walls $\perp$		Mounting set XU		Touch guard XB		Cable-laying aid		Socket XSR		Routing socket XRG	
Height 10 = 2200 mm		IP 54 $\perp$ Empty cabinet with door, rear wall, top cover plate, bottom plates Colour: RAL 7032 Flanges must be ordered separately.		Pair		Standard mounting				WG 2/8X+3/8X, 1-part WG 4/8X+5/8X, 2-part		Front and rear sides removable, Height 100 mm RAL 7005		Front side completely removable and side walls split in two Height 300 mm RAL 7005	
															
Overall height	Grid spacing	Panels PLE	Type	Dimensions WxD mm	Type	Type	Type	Type	Type	Type	Type	Type	Type	Type	Type
8 12 RE															
	2	288	2/8 XA 3	600 x 300	XW 83P2	XU 31	XB 283	WG 2/8X	XSR 23	XRG 23					
	3	432	3/8 XA 3	850 x 300		XU 31	XB 383	WG 3/8X	XSR 33	XRG 33					
	4	576	4/8 XA 3	1100 x 300		XU 31	XB 483	WG 4/8X	XSR 43	XRG 43					
	5	720	5/8 XA 3	1350 x 300		XU 32	XB 583	WG 5/8X	XSR 53	XRG 53					
	2	288	2/8 XA 4	600 x 400	XW 84P2	XU 41	XB 28	WG 2/8X	XSR 24	XRG 24					
	3	432	3/8 XA 4	850 x 400		XU 41	XB 38	WG 3/8X	XSR 34	XRG 34					
	4	576	4/8 XA 4	1100 x 400		XU 41	XB 48	WG 4/8X	XSR 44	XRG 44					
	5	720	5/8 XA 4	1350 x 400		XU 42	XB 58	WG 5/8X	XSR 54	XRG 54					
	2	288	2/8 XA 6	600 x 600	XW 86P2	XU 61	XB 28	WG 2/8X	XSR 26	XRG 26					
	3	432	3/8 XA 6	850 x 600		XU 61	XB 38	WG 3/8X	XSR 36	XRG 36					
	4	576	4/8 XA 6	1100 x 600		XU 61	XB 48	WG 4/8X	XSR 46	XRG 46					
	5	720	5/8 XA 6	1350 x 600		XU 62	XB 58	WG 5/8X	XSR 56	XRG 56					
	2	288	2/8 XA 8	600 x 800	XW 88P2	XU 81	XB 28	WG 2/8X	XSR 28	XRG 28					
	3	432	3/8 XA 8	850 x 800		XU 81	XB 38	WG 3/8X	XSR 38	XRG 38					
	4	576	4/8 XA 8	1100 x 800		XU 81	XB 48	WG 4/8X	XSR 48	XRG 48					
	5	720	5/8 XA 8	1350 x 800		XU 82	XB 58	WG 5/8X	XSR 58	XRG 58					
10 14 RE															
	2	336	2/10 XA 3	600 x 300	XW 103P2	XU 31	XB 213	WG 2/10X	XSR 23	XRG 23					
	3	504	3/10 XA 3	850 x 300		XU 31	XB 313	WG 3/10X	XSR 33	XRG 33					
	4	672	4/10 XA 3	1100 x 300		XU 31	XB 413	WG 4/10X	XSR 43	XRG 43					
	5	840	5/10 XA 3	1350 x 300		XU 32	XB 513	WG 5/10X	XSR 53	XRG 53					
	2	336	2/10 XA 4	600 x 400	XW 104P2	XU 41	XB 210	WG 2/10X	XSR 24	XRG 24					
	3	504	3/10 XA 4	850 x 400		XU 41	XB 310	WG 3/10X	XSR 34	XRG 34					
	4	672	4/10 XA 4	1100 x 400		XU 41	XB 410	WG 4/10X	XSR 44	XRG 44					
	5	840	5/10 XA 4	1350 x 400		XU 42	XB 510	WG 5/10X	XSR 54	XRG 54					
	2	336	2/10 XA 6	600 x 600	XW 106P2	XU 61	XB 210	WG 2/10X	XSR 26	XRG 26					
	3	504	3/10 XA 6	850 x 600		XU 61	XB 310	WG 3/10X	XSR 36	XRG 36					
	4	672	4/10 XA 6	1100 x 600		XU 61	XB 410	WG 4/10X	XSR 46	XRG 46					
	5	840	5/10 XA 6	1350 x 600		XU 62	XB 510	WG 5/10X	XSR 56	XRG 56					
	2	336	2/10 XA 8	600 x 800	XW 108P2	XU 81	XB 210	WG 2/10X	XSR 28	XRG 28					
	3	504	3/10 XA 8	850 x 800		XU 81	XB 310	WG 3/10X	XSR 38	XRG 38					
	4	672	4/10 XA 8	1100 x 800		XU 81	XB 410	WG 4/10X	XSR 48	XRG 48					
	5	840	5/10 XA 8	1350 x 800		XU 82	XB 510	WG 5/10X	XSR 58	XRG 58					

Accessories required

Project-related distribution board combinations

■ = Necessary accessory

□ = Accessory as required

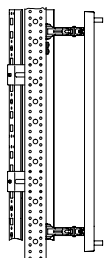


Modules for System smissline-S

Project-related distribution board combinations

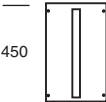
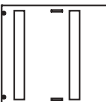
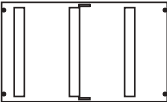
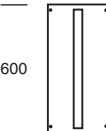
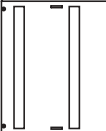
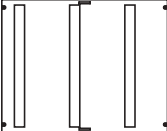
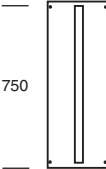
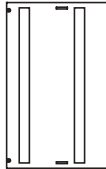
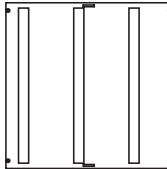
Modules for smissline-S built-in devices

■ Vertical device slots, Row spacing 250mm ■ Available only as a combination installed in the cabinet



Equipment:

Covers made of halogen-free, fibreglass-reinforced polyester with vertical device slots. Dimensions in accordance with DIN 43870. Covers fastened with 90° press and turn closure on cover holders, with vertical mounting rail for smissline mounting socket and vertical DIN rail for terminals.

Designation	Grid spacing	Width 250	Width 500	Width 750
Cable-infeed module	1	 XG1S PLE 0 150 x 250	 XG2S PLE 0 150 x 500 mm	 XG3S PLE 0 150 x 750 mm
Vertical module	3	 XG1S00 PLE 22 450 x 250 mm	 XG2S00 PLE 44 450 x 500 mm	 XG3S00 PLE 66 450 x 750 mm
Vertical module	4	 XG1S0 PLE 30 600 x 250 mm	 XG2S0 PLE 60 600 x 500 mm	 XG3S0 PLE 90 600 x 750 mm
Vertical module	5	 XG1S1 PLE 38 750 x 250 mm	 XG2S1 PLE 76 750 x 500 mm	 XG3S1 PLE 114 750 x 750 mm

→ The PLE details for smissline-S modules is the max. number for smissline-S devices



Modules for System smissline-S

Project-related distribution board combinations

Modules for main power supply with copper busbar systems

■ Available only as a combination installed in the cabinet

Equipment:

Covers made of halogen-free, fibreglass-reinforced polyester without openings. Dimensions in accordance with DIN 43870. Covers fastened with 90° press and turn closure on cover holders, which are inserted and fixed with a quarter turn. The depth of the busbar systems is steplessly adjustable by mounting on special deep-mounting brackets.

	Grid spacing	Width 250	Width 500	Width 750
Current carrying capacity 250 A Rail spacing 40 mm Cu rail cross section 20 x 5 mm Busbar holder type ZB 5	2	 XGS 124	 XGS 224	 XGS 324
Current carrying capacity 320 A Rail spacing 40 mm Cu rail cross section 20 x 5 mm Busbar holder type ZB 5	2	 XGS 126	 XGS 226	 XGS 326
Current carrying capacity 500 A Rail spacing 60 mm Cu rail cross section 20 x 10 mm Busbar holder type ZX 151	2	 XGS 128	 XGS 228	 XGS 328
Current carrying capacity 630 A Rail spacing 60 mm Cu rail cross section 30 x 10 mm Busbar holder type ZX 151	2	 XGS 129	 XGS 229	 XGS 329



Modules for System smissline-S

Project-related distribution board combinations

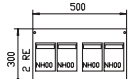
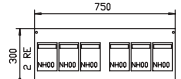
Modules for NH fuse switch disconnectors Size 00 125/160A

■ Available only as a combination installed in the cabinet

Modules for NH fuse switch disconnectors Size 00 125/160 A, also in conjunction with snap-on installation built-in device rows in dimensions as defined in DIN 43880. Suitable for fuse switch disconnectors with screw attachment. Universal mounting on sliding rails for adapting to different fastening bore holes.

Equipment:

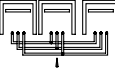
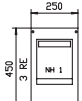
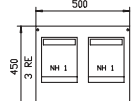
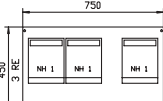
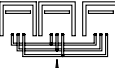
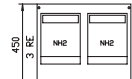
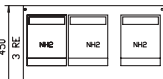
Covers made of halogen-free, fibreglass-reinforced polyester. Dimensions in accordance with DIN 43870. Openings for fuse switch disconnectors tailored to cover dimensions. Covers fastened with 90° press and turn closure on cover holders, which are inserted and fixed with a quarter turn. Disconnecter cross member mounted directly on frame (without disconnecter).

Busbar systems		Grid spacing	Modules	Width 500	Width 750
			Width 250		
CU rail cross section 20 x 5 Current carrying capacity 320 A					
		2			
ZH 214				XGS 239	XGS 339
		2			
ZH 214	ZH 211		XGS 136	XGS 236	XGS 336
					
	ZH 311				

Modules for NH fuse switch disconnectors size I 250A/ size II 400A

Equipment:

Covers made of halogen-free, fibreglass-reinforced polyester. Dimensions in accordance with DIN 43870. Openings for fuse switch disconnectors tailored to cover dimensions. Covers secured with 90° press and turn closure on cover holders, which are inserted and fixed with a quarter turn. Disconnecter cross member mounted directly on frame (without disconnecter).

Busbar systems		Grid spacing	Modules	Width 500	Width 750
			Width 250		
CU rail cross section 30 x 5, Current carrying capacity 440 A					
		3			
ZH 217	ZH 317		XGS 142	XGS 242	XGS 342
		3			
ZH 217	ZH 317		XGS 144	XGS 244	XGS 344



Modules for System smissline-S

Project-related distribution board combinations

Modules for installation built-in device rows

■ Available only as a combination installed in the cabinet

Equipment:
 Covers made of halogen-free, fibreglass-reinforced polyester. Dimensions in accordance with DIN 43870. Openings for installation built-in device rows DIN 43880. Slot length for 12 PLE (216 mm) per panel width. Covers fastened with 90° press and turn closure on cover holders, which are inserted and fixed with a quarter turn.

Grid spacing	Width 250	Width 500	Width 750
2	XGS 102	XGS 202	XGS 302
3	XGS 103	XGS 203	XGS 303
4	XGS 104	XGS 204	XGS 304
5	XGS 105	XGS 205	XGS 305



Modules for System smissline-S

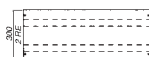
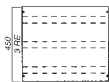
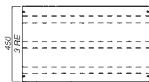
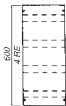
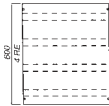
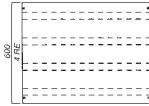
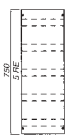
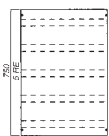
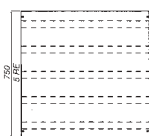
Project-related distribution board combinations

Modules switchgear terminal blocks

■ Available only as a combination installed in the cabinet

Equipment:

Covers made of halogen-free, fibreglass-reinforced polyester. No openings, but knockout panels for any cut-outs that are required. Dimensions in accordance with DIN 43870. Covers fastened with 90° press and turn closure on cover holders, which are inserted and fixed with a quarter turn. Steel surface bichromated. Current-carrying capacity 115 A. The terminal rail is mounted on a deep-mounting bracket and can be moved back in the 15 mm grid.

Grid spacing	Width 250	Width 500	Width 750
2	 XGS 107	 XGS 207	 XGS 307
3	 XGS 108	 XGS 208	 XGS 308
4	 XGS 109	 XGS 209	 XGS 309
5	 XGS 110	 XGS 210	 XGS 310



Modules for System smissline-S

Project-related distribution board combinations

Modules with mounting plate

■ Available only as a combination installed in the cabinet

Equipment:

Covers made of halogen-free, fibreglass-reinforced polyester without openings. Dimensions in accordance with DIN 43870. Covers fastened with 90° press and turn closure on cover holders, which are inserted and fixed with a quarter turn. Mounting plate made of sheet steel. Surface Sendzimir galvanised. Material thickness 2 mm.

The mounting plate is mounted on a deep-mounting bracket and can be moved back in the 15 mm grid.

Plate height:

- 1 panel = 196 mm
- 2 panels = 466 mm
- 3 panels = 696 mm

Grid spacing	Width 250	Width 500	Width 750
2	XGS 112	XGS 212	XGS 312
3	XGS 113	XGS 213	XGS 313

Modules as touch guard

Equipment:

Covers made of halogen-free, fibreglass-reinforced polyester without openings. Dimensions in accordance with DIN 43870. Covers fastened with 90° press and turn closure on cover holders, which are inserted and fixed with a quarter turn.

Grid spacing	Width 250	Width 500	Width 750
2	XGS 116	XGS 216	XGS 316
3	XGS 117	XGS 217	XGS 317



Accessories / spare parts for System smissline-S

Article	Type
Flanges for C cabinets, IP 54 Flanges for XA cabinets 300 mm deep, IP 54	

Attention: Always order flanges separately! Order one top flange per panel width.

Cover flange plate

1 ea.
10 ea.



ZP 55
ZP 55P10

Flange for PG screw couplings

1 x PG 42 / 2 x PG 21

1 ea.
10 ea.



ZP 56
ZP 56P10

Flange for PG screw couplings

2 x PG 29 / 4 x PG 16 /
3 x PG 13.5 / 2 x PG 11

1 ea.
10 ea.



ZP 57
ZP 57P10

Diaphragm flange

1 ea.
10 ea.



ZP 58
ZP 58P10

Flanges for W cabinets IP 55, WA cabinets IP 54 Flanges for XA cabinets from 400 mm depth IP 54

Order one top and bottom flange
per panel width for W and WA cabinets
Order one top flange per panel width
for XA cabinets

Cover flange plate

1 ea.
10 ea.



ZW 51
ZW 51P10

Nipple flange

2 x PG 29, 5 x PG 16, 42 x PG 13.5

1 ea.
10 ea.



ZW 52
ZW 52P10

Flange for PG screw couplings

4 x PG 21, 12 x PG 13.5

1 ea.
10 ea.



ZW 53
ZW 53P10

Sponge rubber flange

1 ea.
10 ea.



ZW 54
ZW 54P10

Connection set for side by side installation (with sealing strip)

Series XA to Series XA



XZ 76

Spare parts for modules

Cover holder 52.5 mm high

12 ea.
40 ea.



ED 38 P12
ED 38 P40

90 degree press and turn closure

12 ea.



ED 50 P12

Spacer

for extending the cover holder
by 25 mm.
4 ea.



ED 29 P4

Article	Type
Accessories for modules	

NH disconnecter for mounting on disconnector cross member

NH 00 load disconnecter 125 A

without cover

1 ea.
10 ea.



ZH 11
ZH 11P10

NH 00 load disconnecter 160 A

without cover

1 ea.
10 ea.



ZH 18
ZH 18P10

NH 00 load disconnecter 125 A
with clamp terminal up to 50 mm²
without cover

1 ea.
10 ea.



ZH 40
ZH 40P10

Covers for disconnectors

Single cover for 1 disconnector NH 00



ZH 13

Double cover for 2 disconnectors NH 00



ZH 15

Triple cover for 3 disconnectors NH 00



ZH 44

Dummy covers for empty dis- connector cut-outs in standard panel covers

for 1 disconnector cut-out NH 00



ZH 16

for double cut-out NH 00



ZH 17

for disconnector cut-out NH 1
250 A

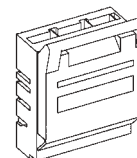


ZH 9

NH disconnecter for mounting on disconnector cross member

NH 1 load disconnecter 250 A
with cover

1 ea.
7 ea.

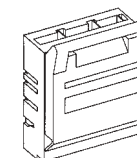


ZH 8
ZH 8P7

NH disconnecter for mounting on disconnector cross member

NH 2 load disconnecter 400 A
without cover

1 ea.
6 ea.



ZH 45
ZH 45P6

Single cover for 1 disconnector NH2



ZH 46

Double cover for 1 disconnector NH2

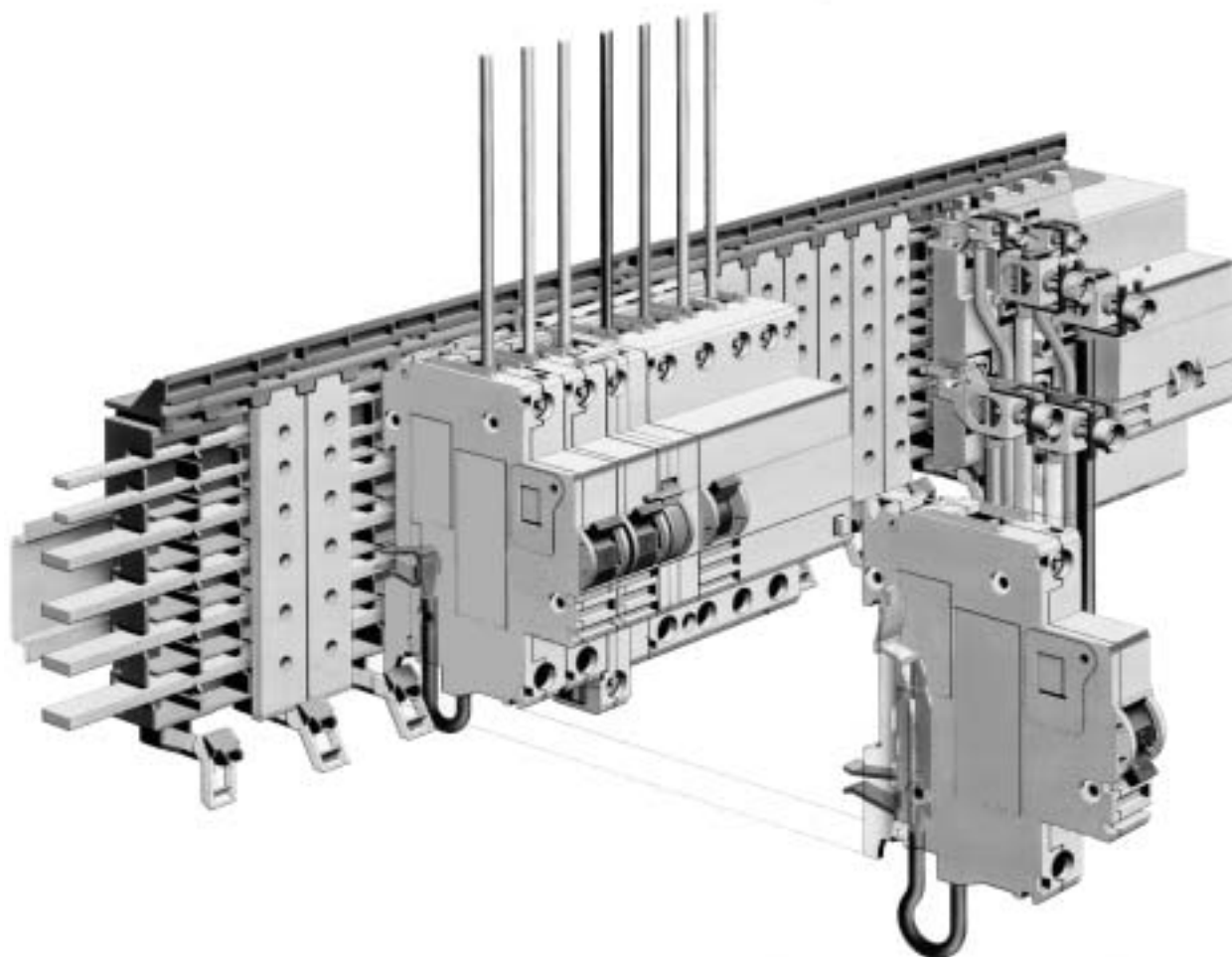


ZH 47



System smissline-S

The plug-in system for all your needs



Plug-in devices

- **Miniature circuit-breakers**
- **Circuit breaker**
- **Residual current device (RCD)**
- **Motor protection switch**

All the appropriate accessories are available, from auxiliary and signal contacts to plug-in undervoltage releases for the motor protection switch.

The advantages to you

- **Speed**
Major time savings during infeed and connection work thanks to the simple plug-in technology
- **System availability**
Problem-free replacement of the apparatus without interrupting operation (e.g. when changing electrical consumers)
- **Safety**
Direct cable assignment, resulting in fewer clamping points
- **Flexibility**
Changes and additions are possible in the distribution concept without any extra work

The plug-in devices for the System smissline-S can be found in the following catalogue:

**"Switching and control technology,
main catalogue 2002, Part 2"**

The catalogue can be ordered from:

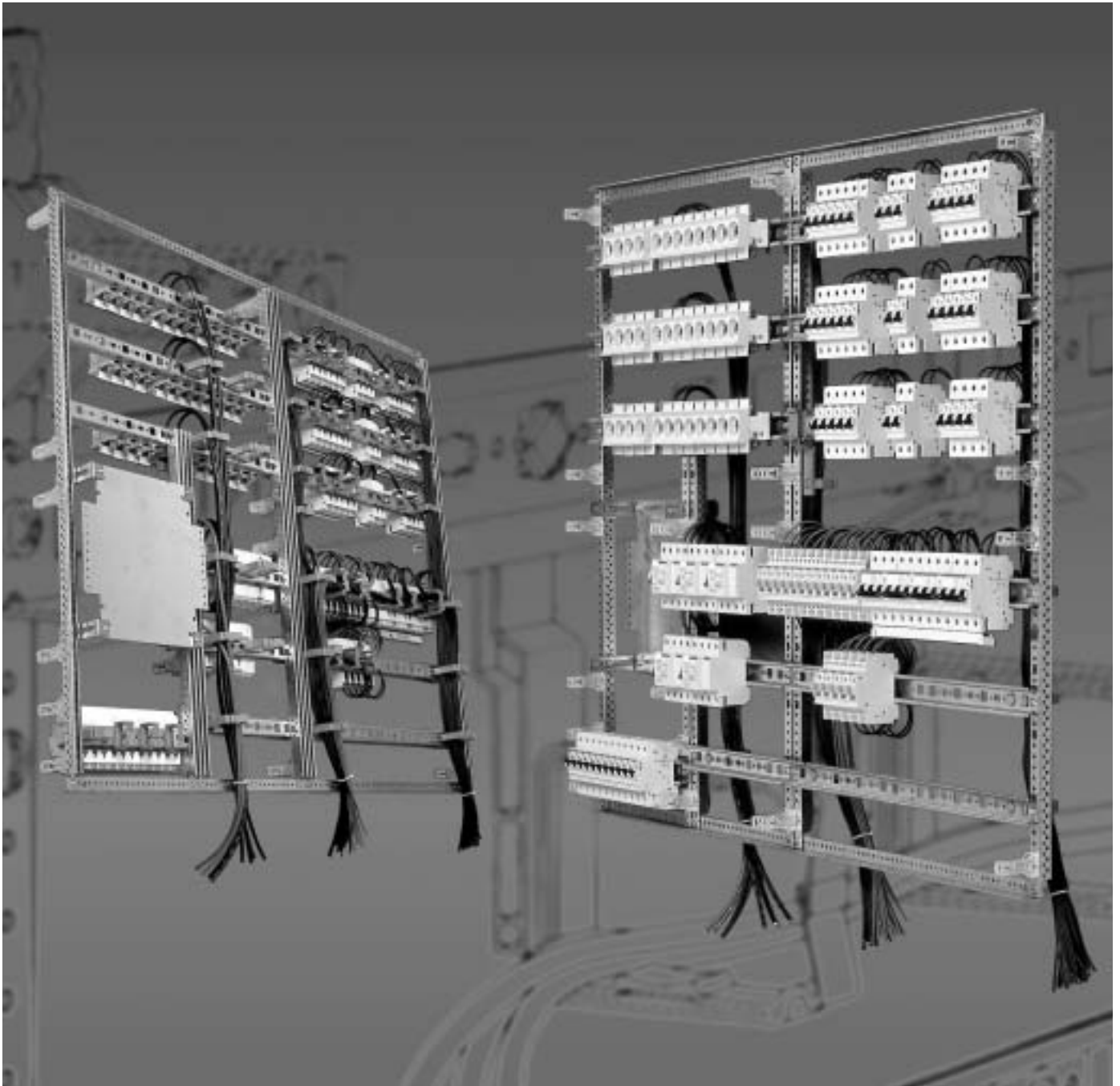
ABB STOTZ-KONTAKT GmbH
Eppelheimer Str. 82
69123 Heidelberg · Germany
e-mail: desst.info@de.abb.com



Notes



EDF fast assembly system



5 - 2 Combination-Sets

5 - 4 Distribution panels

5 - 7 TNF modules

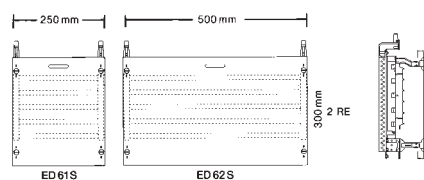
5 - 22 Mounting parts for distribution board panels/combination set

5 - 19 Mounting parts for distribution board panels/combination set



Combination sets (without device mounting)

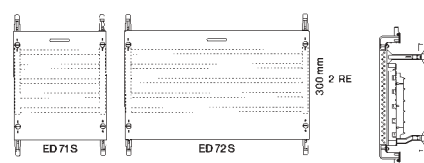
- The combination set simplifies storage and offers many combination possibilities for the panel builder of distribution and controller boards.
- Combination sets 1 and 2 panels wide can be fitted above, between or below the distribution board panels.
- Combinations of combination sets and distribution board panels must together have the same grid spacings as the cabinets in which they are installed.
- When two panels are assembled one above the other, panels that are 1 panel wide must be fitted above panels that are 1 panel wide and panels that are 2 panels wide must be fitted above panels that are 2 panels wide.



ED 61 S / ED 62 S

The combinations sets ED 61 S and ED 62 S have a 5-pole busbar system, 250 A, and are plugged into the distribution board panel from above or below. By also fitting another CU bar 12 x 5 mm (per conductor) (ZX 101 or ZX 102) it is possible to extend the busbar systems to 360 A. Busbar spacing 40 mm. Busbar connection terminals can be ordered separately.

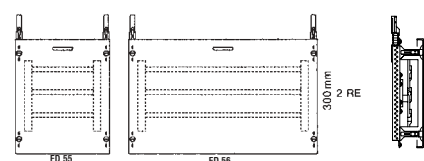
	Busbar		
	Single-panel	Two-panel connector	
Height	300	300	
RE	2	2	
Type	ED 61 S	ED 62 S	ZX 91



ED 71 S / ED 72 S

The design of the combinations sets ED 71 S and ED 72 S corresponds to the previous example, but they are installed between distribution board panels. By also fitting another CU bar 12 x 5 mm (per conductor) (ZX 101 or ZX 102) it is possible to extend the busbar systems to 360 A. Busbar spacing 40 mm. Busbar connection terminals can be ordered separately.

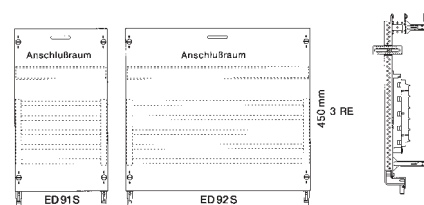
Height	300	300	
RE	2	2	
Type	ED 71 S	ED 72 S	ZX 91



ED 55/ED 56

Prepared for DO and D fuse bases. With busbar system 3x 250 A (CU 12 x 5). Busbar spacing 60 mm. Attachment at the top or bottom on the distribution board panel. Usable installation width for fuse base ED 55 – 160 mm and ED 56 – 410 mm. Cover with cut-out section. Busbar connection terminals can be ordered separately. Maximum input line connection 35 mm².

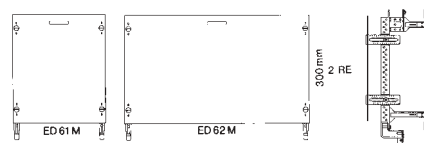
Height	300	300	
RE	2	2	
Type	ED 55	ED 56	ZX 110



ED 91 S / ED 92 S

If a lot of space is required during busbar installation for the input and output lines, or if a terminal also has to be installed, the ED 91 S and ED 92 S with additional steplessly adjustable DIN rail are suitable for attaching terminals. By also fitting another CU bar 12 x 5 mm (per conductor) (ZX 101 or ZX 102) it is possible to extend the busbar systems to 360 A.

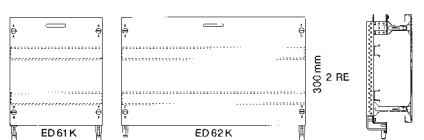
Height	450	450	
RE	3	3	
Type	ED 91 S	ED 92 S	ZX 91



ED 61 M / ED 62 M

The combination sets ED 61 M and ED 62 M have a mounting plate, the depth of which is steplessly adjustable, for fitting extremely deep devices. These sets are plugged into the distribution board panel at the top or bottom. Maximum installation depth between mounting plate and cover 178 mm (pay attention to the cabinet depth).

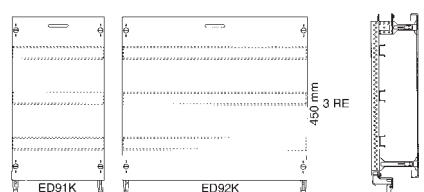
Height	300	300	
RE	2	2	
Type	ED 61 M	ED 62 M	



ED 61 K / ED 62 K

The combination sets ED 61 K and ED 62 K with deep-mounted DIN rails are primarily used to provide a generous terminal compartment and can be plugged into distribution board panels at the top or bottom. Terminal compartment 300 mm. Suitable for terminal blocks up to 95 mm². Use ZK 90 P2 insulating pieces in order to fit DIN rails with double insulation. Use the extra-deep brackets ED 33 P2 in order to fit DIN rails to the rear.

Height	300	300	
RE	2	2	
Type	ED 61 K	ED 62 K	



ED 91 K / ED 92 K

The combination sets ED 91 K and ED 92 K with deep-mounted DIN rails are primarily used to provide a generous terminal compartment and can be plugged into standard panels at the top or bottom. Terminal compartment 450 mm. Suitable for terminal blocks up to 95 mm². Use ZK 90 P2 insulating pieces in order to fit DIN rails with full insulation. Use the extra-deep brackets ED 33 P2 in order to fit DIN rails to the rear.

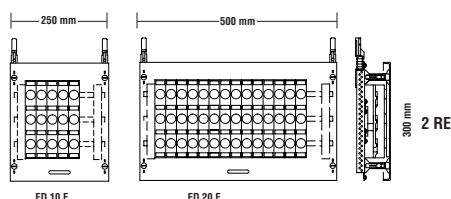
Height	450	450	
RE	3	3	
Type	ED 91 K	ED 92 K	



Combination sets (with device mounting)

- In the case of floor standing cabinets and switchgear cabinets two panel combinations must be installed one above the other.
- Busbar connectors can be ordered separately.

- Busbar connection terminals can be ordered separately
- The combination sets are fitted with fuse bases DO2 elements or NH00 fuse switch-disconnectors.



ED 10 E/ ED 20 E

The combinations sets ED 10 E and ED 20 E have a 3-pole busbar system, 250 A, and are plugged into the distribution board panel from above or below. The scope of delivery includes 5 x 3 or 14 x 3 fuse bases DO2. Busbar spacing 60 mm. Busbar connection terminals can be ordered separately.

Maximum input line connection 35 mm²

ED 11 E/ ED 21 E

The design of the combinations sets ED 11 E and ED 21 E corresponds to the previous example. The scope of delivery includes 3 x 3 fuse bases E27 or 2 x 3 fuse bases E27 and 5 x 3 fuse bases E 33 N. Busbar spacing 60 mm. Busbar connection terminals can be ordered separately.

Maximum input line connection 35 mm²

ED 12 T/ ED 21 T

The combination sets ED 12 T and ED 21 T have a 5-pole busbar system, 250A, and are plugged into the distribution board panel at the top or bottom. With one or three NH00 fuse switch-disconnectors. Busbar spacing 40 mm. Busbar connection terminals can be ordered separately.

ED 13 T/ ED 22 T

The combination sets ED 13 T and ED 22 T have a 5-pole busbar system, 250A, and are plugged into the distribution board panel at the top or bottom. With two or four NH00 fuse switch-disconnectors. Busbar spacing 40 mm. With these combination sets, the combination set ED 61 S must also be fitted at the side in order to connect the input line. Busbar connection terminals can be ordered separately.

single-panel / two-panel Busbar connector

Height	300	300	
RE	2	2	
Type	ED 10E	ED 20E	ZX 110

Height	300	300	
RE	2	2	
Type	ED 11E	ED 21E	ZX 110

Height	300	300	
RE	2	2	
Type	ED 12T	ED 21T	ZX 91

Height	300	300	
RE	2	2	
Type	ED 13T	ED 22T	ZX 91



Distribution board panels for meter back-up fuse enclosures (without device mounting)

Overall height Grid spacing

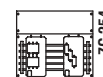
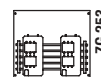
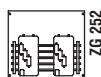
| 250 mm | | 500 mm | | 250 mm | | 500 mm | | 500 mm |

00	3 RE	36	72	36	72	36	Space units	Busbar connector

These panels are not suitable for attaching combination sets or distribution board panels (only possible with conversion)

Type

1V003 2V003 1V004 2V004 2V005 ZX 91



Configuration:

5-pole busbar system 12 x 5 mm CU, 250A, busbar spacing 40 mm, cover made of halogen-free fibreglass-reinforced polyester. Cover with openings for NH fuse bases, Size 00, and with transparent device cover flap. Busbar connection terminals can be ordered separately.

Distribution board panels (without device mounting)

■ For installation in all modular cabinets.

Applicable standards:
VDL 0603, 43870, 43880

■ Distribution board panels or panel combinations must have the same grid spacings as the cabinets in which they are installed.

■ In the case of floor standing cabinets and switchgear cabinets, two panels or panel combinations must be installed one above the other

■ Without N and PE terminal bars

Overall height	Grid spacings	For modular DIN-rail components				For modular DIN-rail components and terminal blocks			
		250 mm	500 mm	250 mm	500 mm	250 mm	500 mm	250 mm	500 mm
00	3 RE	36	72						
Type		1 V 00	2 V 00						
	450 mm								
0	4 RE	48	96			48	96		
Type		1 V 0	2 V 0			1 V 0K	2 V 0K		
	600 mm								
1	5 RE	60	120			60	120		
Type		1 V 1	2 V 1			1 V 1K	2 V 1K		
	750 mm								
2	6 RE	72	144	72	144	72	144	72	144
Type		1 V 2	2 V 2	1 V 23	2 V 23	1 V 2K	2 V 2K	1 V 23 K	2 V 23 K
	900 mm								
3	7 RE	84	168			84	168		
Type		1 V 3	2 V 3			1 V 3K	2 V 3K		
	1050 mm								
4	8 RE	96	192			96	192		
Type		1 V 4	2 V 4			1 V 4K	2 V 4K	1 V 43	2 V 43
	1200 mm								
5	9 RE	108	216			108	216	96	192
Type		1 V 5	2 V 5			1 V 5K	2 V 5K		
	1350 mm								

Distribution board panels (without device mounting)

■ Disconnector panels are prepared for the installation of NH fuse disconnectors. Make: Striebel & John, Jung, Elen, Jean Müller and ABB. Use the matching covers.

■ When two panels are assembled one above the other, panels that are 1 panel wide must be fitted above panels that are 1 panel wide and panels that are 2 panels wide must be fitted above panels that are 2 panels wide

Partitions

Not resistant to arcing, i.e. distribution board panel against meter panel or distribution board panel against distribution board panel.



With mounting plate		With cover (empty panel)		For modular DIN-rail components, terminal blocks and NH fuse disconnectors Size 00 and 1				With busbars		Space unit
250 mm	500 mm	250 mm	500 mm	250 mm	250 mm	500 mm	250 mm	250 mm	500 mm	
36	72	36	72	36			36	36	72	ZX 69
1 M 00	2 M 00	1 B 00	2 B 00	1 T 002			1 T 003	1 V 002	2 V 002	
48	96	48	96	48	48	96	48			ZX 70
1 M 0	2 M 0	1 B 0	2 B 0	1 T 02	1 T 0	2 T 0	1 T 03	1 V 02	2 V 02	
60	120	60	120	60	60	120	60			ZX 71
1 M 1	2 M 1	1 B 1	2 B 1	1 T 12	1 T 1	2 T 1	1 T 13			
72	144	72	144	72	72	144	72			ZX 72
1 M 2	2 M 2	1 B 2	2 B 2	1 T 22	1 T 2	2 T 2	1 T 23			
84	168	84	168	84	84	168	84			ZX 73
1 M 3	2 M 3	1 B 3	2 B 3	1 T 32	1 T 3	2 T 3	1 T 33			
96	192	96	192	96	96	192	96			ZX 74
1 M 4	2 M 4	1 B 4	2 B 4	1 T 42	1 T 4	2 T 4	1 T 43			
108	216	108	216	108	108	216	108			ZX 75
1 M 5	2 M 5	1 B 5	2 B 5	1 T 52	1 T 5	2 T 5	1 T 53			



Device mounting on distribution board panels



Panels for modular DIN rail components

Configuration:

DIN rail 35 x 15 mm for device installation and with special hole grid for the wiring system. DIN rail spacing 125 mm. Covers made of halogen-free fibreglass-reinforced polyester. Openings for modular DIN-rail components DIN 43880 for 12 PLE (216 mm) per panel width.



Panels for attachable switchgear terminal blocks

Configuration:

DIN rail 35 x 15 mm for terminal blocks with foot attachment and with special hole grid for the wiring system. DIN rail spacing 125 mm. Covers made of halogen-free fibreglass-reinforced polyester (covers closed). Use ZK 90 P2 insulating pieces in order to fit DIN rails with double insulation. Use the extra-deep brackets ED 33 P2 in order to fit DIN rails to the rear.



Panels with mounting plates

Configuration:

Mounting plate made of sheet steel ST 1203 surface Sendzimir-galvanized, material thickness 2 mm. The mounting plate is mounted on extra-deep brackets and its depth is steplessly adjustable. Maximum installation depth between mounting plate and cover 143 mm (pay attention to cabinet depth). Cover made of halogen-free fibreglass-reinforced polyester (cover closed).



Cover panels (or for removing with assembly parts)

Configuration:

Empty panel without installation depth. Cover made of halogen-free fibreglass-reinforced polyester (cover closed).



Panels for fuse switch-disconnectors Size 00 (160 A)

Configuration:

Cross-rail for disconnector mounting. Universal mounting on sliding rail system for adapting to different fastening holes (M6 thread). Covers made of halogen-free fibreglass-reinforced polyester. Covers with openings for fuse switch-disconnectors tailored to cover dimensions (without disconnector).



Panels for fuse switch-disconnectors Size 1 (250 A)

Configuration:

Cross-rail for disconnector mounting. Universal mounting on sliding rail system for adapting to different fastening holes (M8 thread). Covers made of halogen-free fibreglass-reinforced polyester. Covers with openings for fuse switch-disconnectors tailored to cover dimensions (without disconnector).



Panels with busbars

Configuration:

5-pole busbar system
12 x 5 CU, 250A, busbar spacing 40 mm, covers made of halogen-free fibreglass-reinforced polyester (covers closed).

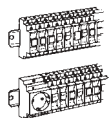


TNF modules

Cover halogen-free fibreglass-reinforced plastic
Material thickness 3 mm with 90° press and turn closures

Module type:

Modular DIN rail component module



For built-in devices conforming to DIN 43880
Mounting with DIN profile rails
35 x 15 mm
Rail spacing 125 mm

Grid spacing

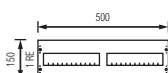
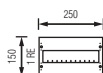
Width 250

Width 500

1

Type TNF 101
PLE 12

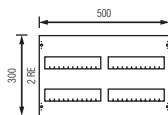
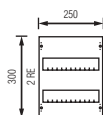
Type TNF 201
PLE 24



2

Type TNF 102
PLE 24

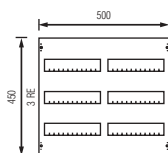
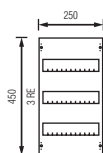
Type TNF 202
PLE 48



3

Type TNF 103
PLE 36

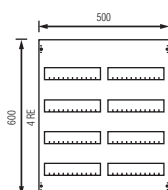
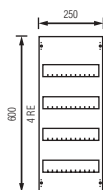
Type TNF 203
PLE 72



4

Type TNF 104
PLE 48

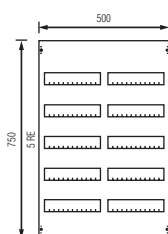
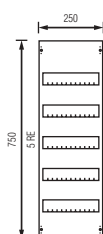
Type TNF 204
PLE 96



5

Type TNF 105
PLE 60

Type TNF 205
PLE 120



Module type:

Mounting plate module

Mounting plates made of 2 mm sheet steel,
Sendzimir galvanised
Deep-mounting bracket ED 33P2
Depth and height adjustable

Grid spacing

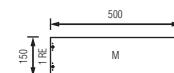
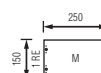
Width 250

Width 500

1

Type TNF 111
PLE 12

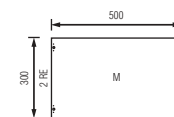
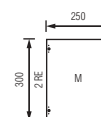
Type TNF 211
PLE 24



2

Type TNF 112
PLE 24

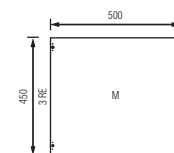
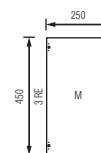
Type TNF 212
PLE 48



3

Type TNF 113
PLE 36

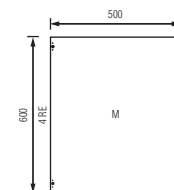
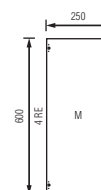
Type TNF 213
PLE 72



4

Type TNF 114
PLE 48

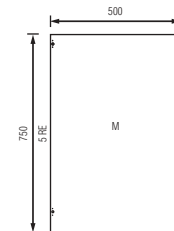
Type TNF 214
PLE 96



5

Type TNF 115
PLE 60

Type TNF 215
PLE 120

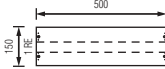
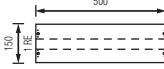
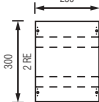
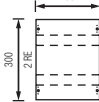
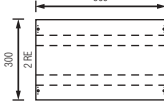
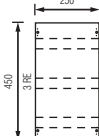
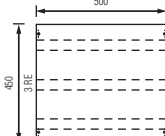
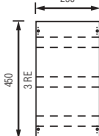
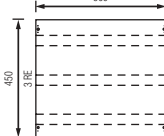
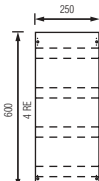
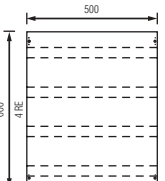
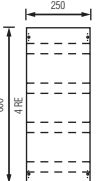
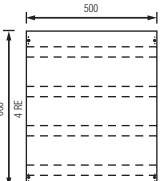
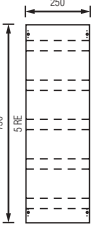
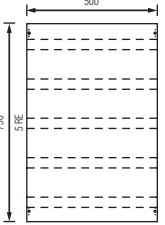
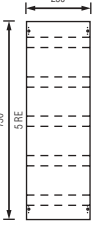
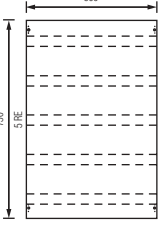




TNF modules

Cover halogen-free fibreglass-reinforced plastic

Material thickness 3 mm with 90° press and turn closures

Module type: Terminal block module 			Module type: Terminal block module 		
With DIN profile rails 35 x 15 mm			With DIN profile rails 35 x 15 mm		
I _N 100 A protection class 1 DIN profile rails grounded On deep-mounting bracket ED 33P2, depth and height adjustable.			I _N 100 A protection class 2 DIN profile installed insulated On deep-mounting bracket ED 33P2, depth and height adjustable.		
Grid spacing	Width 250	Width 500	Grid spacing	Width 250	Width 500
1	Type TNF 106 PLE 12 	Type TNF 206 PLE 24 	1	Type TNF 106S PLE 12 	Type TNF 206S PLE 24 
2	Type TNF 107 PLE 24 	Type TNF 207 PLE 48 	2	Type TNF 107S PLE 24 	Type TNF 207S PLE 48 
3	Type TNF 108 PLE 36 	Type TNF 208 PLE 72 	3	Type TNF 108S PLE 36 	Type TNF 208S PLE 72 
4	Type TNF 109 PLE 48 	Type TNF 209 PLE 96 	4	Type TNF 109S PLE 48 	Type TNF 209S PLE 96 
5	Type TNF 110 PLE 60 	Type TNF 210 PLE 120 	5	Type TNF 110S PLE 60 	Type TNF 210S PLE 120 



TNF modules

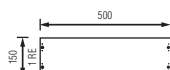
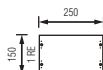
Cover halogen-free fibreglass-reinforced plastic
Material thickness 3 mm with 90° press and turn closures

Module type: Touch guard module

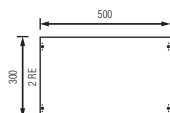
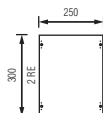
Empty module

Grid spacing Width 250 Width 500

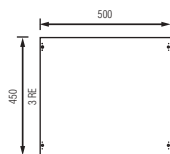
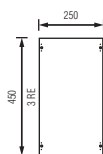
1 **Type TNF 116** PLE 12 **Type TNF 216** PLE 24



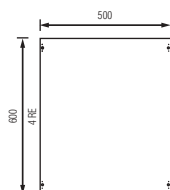
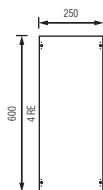
2 **Type TNF 117** PLE 24 **Type TNF 217** PLE 48



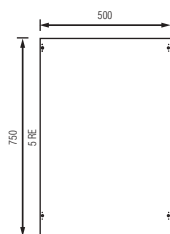
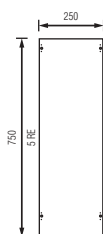
3 **Type TNF 118** PLE 36 **Type TNF 218** PLE 72



4 **Type TNF 119** PLE 48 **Type TNF 219** PLE 96



5 **Type TNF 120** PLE 60 **Type TNF 220** PLE 120

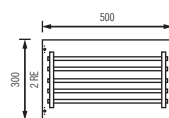
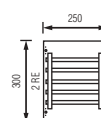


Module type: Busbar module

Fitted with Cu rails
on deep-mounting bracket ED 33P2

Grid spacing Width 250 Width 500

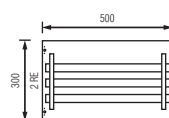
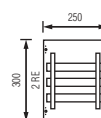
2 **Type TNF 124B** PLE 24 **Type TNF 224B** PLE 48



Fittings / technical

Cu rail: 12 x 5 mm
Number of poles: 5
Current: 250 A
Rail
spacing: 40 mm
Busbar
support ZB5

2 **Type TNF 127B** PLE 24 **Type TNF 227B** PLE 48



Fittings / technical

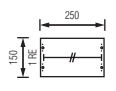
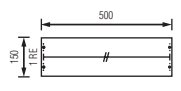
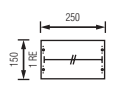
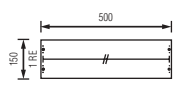
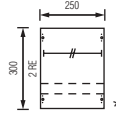
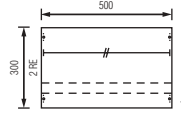
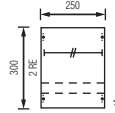
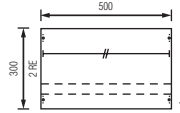
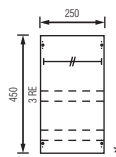
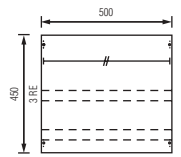
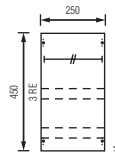
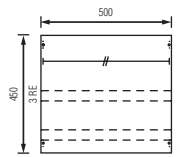
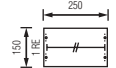
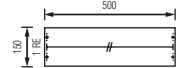
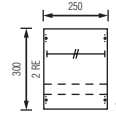
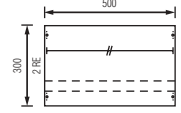
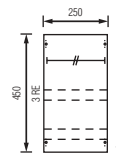
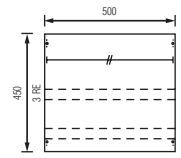
Cu rail: 30 x 5 mm
Number of poles: 3
Current: 440 A
Rail
spacing: 60 mm
Busbar
support ZX151



TNF modules

Cover halogen-free fibreglass-reinforced plastic

Material thickness 3 mm with 90° press and turn closures

Module type: N/PE rail module 			Module type: N/PE rail module 		
N/PE rail 12 x 5 mm Cu 250 A Height 300 mm and 450 mm with additional DIN rails 35 x 15 mm on ED33P2* Protection class 1 DIN rail support ZX 518			N/PE rail 12 x 5 mm Cu 250A Height 300 mm and 450 mm with additional DIN rails 35 x 15 mm on ED33P2* Protection class 2 Bus bar support ZX 518		
Grid spacing	Width 250	Width 500	Grid spacing	Width 250	Width 500
1	Type TNF 165B PLE 12 	Type TNF 265B PLE 24 	1	Type TNF 165SB PLE 12 	Type TNF 265SB PLE 24 
2	Type TNF 166B PLE 24 	Type TNF 266B PLE 48 	2	Type TNF 166SB PLE 24 	Type TNF 266SB PLE 48 
3	Type TNF 167B PLE 36 	Type TNF 267B PLE 72 	3	Type TNF 167SB PLE 36 	Type TNF 267SB PLE 72 
Module type: N/PE rail module 					
N + PE rail 20 x 5 mm Cu 320 A Height 300 mm and 450 mm with additional DIN rails 35 x 15 mm on ED33P2* Protection class 1 Bus bar support ZX 518					
Grid spacing	Width 250	Width 500			
1	Type TNF 169B PLE 12 	Type TNF 269B PLE 24 			
2	Type TNF 170B PLE 24 	Type TNF 270B PLE 48 			
3	Type TNF 171B PLE 36 	Type TNF 271B PLE 72 			



TNF modules

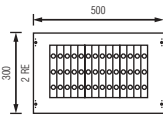
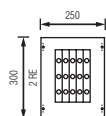
Cover halogen-free fibreglass-reinforced plastic

Material thickness 3 mm with 90° press and turn closures

Module type: DO 2 busbar-mounted fuse element module

Fitted with busbar-mounted fuse elements DO 2
on busbar system Cu 12 x 5 mm
250 A
3-pole
Connection terminals 35 mm² ZK 81
Busbar support ZX 151
Rail spacing 60 mm

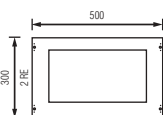
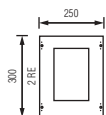
Grid spacing	Width 250	Width 500
2	Type TNF 1 D02R B PLE 24	Type TNF 2 D02R B PLE 48
Fitting	5 x 3 x D02	14 x 3 x D02



Module type: DO 2 busbar-mounted fuse element module

Empty module, cover with cut-out
Fitted with busbar system Cu 12 x 5 / 250 A
3-pole, without fuse elements
Connection terminals 35 mm² ZK 81
Busbar support ZX 151
Rail spacing 60 mm

Grid spacing	Width 250	Width 500
2	Type TNF 1 D02R PLE 24	Type TNF 2 D02R PLE 48
Space for :	5 x 3 x D02 cut-out 134 x 195 mm	14 x 3 x D02 cut-out 374 x 195 mm

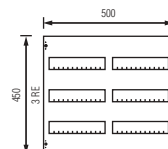
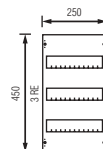
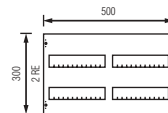
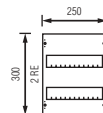
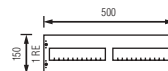
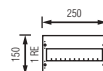


Module type: EIB bus module

Prepared for fixing EIB data buses
on DIN rails 35 x 7.5 mm

Rail spacing 125 mm

Grid spacing	Width 250	Width 500
1	Type TNF 101EIB PLE 12	Type TNF 201EIB PLE 24
2	Type TNF 102EIB PLE 24	Type TNF 202EIB PLE 48
3	Type TNF 103EIB PLE 36	Type TNF 203EIB PLE 72





TNF modules

Cover halogen-free fibreglass-reinforced plastic

Material thickness 3 mm with 90° press and turn closures

Module type: NH fuse switch disconnecter module NH 00

Fitted with NH 00
Fuse switch disconnectors 160 A
and busbar system Cu 20 x 5
with connection screws M 8

Grid spacing	Width 250	Width 500
2	Type TNF 136B PLE 24	Type TNF 236B PLE 48
Fitting	2 x NH 00	4 x NH 00

4	Type TNF 137B PLE 48	Type TNF 237B PLE 96
Fitting	4 x NH 00	8 x NH 00

Module type: NH fuse switch disconnecter module NH 1

Fitted with NH1 fuse switch
disconnectors 250 A
also with busbar system
Cu 30 x 5 mm with connection screws M 8
TXG 142 B without busbar

Grid spacing	Width 250	Width 500
3	Type TNF 142B PLE 36	Type TNF 242B PLE 72
Fitting	1 x NH 1	2 x NH 1

5	Type TNF 143B PLE 60
Fitting	2 x NH 1

Module type: NH fuse switch disconnecter module NH 00

Modules prepared for NH 00 fuse switch disconnecter 160 A
for the following makes: Striebel & John, Jean Müller, Wöhner, Efen, Lindner, Jung

Grid spacing	Width 250	Busbar system	Width 500	Busbar system
2	Type TNF 136 PLE 24	Type ZH 214 CU 20 x 5/320 A	Type TNF 236 PLE 48	Type ZH 211 CU 20 x 5/320 A
Space for	2 x NH 00		4 x NH 00	

4	Type TNF 137 PLE 48	Type ZH 216 CU 20 x 5/320 A	Type TNF 237 PLE 96	ZH 212 CU 20 x 5/320 A
Space for	4 x NH 00		8 x NH 00	

Module type: NH fuse switch disconnecter module NH 1

Modules prepared for NH fuse switch disconnecter 250 A
for the following makes: Striebel & John, Jean Müller,
Wöhner, Efen, Lindner, Jung

Grid spacing	Width 250	Width 500	Busbar system
3	Type TNF 142 PLE 36	Type TNF 242 PLE 72	Type ZH 217 CU 30 x 5/440 A
Space for	1 x NH 1	2 x NH 1	

5	Type TNF 143 PLE 60
Space for	2 x NH 1



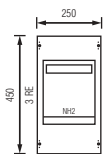
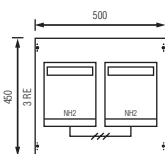
TNF modules

Cover halogen-free fibreglass-reinforced plastic

Material thickness 3 mm with 90° press and turn closures

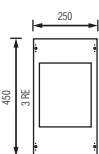
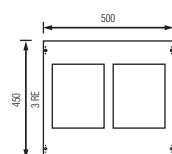
Module type: NH2 fuse switch disconnecter module 400 A

Fitted with NH2 fuse switch disconnecter 400 A
TNF 244 B also with
busbar system 440 A
Cu 30 x 5 mm
with connection screws M 8

Grid spacing	Width 250	Width 500
3	Type TNF 144B PLE 36	Type TNF 244B PLE 72
		
Fitted	1 x NH 2	2 x NH 2

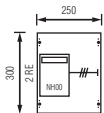
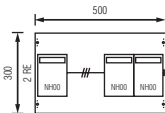
Module type: NH2 fuse switch disconnecter module 400 A

Empty modules prepared for NH2 fuse switch disconnecters 400A
for the following makes: Striebel & John, Jean Müller,
Wöhner, Efen, Lindner, Jung

Grid spacing	Width 250	Width 500	Busbar system
3	Type TNF 144 PLE 36	Type TNF 244 PLE 72	ZH 217 CU 30 x 5/440A
			
Space for	1 x NH 2	2 x NH 2	

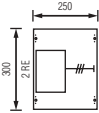
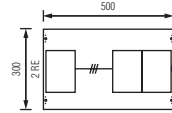
Module type: NH 00 disconnecter adapter module

Fitted with NH 00 fuse switch disconnecter
160 A on busbar system 12 x 5 mm
250A
Connection terminals 50 mm² ZK 1500
Busbar support ZX 387
Rail spacing 40 mm

Grid spacing	Width 250	Width 500
2	Type TNF 150B PLE 24	Type TNF 250B PLE 48
		
Fitted	1 x NH 00	3 x NH 00

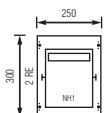
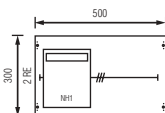
Module type: NH 00 disconnecter adapter module

Empty module prepared for NH 00
fuse switch disconnecter
with busbar system
12 x 5 Cu, 250 A
Busbar support ZX 387
Rail spacing 40 mm

Grid spacing	Width 250	Width 500
2	Type TNF 150 PLE 24	Type TNF 250 PLE 48
		
Space for	1 x NH 00	3 x NH 00

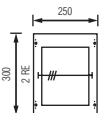
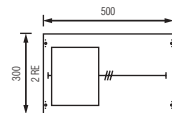
Module type: NH 1 disconnecter adapter module

Fitted with NH 1 fuse switch disconnecter 250A
on busbar system 12 x 5 mm, 250 A
Connection terminals 50 mm² ZK 150
Busbar support ZX 387
Rail spacing 40 mm

Grid spacing	Width 250	Width 500
2	Type TNF 151B PLE 24	Type TNF 251B PLE 48
		
Fitted	1 x NH 1	1 x NH 1

Module type: NH 1 disconnecter adapter module

Empty module prepared for NH 1
fuse switch disconnecter with
busbar system
12 x 5 Cu, 250 A
Busbar support ZX 387
Rail spacing 40 mm

Grid spacing	Width 250	Width 500
2	Type TNF 151 PLE 24	Type TNF 251 PLE 48
		
Space for	1 x NH 1	1 x NH 1



TNF modules

Cover halogen-free fibreglass-reinforced plastic

Material thickness 3 mm with 90° press and turn closures

Module type: NH fuse circuit breaker module			Module type: NH fuse circuit breaker module		
Fitted with NH fuse circuit breaker Size NH 00 160 A busbar system 30 x 10 mm 3-pole Busbar spacing 100 mm Busbar support ZX 520			Fitted with busbar support on lowering bracket prepared for NH fuse circuit breaker NH 00 Busbar spacing 100 mm Busbar support ZX 520		
Grid spacing	Width 250	Width 500	Grid spacing	Width 250	Width500
3	Type TNF 152B PLE 36	Type TNF 252B PLE 72	3	Type TNF 152 PLE 36	Type TNF 252 PLE 72
Fitting	3 x NH 00	6 x NH 00	Space for	max. 3 x NH 00	max. 6 x NH 00



TNF modules

Cover halogen-free fibreglass-reinforced plastic

Material thickness 3 mm with 90° press and turn closures

Module type:	Load/circuit breaker module
--------------	-----------------------------

Cover closed
Empty module, prepared for the following makes:
ABB Series: OETL
ABB Series: SACE / Isomax
AEG / GE Series: MC8
Merlin Gerin Series: NS
Terasaki Series: BS
Siemens Series: 3VF
Moeller Series: NZM, NZM,P
Socomec Series: SIRCO

Grid spacing	Width 250
--------------	-----------

2	for switch 63-250A Type TNF 250A PLE 24	
---	--	--

3	for switch 400A Type TNF 400A PLE 72	
---	---	--

Module type:	Load breaker module
--------------	---------------------

Cover with cut-out
Empty module, prepared for the following makes:
ABB Series: OT, 100 A
Socomec Series: SIRCO 400 A

Grid spacing	Width 250
--------------	-----------

2	for switch 100A Typ ZE 171 Type TNF 100LA PLE 24	
---	---	--

3	for switch 400A Type ZE 174 Type TNF 400LA PLE 36	
---	--	--



Mounting parts for distribution board panels / combination sets

DIN rail 35 x 15 mm

(Galvanised sheet steel)

		1 panel wide	2 panels wide	3 panels wide	4 panels wide	2000 mm
with special hole pattern for the EDF wiring system	Length (mm) 1 ea. Type	244 ED 1	494 ED 2	744 ED 3	994 ED 4	2000 ED 6

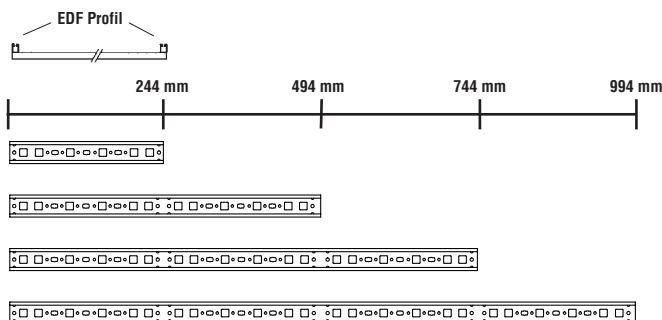


30 ea. **Type**

ED 1P30

ED 2P30

ED 3P30



for recessed mounting with deep-mounting bracket ED 33P2 on EDF profile

Length (mm)
1 ea. **Type**

188
ED 51

446
ED 52

696
ED 53

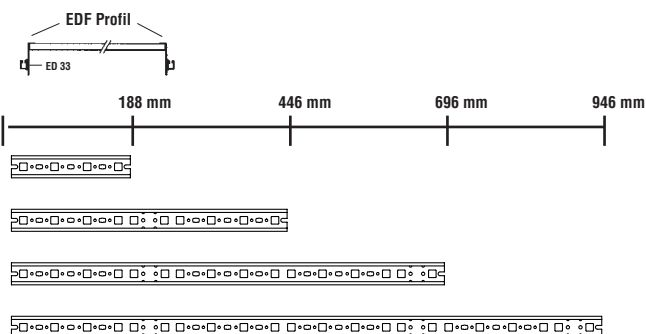
946
ED 54

30 ea. **Type**

ED 51P30

ED 52P30

ED 53P30



Type

**Fastening screws
for DIN rails**
20 ea.
500 ea.



**ZB 28P20
ZB 28P500**

Insulation piece
2 ea.
for DIN rail 35 x 7.5 mm
and 35 x 15 mm
with fastening material



ZK 90P2

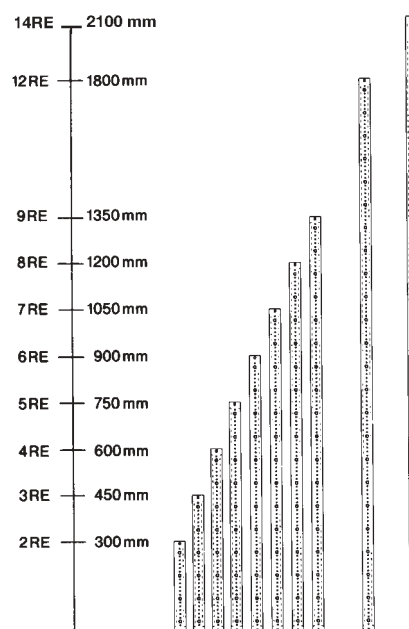


Mounting parts for distribution board panels / combination sets

EDF profile

for distribution panels up to 400 A and meter panels

		Overall height 000	Overall height 00	Overall height 0	Overall height 1	Overall height 2
	Length (mm)	300	450	600	750	900
	Grid spacing every 150 mm	2	3	4	5	6
	1 ea. Type	ED 8	ED 9	ED 10	ED 11	ED 12
	20 ea. Type	ED 8P20	ED 9P20	ED 10P20	ED 11P20	ED 12P20
		Overall height 3	Overall height 4	Overall height 5	Overall height 8	Overall height 10
	Length (mm)	1050	1200	1350	1800	2100
	Grid spacing every 150 mm	7	8	9	12	14
	1 ea. Type	ED 13	ED 14	ED 15	ED 18	ED 20
	20 ea. Type	ED 13P20	ED 14P20	ED 15P20		



Type

Fastening screws for EDF profile
20 ea.

ZB 36P20



Cross rail, 2 panels
1 ea.
for panel division on
distribution board panels
and TNF modules

ED 112





Mounting parts for distribution board panels / combination sets

Article	Type
Mounting parts for EDF profile rails	
Panel connectors (pair) for any combination of distribution boards or EDF profile rails up to maximum 9 grid spacings	ED 30P2
Lowering connectors (pair) for compensating lower mounting levels in the case of busbar and mounting panels up to maximum 9 grid spacings	ED 31P2
Lowering brackets (pair) for compensating lower mounting levels with the normal attachment level of the distribution board panels at the top or bottom attachment point.	ED 32P2
Deep-mounting brackets (pair) steplessly adjustable (e.g. for mounting plates). Maximum installation depth in the case of distribution board panels between deep-mounting bracket and cover 135 mm 2 ea. 100 ea.	ED 33P2 ED 33P100
Mounting plates for mounting on deep-mounting brackets ED 33P2 Galvanised sheet steel 2 mm	
1 panel wide: H x W	
1 grid spacing 116 x 196 mm	ZW 365
2 grid spacing 266 x 196 mm	ZW 338
3 grid spacing 416 x 196 mm	ZW 341
4 grid spacing 566 x 196 mm	ZW 344
5 grid spacing 716 x 196 mm	ZW 362
2 panels wide: H x W	
1 grid spacing 116 x 446 mm	ZW 336
2 grid spacing 266 x 446 mm	ZW 339
3 grid spacing 416 x 446 mm	ZW 342
4 grid spacing 566 x 446 mm	ZW 345
5 grid spacing 716 x 446 mm	ZW 363
Cross rail for disconnector attachment with fastening screw and captive nuts for 2 disconnectors Size 00, 1 panel wide 1 ea. 10 ea.	ZX 31 ZX 31P10
4 disconnectors Size 00, 2 panels wide 1 ea. 10 ea.	ZX 34 ZX 34P10
1 disconnector Size 1, 250 A, 1 panel wide	ZH 235
Captive nuts (10 ea.) for disconnector cross members	
(ZX 31, ZX 34) M6	ZX 297P10
(ZH 235) M8	ZX 298P10

Article	Type
Panel connector 4 ea. for connecting racks next to each other, with 16 self-tapping screws	ZX 66P4
Partitions, plastic, not arc-resistant, for A, U, FS cabinets	
Vertical Distribution board panel against distribution board panel or meter panel against distribution board panel. overall height 00 overall height 0 overall height 1 overall height 2 overall height 3 overall height 4 overall height 5	ZX 69 ZX 70 ZX 71 ZX 72 ZX 73 ZX 74 ZX 75
Horizontal inserted between the cover holders 1 panel wide 2 panels wide	ZX 86 ZX 87
Partitions, sheet steel, not arc-resistant	
Vertical Distribution board panel against distribution board panel for A, U, FS cabinets overall height 00 overall height 0 overall height 1 overall height 2 overall height 3 overall height 4 overall height 5	ZX 469 ZX 470 ZX 471 ZX 472 ZX 473 ZX 474 ZX 475
for G cabinets overall height 00 overall height 0 overall height 1 overall height 2 overall height 3 overall height 4 overall height 5	ZX 479 ZX 480 ZX 481 ZX 482 ZX 483 ZX 484 ZX 485
for C cabinets overall height 00 overall height 0 overall height 1 overall height 2 overall height 3 overall height 4 overall height 5	ZX 489 ZX 490 ZX 491 ZX 492 ZX 493 ZX 494 ZX 495
Horizontal inserted between the cover holders for A, U, FS cabinets 1 panel wide 2 panels wide	ZX 502 ZX 503
for G cabinets 1 panel wide 2 panels wide	ZX 497 ZX 498
for C cabinets 1 panel wide 2 panels wide	ZX 500 ZX 501



Wiring system and cover parts

Article Type

Wiring system

Wire holder

for routing the wires,
installation depth 28.5 mm, to be
inserted from the back into the DIN rail.
10 ea.
50 ea.



ED 44P10
ED 44P50

Wire holder

for routing the wires or for holding a pla-
stic tube Ø 38 mm, installation
depth 55 mm to be inserted
from the back into
the DIN rail.
10 ea.
50 ea.



ED 45P10
ED 45P50

DIN rail adapter

for ED 44 and ED 45
to be snapped from the front
onto the DIN rail
10 ea.



ED 59P10

Console

for the wire holders ED 44 and ED 45, to
be inserted from the back into
the DIN rail.
10 ea.



ED 42P10

Console

for the wire holders ED 44 and ED 45, to be
snapped from the front onto the DIN rail.
10 ea.



ED 43P10

Cover

as screen panel for wire routing in the
wire holders ED 44 and ED 45, 1 m long.



ED 47

Spacers

10 ea.
for high or deep mounting of
device rails
incl. screws
Spacers

10 mm long
15 mm long
20 mm long
25 mm long
30 mm long
40 mm long
50 mm long



ZB 61P10
ZB 62P10
ZB 63P10
ZB 64P10
ZB 65P10
ZB 67P10
ZB 69P10

Spacer profile as above, per running metre

ZB 70

for distribution board panels 1 panel wide

N and PE rails with holder
each with 23 x 10 + 4 x 16 mm²



ZK 219

Article Type

Cover parts

Cover holder 52.5 mm high

for attaching (insert, turn) on rails of the
EDF fast assembly system and for engaging
a partition (see below). Use only this
cover holder with DIN profile
rails 35 x 15 mm.
12 ea.
40 ea.



ED 38P12
ED 38P40

Cover holder 88 mm high

(as described above). Use when installing
devices with greater depths or in conjunction
with busbar systems. Can also be used for
attaching a partition (see below).
4 ea.



ED 39P4

DIN rail adapter

for cover holders ED 38 and ED 39
Snap from the front onto the DIN rail.
10 ea.



ED 58P10

90 degree press and turn closure

12 ea.



ED 50P12

Spacer

for extending the cover holder
by 25 mm.
4 ea.



ED 29P4

Screw insert

for metric thread, M5, for attaching
plates made of Macrolon, sheet metal
or aluminium onto the standard
EDF cover holders.
4 ea.



ED 40P4

90 degree press and turn closure

for attaching plates made of Macrolon,
sheet metal or aluminium onto the stan-
dard EDF cover holders.
4 ea.



ED 41P4

Partitions not arc-resistant

Distribution board panel against distribution board
panel or meter panel against distribution board panel.

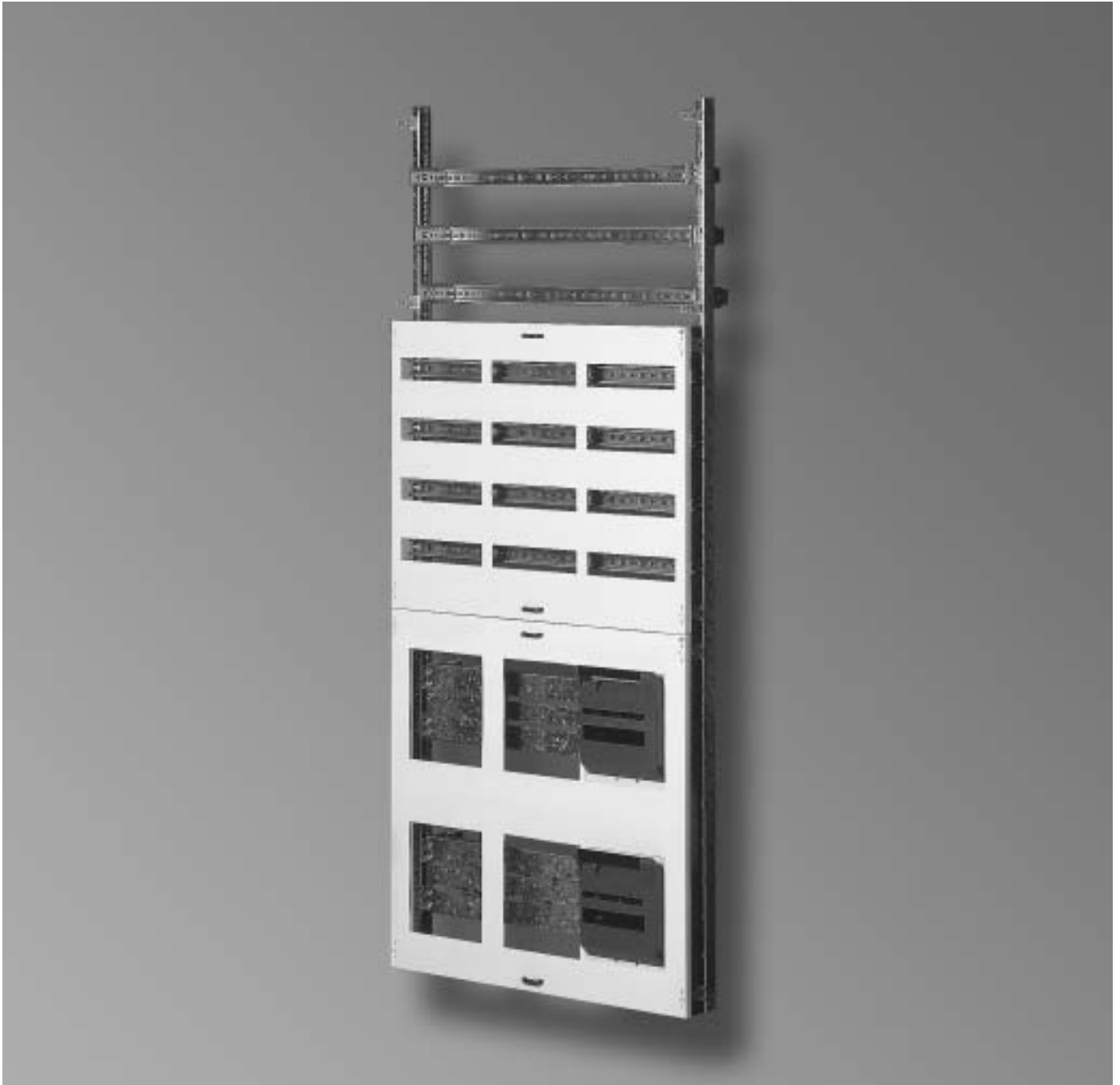
overall height 00
overall height 0
overall height 1
overall height 2
overall height 3
overall height 4
overall height 5



ZX 69
ZX 70
ZX 71
ZX 72
ZX 73
ZX 74
ZX 75



Project-related distribution board combinations



Page	I_N (A)					IP 30	IP 31	IP 41	IP 43	IP 54	IP 55
6 - 2	Project-related distribution board combinations										
6 - 3	Modules for project-related distribution board combinations										
6 - 22	Mounting parts for modules										

Applicable standards: DIN VDE 0660 Part 500 (TSK/PTSK), VDE 0660 Part 504, DIN 43871



Project-related distribution board combinations

■ Available only as a combination installed in the cabinet

Besides distribution board panels and combination sets, module system panels are also available for mounting in floor standing cabinets series C (grounded), floor standing cabinets series WS (double insulated), floor standing cabinets series W and WA (grounded) and switchgear series XS (double insulated) and XA (grounded) switchgear cabinets. Distribution board panels and combination sets cannot be used together in a cabinet with module system panels. The distribution board constructor selects from 324 modules those modules that are relevant to his project, thereby obtaining the correct low-voltage distribution in the easiest possible way.

Project-related distribution board combinations are always supplied from the factory, installed in the cabinet.

The proven mounting frame WR, with its special swing-in attachment system, serves as the support frame for the individual modules.

This support frame is included in the price of the modules and does not have to be ordered separately.

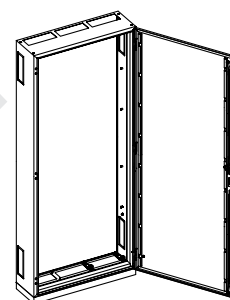
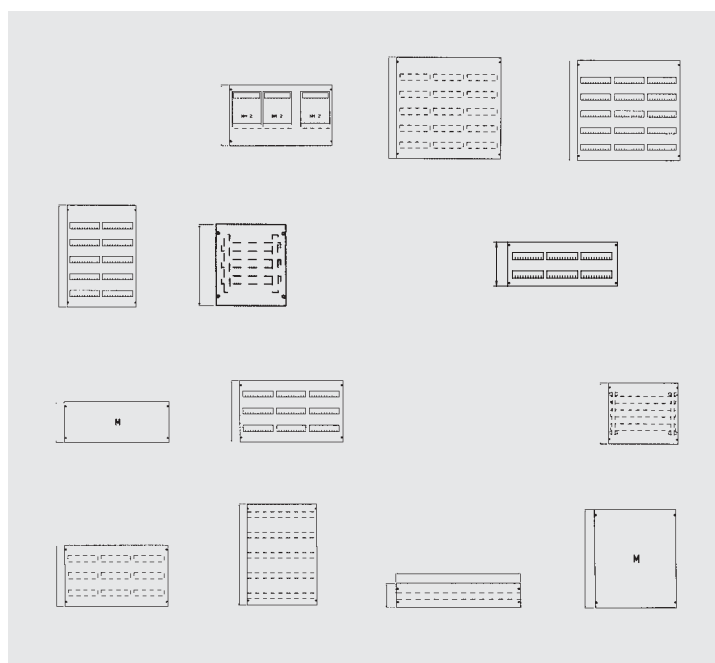
Depending on the modules, the following components are installed on this frame:

- DIN rails for built-in devices
- DIN rails for terminal blocks, adjustable depth and installed double insulated by XS and WS cabinets
- Mounting plates, adjustable depth
- U profiles for NH 00 disconnectors
- U profiles for NH 1 disconnectors
- U profiles for NH 2 disconnectors
- Busbar systems, steplessly adjustable depth for NH fuse circuit breaker NH 00 to NH 3, rated current up to 850 A.
- Busbar systems from 250 – 850 A, steplessly adjustable depth.
- Device mounting frame for measuring devices 96 x 96 mm.
- Touch guard cover, depending on module with or without cut-out, made of deformation-resistant fibreglass-reinforced polyester.
- Switch cabinet lighting
- Meter mounting plate (for intermediate counters only)

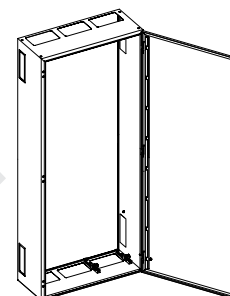
Advantages that save time and money:

- 1.) You plan your low-voltage distribution with the listed modules.
- 2.) You determine the overall price quickly and easily by adding up the module and cabinet prices.
- 3.) Striebel & John will find the ready-made cabinet combination within a very short time, prepared for component mounting and wiring. Striebel & John will also undertake part assembly, e.g. tested busbar systems.
- 4.) You yourself install devices of your choice.

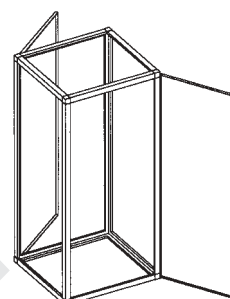
- Modules must together have the same grid spacings as the cabinets in which they are installed.



Floor standing cabinets
Series C ⊕ IP 54



Floor standing cabinets
Series WS ⊕ IP 55
Series W ⊕ IP 55
Series WA ⊕ IP 54



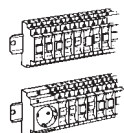
Switchgear cabinets
Series XA ⊕ IP 54
Series XS ⊕ IP 54



Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: Built-in device row module

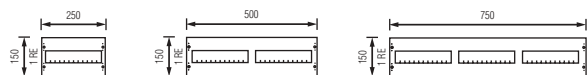


For built-in devices conforming to DIN 43880
Mounting with DIN rails

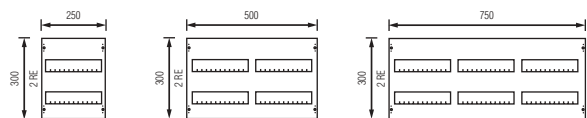
Rail spacing 125 mm

RE Width 250 Width 500 Width 750

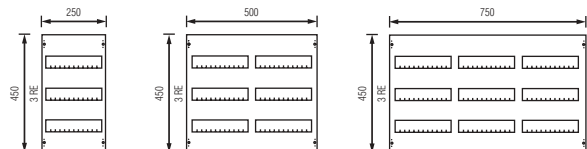
1 **Type TXG 101** **Type TXG 201** **Type TXG 301**
PLE 12 PLE 24 PLE 36



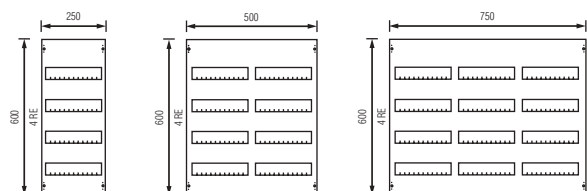
2 **Type TXG 102** **Type TXG 202** **Type TXG 302**
PLE 24 PLE 48 PLE 72



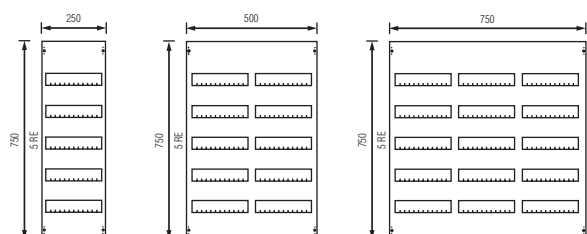
3 **Type TXG 103** **Type TXG 203** **Type TXG 303**
PLE 36 PLE 72 PLE 108



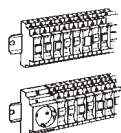
4 **Type TXG 104** **Type TXG 204** **Type TXG 304**
PLE 48 PLE 96 PLE 144



5 **Type TXG 105** **Type TXG 205** **Type TXG 305**
PLE 60 PLE 120 PLE 180



Module type: Built-in device row module

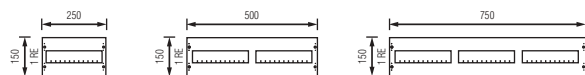


For built-in devices conforming to DIN 43880
Mounting with DIN rails

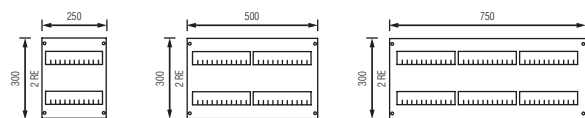
Rail spacing 150 mm

RE Width 250 Width 500 Width 750

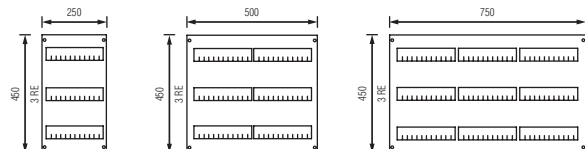
1 **Type TXG 411** **Type TXG 421** **Type TXG 431**
PLE 12 PLE 24 PLE 36



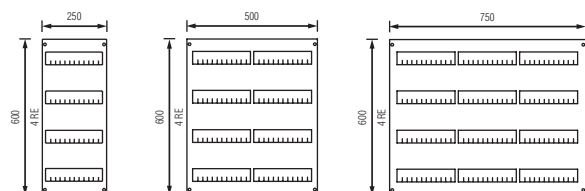
2 **Type TXG 412** **Type TXG 422** **Type TXG 432**
PLE 24 PLE 48 PLE 72



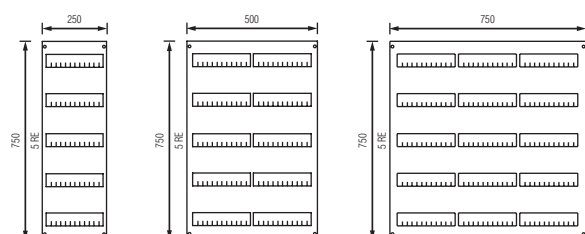
3 **Type TXG 413** **Type TXG 423** **Type TXG 433**
PLE 36 PLE 72 PLE 108



4 **Type TXG 414** **Type TXG 424** **Type TXG 434**
PLE 48 PLE 96 PLE 144



5 **Type TXG 415** **Type TXG 425** **Type TXG 435**
PLE 60 PLE 120 PLE 180



RE = Grid spacing



Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: Mounting plate module

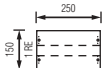
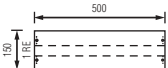
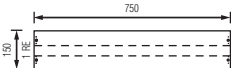
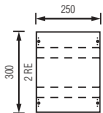
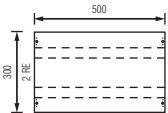
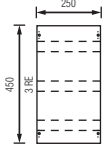
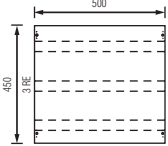
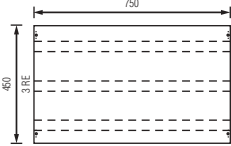
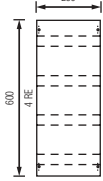
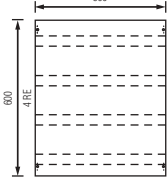
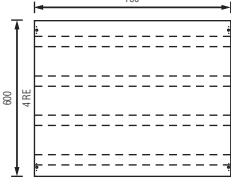
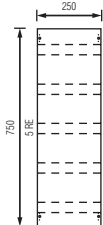
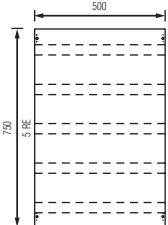
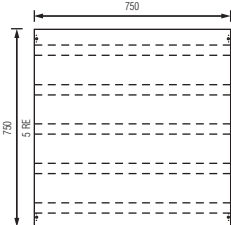
Mounting plates made of 2 mm sheet steel
Sendzimir galvanised on deep-mounting bracket ZW 60P2
Depth and height adjustable

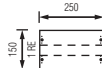
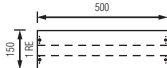
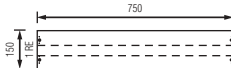
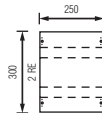
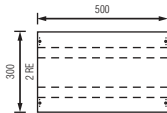
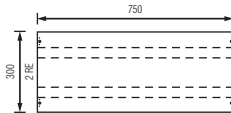
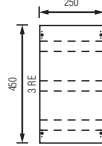
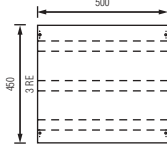
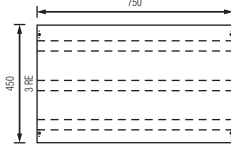
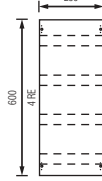
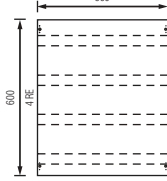
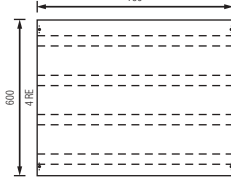
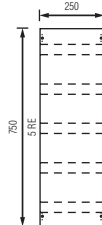
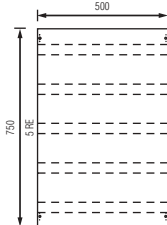
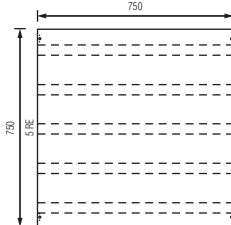
RE	Width 250	Width 500	Width 750
1	Type TXG 111 PLE 12 	Type TXG 211 PLE 24 	Type TXG 311 PLE 36
2	Type TXG 112 PLE 24 	Type TXG 212 PLE 48 	Type TXG 312 PLE 72
3	Type TXG 113 PLE 36 	Type TXG 213 PLE 72 	Type TXG 313 PLE 108
4	Type TXG 114 PLE 48 	Type TXG 214 PLE 96 	Type TXG 314 PLE 144
5	Type TXG 115 PLE 60 	Type TXG 215 PLE 120 	Type TXG 315 PLE 180



Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: Terminal block module 			
With DIN rails 35 x 15 mm			
on deep-mounting bracket ZW 60P2 I _N 100 A protection class I Sendzimir galvanised DIN rails grounded			
RE	Width 250	Width 500	Width 750
1	Type TXG 106 PLE 12	Type TXG 206 PLE 24	Type TXG 306 PLE 36
			
2	Type TXG 107 PLE 24	Type TXG 207 PLE 48	Type TXG 307 PLE 72
			
3	Type TXG 108 PLE 36	Type TXG 208 PLE 72	Type TXG 308 PLE 108
			
4	Type TXG 109 PLE 48 E	Type TXG 209 PLE 96	Type TXG 309 PLE 144
			
5	Type TXG 110 PLE 60	Type TXG 210 PLE 120	Type TXG 310 PLE 180
			

Module type: Terminal block module 			
With DIN rails 35 x 15 mm			
on deep-mounting bracket ZW 60P2 I _N 100 A protection class II Sendzimir galvanised DIN rails mounted double insulated			
RE	Width 250	Width 500	Width 750
1	Type TXG 106S PLE 12	Type TXG 206S PLE 24	Type TXG 306S PLE 36
			
2	Type TXG 107S PLE 24	Type TXG 207S PLE 48	Type TXG 307S PLE 72
			
3	Type TXG 108S PLE 36	Type TXG 208 S PLE 72	Type TXG 308 S PLE 108
			
4	Type TXG 109S PLE 48	Type TXG 209S PLE 96	Type TXG 309S PLE 144
			
5	Type TXG 110S PLE 60	Type TXG 210S PLE 120	Type TXG 310S PLE 180
			

RE = Grid spacing



Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: Touch guard module				Module type: Cable clamp rail module			
Empty module				With cable clamp rail on deep-mounting bracket ZW 60P2 Depth and height adjustable			
RE	Width 250	Width 500	Width 750	RE	Width 250	Width 500	Width 750
1	Type TXG 116 PLE 12	Type TXG 216 PLE 24	Type TXG 316 PLE 36	1	Type TXG 183 PLE 12	Type TXG 283 PLE 24	Type TXG 383 PLE 36
2	Type TXG 117 PLE 24	Type TXG 217 PLE 48	Type TXG 317 PLE 72				
3	Type TXG 118 PLE 36	Type TXG 218 PLE 72	Type TXG 318 PLE 108				
4	Type TXG 119 PLE 48	Type TXG 219 PLE 96	Type TXG 319 PLE 144				
5	Type TXG 120 PLE 60	Type TXG 220 PLE 120	Type TXG 320 PLE 180				

RE = Grid spacing



Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Without copper.
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: Busbar module

Without Cu rails
With busbar holder
With deep-mounting bracket ZW 142P2
for stepless forward and backward adjustment
of busbar holders

RE	Width 250	Width 500	Width 750	Equipment / technical	
2	Type TXG 124 PLE 24 	Type TXG 224 PLE 48 	Type TXG 324 PLE 72 	for Cu rails: 12 x 5 mm Number of poles: 5 Current: 250A Rail spacing: 40 mm with busbar holder Type: ZB 5	
2	Type TXG 125 PLE 24 	Type TXG 225 PLE 48 	Type TXG 325 PLE 72 	for Cu rails: 12 x 10 mm Number of poles: 5 Current: 360A Rail spacing: 40 mm with busbar holder Type: ZB 5	
2	Type TXG 126 PLE 24 	Type TXG 226 PLE 48 	Type TXG 326 PLE 72 	for Cu rails: 20 x 5 mm Number of poles: 5 Current: 320A Rail spacing: 40 mm with busbar holder Type: ZB 5	
2	Type TXG 127 PLE 24 	Type TXG 227 PLE 48 	Type TXG 327 PLE 72 	for Cu rails: 30 x 5 mm Number of poles: 3 Current: 440A Rail spacing: 60 mm with busbar holder Type: ZX 151	
2	Type TXG 129 PLE 24 	Type TXG 229 PLE 48 	Type TXG 329 PLE 72 	for Cu rails: 30 x 10 mm Number of poles: 3 Current: 630A Rail spacing: 60 mm with busbar holder Type: ZX 151	
3	Type TXG 131 PLE 36 	Type TXG 231 PLE 72 	Type TXG 331 PLE 108 	for Cu rails: 40 x 10 mm Number of poles: 3 Current: 850A Rail spacing: 100 mm with busbar holder Type: ZX 520	With deep-mounting bracket ZW 391 for stepless forward and backward adjustment of busbar holders

RE = Grid spacing



Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- With copper.
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

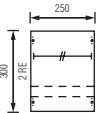
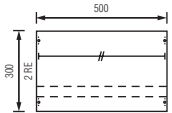
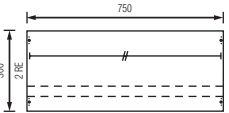
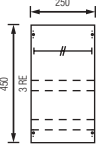
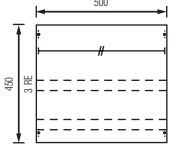
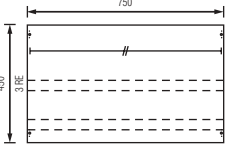
Module type:		Busbar module			Equipment / technical
		With Cu rails With deep-mounting bracket ZW 142P2 for stepless forward and backward adjustment of busbar holders			
RE	Width 250	Width 500	Width 750		
2	Type TXG 124B PLE 24	Type TXG 224B PLE 48	Type TXG 324B PLE 72	for Cu rails: 12 x 5 mm Number of poles: 5 Current: 250A Rail spacing: 40 mm with busbar holder Type: ZB 5	
2	Type TXG 125B PLE 24	Type TXG 225B PLE 48	Type TXG 325B PLE 72	for Cu rails: 12 x 10 mm Number of poles: 5 Current: 360A Rail spacing: 40 mm with busbar holder Type: ZB 5	
2	Type TXG 126B PLE 24	Type TXG 226B PLE 48	Type TXG 326B PLE 72	for Cu rails: 20 x 5 mm Number of poles: 5 Current: 320A Rail spacing: 40 mm with busbar holder Type: ZB 5	
2	Type TXG 127B PLE 24	Type TXG 227B PLE 48	Type TXG 327B PLE 72	for Cu rails: 30 x 5 mm Number of poles: 3 Current: 440A Rail spacing: 60 mm with busbar holder Type: ZX 151	
2	Type TXG 129B PLE 24	Type TXG 229B PLE 48	Type TXG 329B PLE 72	for Cu rails: 30 x 10 mm Number of poles: 3 Current: 630A Rail spacing: 60 mm with busbar holder Type: ZX 151	
3	Type TXG 131B PLE 36	Type TXG 231B PLE 72	Type TXG 331B PLE 108	for Cu rails: 40 x 10 mm Number of poles: 3 Current: 850A Rail spacing: 100 mm with busbar holder Type: ZX 520	With deep-mounting bracket ZW 391P2 for stepless forward and backward adjustment of busbar holders

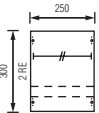
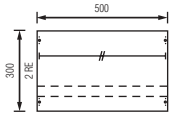
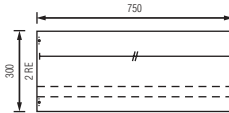
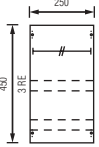
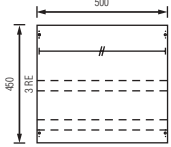
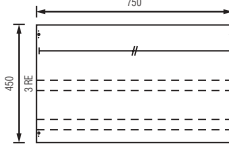
RE = Grid spacing

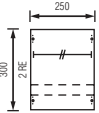
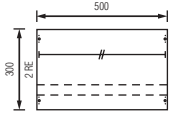
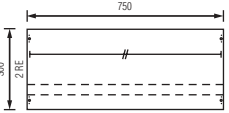
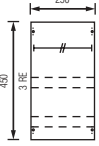
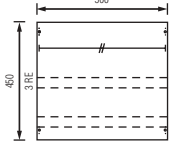
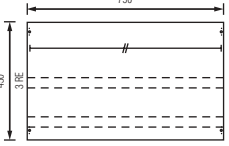


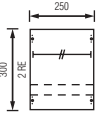
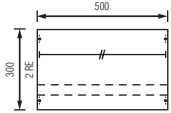
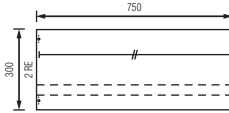
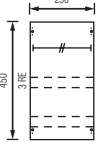
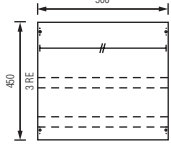
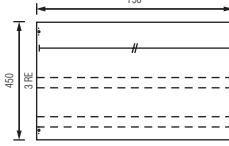
Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: N/PE rail module 			
N/PE rail 20 x 5 mm Cu 320A DIN rails 35 x 15 mm on deep-mounting bracket ZW60P2 Busbar holder Type ZX 518 Protection class I			
RE	Width 250	Width 500 mm	Width 750 mm
2	Type TXG 174B PLE 24 	Type TXG 274B PLE 48 	Type TXG 374B PLE 72 
3	Type TXG 175B PLE 36 	Type TXG 275B PLE 72 	Type TXG 375B PLE 108 

Module type: N/PE rail module 			
N/PE rail 20 x 5 mm Cu 320A DIN rails 35 x 15 mm on deep-mounting bracket ZW60P2 Busbar holder Type ZX 518 Protection class II			
RE	Width 250 mm	Width 500 mm	Width 750 mm
2	Type TXG 174SB PLE 24 	Type TXG 274SB PLE 48 	Type TXG 374SB PLE 72 
3	Type TXG 175SB PLE 36 	Type TXG 275SB PLE 72 	Type TXG 375SB PLE 108 

Module type: N/PE rail module 			
N/PE rail 30 x 5 mm Cu 440 A DIN rails 35 x 15 mm on deep-mounting bracket ZW60P2 Busbar holder Type ZX 518 Protection class I			
RE	Width 250	Width 500 mm	Width 750 mm
2	Type TXG 165B PLE 24 	Type TXG 265B PLE 48 	Type TXG 365B PLE 72 
3	Type TXG 166B PLE 36 	Type TXG 266B PLE 72 	Type TXG 366B PLE 108 

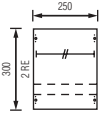
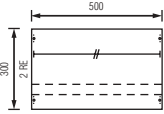
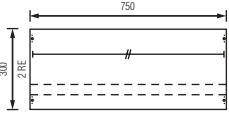
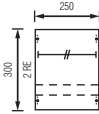
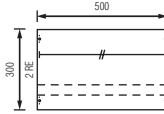
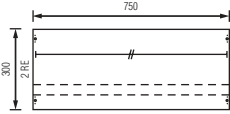
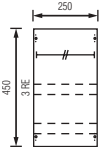
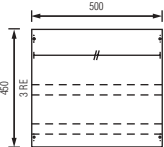
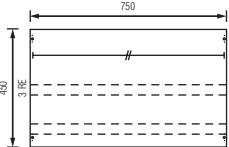
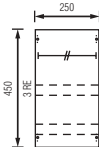
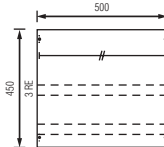
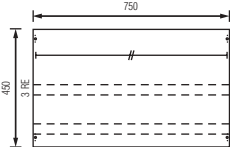
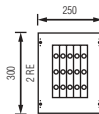
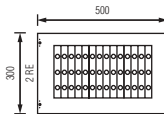
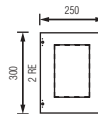
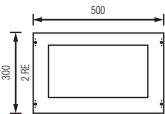
Module type: N/PE rail module 			
N/PE rail 30 x 5 mm Cu 440 A DIN rails 35 x 15 mm on deep-mounting bracket ZW60P2 Busbar holder Type ZX 518 Protection class II			
RE	Width 250 mm	Width 500 mm	Width 750 mm
2	Type TXG 165SB PLE 24 	Type TXG 265SB PLE 48 	Type TXG 365SB PLE 72 
3	Type TXG 166SB PLE 36 	Type TXG 266SB PLE 48 	Type TXG 366SB PLE 108 

RE = grid spacing



Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: N/PE rail module 				Module type: N/PE rail module 			
N/PE rail 30 x 10 mm Cu 630 A DIN rails 35 x 15 mm on deep-mounting bracket ZW60P2 Busbar holder Type ZX 149 Protection class I				N/PE rail 30 x 10 mm Cu 630 A DIN rails 35 x 15 mm on deep-mounting bracket ZW60P2 Busbar holder Type ZX 149 Protection class II			
RE	Width 250	Width 500 mm	Width 750 mm	RE	Width 250 mm	Width 500 mm	Width 750 mm
2	Type TXG 162B PLE 24 	Type TXG 262B PLE 48 	Type TXG 362B PLE 72 	2	Type TXG 162SB PLE 24 	Type TXG 262SB PLE 48 	Type TXG 362SB PLE 72 
3	Type TXG 163B PLE 36 	Type TXG 263B PLE 72 	Type TXG 363B PLE 108 	3	Type TXG 163SB PLE 36 	Type TXG 263SB PLE 48 	Type TXG 363SB PLE 108 
Module type: D02 fuse module				Module type: D02 fuse module			
Fitted with fuse elements D02 and busbar system 12 x 5/250A, 3-pole Connection terminals 35 mm ² ZK 81 Busbar holder Type ZX 151 Rail spacing 60 mm				Empty module, cover with cut-out fitted with busbar system 12 x 5 Cu, 250 A, 3-pole without fuse elements Connection terminals 35 mm ² ZK81 Busbar holder Type ZX 151 Rail spacing 60 mm			
Grid spacing	Width 250	Width 500		Grid spacing	Width 250	Width 500	
2	Type TXG 1D02RB PLE 24 	Type TXG 2 D02RB PLE 48 		2	Type TXG 1D02R PLE 24 	Type TXG 2D02R PLE 48 	
Components fitted: 5 x 3 x D02 14 x 3 x D02				Space for: 5 x 3 x D02 14 x 3 x D02			

RE = Grid spacing



Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: EIB bus module

Prepared for installation
of EIB data buses
DIN rail 35 x 7,5 mm

Rail spacing 125 mm

RE	Width 250	Width 500
1	Type TXG 101EIB PLE 12 	Type TXG 201EIB PLE 24
2	Type TXG 102EIB PLE 24 	Type TXG 202EIB PLE 48
3	Type TXG 103EIB PLE 36 	Type TXG 203EIB PLE 72
4	Type TXG 104EIB PLE 48 	Type TXG 204EIB PLE 96

RE = Grid spacing

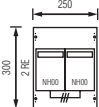
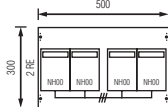
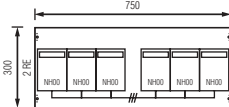
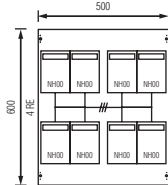
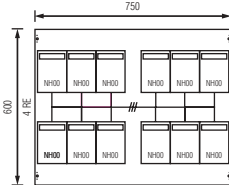


Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

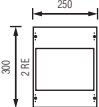
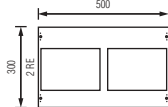
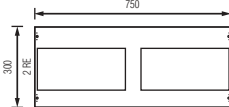
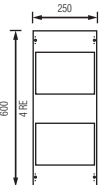
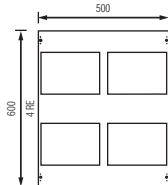
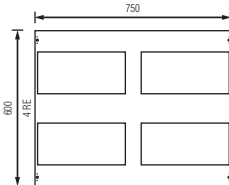
Module type: NH fuse switch disconnecter module NH 00

Fitted with NH 00 fuse switch disconnecter 160A
and busbar system 320 A
Cu 20 x 5 mm
with connecting screws M8

RE	Width 250	Width 500	Width 750
2	Type TXG 136B PLE 24	Type TXG 236B PLE 48	Type TXG 336B PLE 72
			
Components fitted	2 x NH 00	4 x NH 00	6 x NH 00
4	Type TXG 137B PLE 48	Type TXG 237B PLE 96	Type TXG 337B PLE 144
			
Components fitted	4 x NH 00	8 x NH 00	12 x NH 00

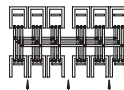
Module type: NH fuse switch disconnecter module NH 00

Empty module prepared for NH 00
Fuse switch disconnecter 160 A
following makes:
Striebel & John, Efen, Jung,
Lindner, Jean Müller, Wöhner

RE	Width 250	Width 500	Width 750
2	Type TXG 136 PLE 24	Type TXG 236 PLE 48	Type TXG 336 PLE 72
			
Space for	2 x NH 00	4 x NH 00	6 x NH 00
4	Type TXG 137 PLE 48	Type TXG 237 PLE 96	Type TXG 337 PLE 144
			
Space for	4 x NH 00	8 x NH 00	12 x NH 00

Busbar systems

CU busbar systems 320 A universally usable on the recommended disconnecter types
Connection screws M8 included. Note: In a one-row arrangement, use 3 straight or 3 angled cable lugs to connect the infeed cables.
CU rail cross section 20 x 5

Current capacity 320 A	Width 250	Width 500	Width 750
ZH 214	ZH 211	ZH 311	
			
ZH 216	ZH 212	ZH 312	
			

RE = Grid spacing



Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: NH fuse switch disconnecter module NH 1

Fitted with NH 1 fuse switch disconnecter 250A
also with busbar system with connection screws M12
TXG 142 B without busbar

RE	Width 250	Width 500	Width 750
3	Type TXG 142B PLE 36	Type TXG 242B PLE 72	Type TXG 342B PLE 108
	busbar 440 A Cu 30 x 5 mm	busbar 440 A Cu 30 x 5 mm	busbar 440 A Cu 30 x 5 mm
Components fitted	1 x NH 1	2 x NH 1	3 x NH 1

5	Type TXG 143B PLE 60	Type TXG 243B PLE 120	Type TXG 343B PLE 180
	busbar 630 A Cu 30 x 10 mm	busbar 630 A Cu 30 x 10 mm	busbar 630 A Cu 30 x 10 mm
Components fitted	2 x NH 1	4 x NH 1	6 x NH 1

Module type: NH fuse switch disconnecter module NH 1

Empty module prepared for NH 1 fuse switch disconnecter 250 A
following makes: Striebel & John, Efen, Jung,
Lindner, Jean Müller, Wöhner

RE	Width 250	Width 500	Width 750
3	Type TXG 142 PLE 36	Type TXG 242 PLE 72	Type TXG 342 PLE 108
Space for	1 x NH 1	2 x NH 1	3 x NH 1

5	Type TXG 143 PLE 60	Type TXG 243 PLE 120	Type TXG 343 PLE 180
Space for	2 x NH 1	4 x NH 1	6 x NH 1

Busbar systems

CU busbar systems from 440 A to 630 A universally usable
on the recommended disconnecter types
Connection screws (M12 in the case of NH1 and NH2) included.

Width 500	Width 750
ZH 217 CU 30 x 5 / 440 A	ZH 317 CU 30 x 5 / 440 A
ZH 218 CU 30 x 10 / 630 A	ZH 318 CU 30 x 10 / 630 A

Note: In a one-row arrangement, use 3 straight or 3 angled cable lugs. In a two-row arrangement use 3 angled cable lugs to connect the infeed cable.
CU rail cross section 30 x 5, current capacity 440 A
CU rail cross section 30 x 10, current capacity 630 A

RE = Grid spacing



Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: NH fuse switch disconnecter module NH 2

Fitted with NH 2 fuse switch disconnecter 400A
with busbar system with connection screws M12
TXG 144 B without busbar

RE	Width 250	Width 500	Width 750
3	Type TXG 144B PLE 36	Type TXG 244B PLE 72	Type TXG 344B PLE 108
Components fitted	busbar 440 A Cu 30 x 5 mm 1 x NH 2	2 x NH 2	3 x NH 2
5	Type TXG 145B PLE 60	Type TXG 245B PLE 120	Type TXG 345B PLE 180
Components fitted	busbar 630 A Cu 30 x 10 mm 2 x NH 2	4 x NH 2	6 x NH 2

Module type: NH fuse switch disconnecter module NH 2

Empty module prepared for NH 2 fuse switch disconnecter 400 A
following makes: Striebel & John, Efen, Jung,
Lindner, Jean Müller, Wöhner

RE	Width 250	Width 500	Width 750
3	Type TXG 144 PLE 36	Type TXG 244 PLE 72	Type TXG 344 PLE 108
Space for	1 x NH 2	2 x NH 2	3 x NH 2
5	Type TXG 145 PLE 60	Type TXG 245 PLE 120	Type TXG 345 PLE 180
Space for	2 x NH 2	4 x NH 2	6 x NH 2

Busbar systems

CU busbar systems from 440 A to 630 A universally usable
on the recommended disconnecter types
Connection screws (M12 in the case of NH1 and NH2) included.

Width 500	Width 750
ZH 217 CU 30 x 5 / 440 A	ZH 317 CU 30 x 5 / 440 A
ZH 218 CU 30 x 10 / 630 A	ZH 318 CU 30 x 10 / 630 A

Note: In a one-row arrangement, use 3 straight or 3 angled cable lugs. In a two-row arrangement use 3 angled cable lugs to connect the infeed cable.

CU rail cross section 30 x 5, current capacity 440 A
CU rail cross section 30 x 10, current capacity 630 A

RE = Grid spacing



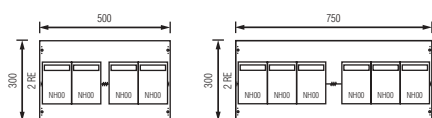
Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: NH 00 disconnecter adapter module

Fitted with NH00 fuse switch disconnecter 160 A, on busbar system 12 x 10 mm, 360 A, 3-pole with connection terminals 70 mm² ZK 83 Rail spacing 40 mm Busbar holder Type ZB 5

RE	Width 500	Width 750
2	Type TXG 250B PLE 48	Type TXG 350B PLE 72

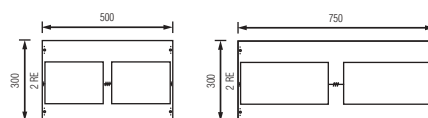


Components fitted	4 x NH 00	6 x NH 00
-------------------	-----------	-----------

Module type: NH 00 disconnecter adapter module

Prepared for NH00 fuse switch disconnecter, fitted with busbar system 12 x 10 mm 360 A Rail spacing 40 mm Busbar holder Type ZB 5

RE	Width 500	Width 750
2	Type TXG 250 PLE 48	Type TXG 350 PLE 72

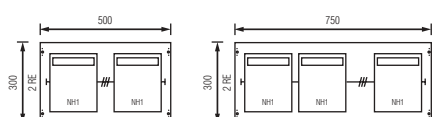


Space for	4 x NH 00	6 x NH 00
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Module type: NH 1 disconnecter adapter module

Fitted with NH1 fuse switch disconnecter 250 A, Busbar system 12 x 10 mm, 360A, 3-pole with connection terminals 70 mm² ZK 83 Rail spacing 40 mm Busbar holder Type ZB 5

RE	Width 500	Width 750
2	Type TXG 251B PLE 48	Typ TXG 351B PLE 72

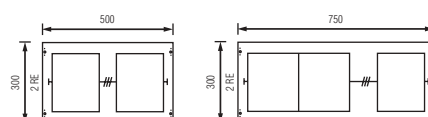


Components fitted	2 x NH 1	3 x NH 1
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Module type: NH 1 disconnecter adapter module

Prepared for NH1 fuse switch disconnecter, fitted with busbar system 12 x 10 mm 360A, 3-pole Rail spacing 40 mm Busbar holder Type ZB 5

RE	Width 500	Width 750
2	Type TXG 251 PLE 48	Type TXG 351 PLE 72



Space for	2 x NH 1	3 x NH 1
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RE = Grid spacing

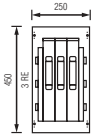
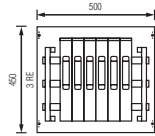
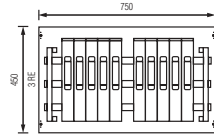


Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

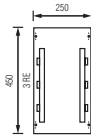
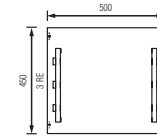
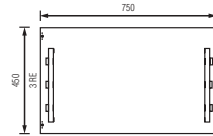
Module type: NH fuse circuit breaker module

Fitted with fuse circuit breaker
Size 00 160A / 3-pole
Busbars 30 x 10 mm, 630 A
Rail spacing 100 mm
Busbar holder Type 520
Deep-mounting bracket ZX 376

RE	Width 250	Width 500	Width 750
3	Type TXG 152B PLE 36	Type TXG 252B PLE 72	Type TXG 352B PLE 108
			
Components fitted	3 x NH 00	6 x NH 00	10 x NH 00

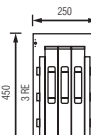
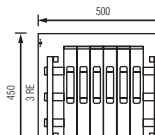
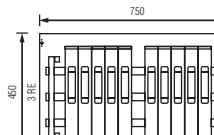
Module type: NH fuse circuit breaker module

Empty module prepared for NH fuse circuit breaker Size 00 160A
Fitted with busbar holder Type 520
Rail spacing 100 mm
Deep-mounting bracket ZW 391P2

RE	Width 250	Width 500	Width 750
3	Type TXG 152 PLE 36	Type TXG 252 PLE 72	Type TXG 352 PLE 108
			
Space for	3 x NH 00	6 x NH 00	10 x NH 00

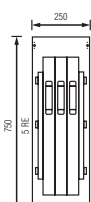
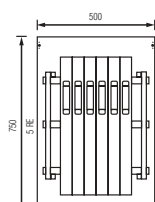
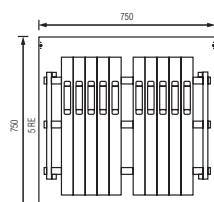
Module type: NH fuse circuit breaker module

Fitted with fuse circuit breaker
Size 00 160A / 3-pole
Busbars 40 x 10 mm, 850 A
Rail spacing 100 mm
Busbar holder Type 520
Deep-mounting bracket ZX 376

RE	Width 250	Width 500	Width 750
3	Type TXG 172B PLE 36	Type TXG 272B PLE 72	Type TXG 372B PLE 108
			
Components fitted	3 x NH 00	6 x NH 00	10 x NH 00

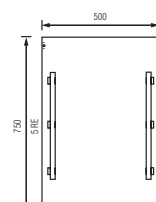
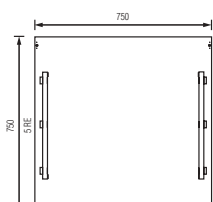
Module type: NH fuse circuit breaker module

Fitted with fuse circuit breaker
Size 00 160A / 3-pole
Busbars 30 x 10 mm, 630 A
Rail spacing 185 mm
Busbar holder Type 522
Deep-mounting bracket ZW 349

RE	Width 250	Width 500	Width 750
5	Type TXG 100B PLE 60	Type TXG 200B PLE 120	Type TXG 300B PLE 180
			
Components fitted	3 x NH 00	6 x NH 00	10 x NH 00

Module type: NH fuse circuit breaker module

Empty module prepared for NH fuse circuit breaker Size 00 160A
Fitted with busbar holder Type 522
Rail spacing 185 mm
Deep-mounting bracket ZW 142P2

RE	Width 250	Width 500	Width 750
5	Type TXG 100 PLE 60	Type TXG 200 PLE 120	Type TXG 300 PLE 180
			
Space for	3 x NH 00	6 x NH 00	10 x NH 00

RE = Grid spacing

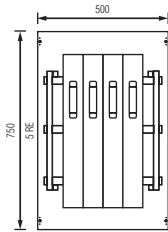
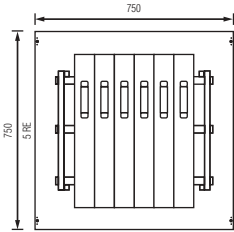
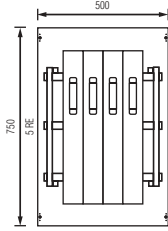
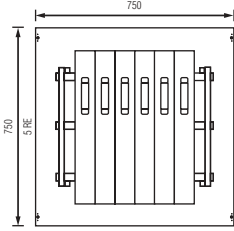
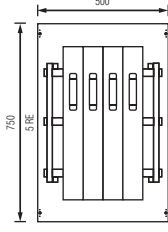
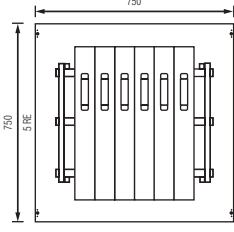


Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

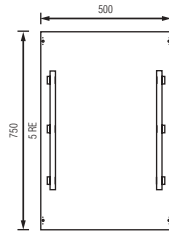
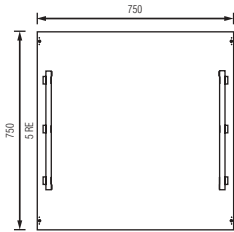
Module type: NH fuse circuit breaker module

Fitted with fuse circuit breaker
3-pole
Busbars Cu 40 x 10 mm, 850 A
Rail spacing 185 mm
Busbar holder Type ZX 522
Deep-mounting bracket ZW 349

RE	Width 500	Width 750
5	Type TXG 21B PLE 120 	Type TXG 31B PLE 180 
5	Type TXG 22B PLE 120 	Type TXG 32B PLE 180 
5	Type TXG 23B PLE 120 	Type TXG 33B PLE 180 

Module type: NH fuse circuit breaker module

Empty module prepared for NH fuse circuit breaker
Size 00/1/2/3
Fitted with busbar holder Type ZX 522
Rail spacing 185 mm
Deep-mounting bracket ZW 142P2

RE	Width 500	Width 750
	Type TXG 200 PLE 120 	Type TXG 300 PLE 180 
	Space for 3 x NH 1	6 x NH 1

RE = Grid spacing



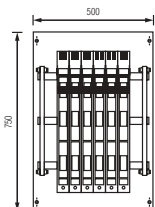
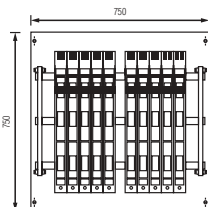
Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Only for cabinet depth from 600 mm
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

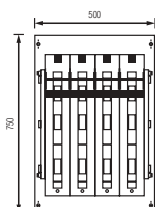
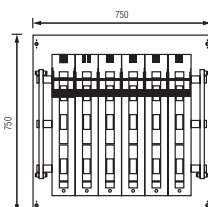
Module type: NH load breaker switch with fuse

Fitted with load breaker switch with fuse
3-pole, make: ABB Type SR-E
Busbars Cu 40 x 10 mm, 850 A
Rail spacing 185 mm
Attachment of contact extension not possible!

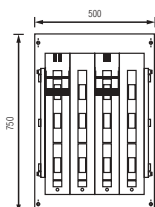
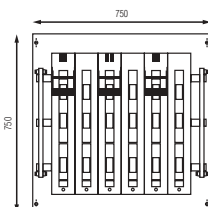
RE	Width 500 only for cabinet depth from 600 mm	Width 750
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5	Type TXG 25B PLE 120	Type TXG 35B PLE 180
		

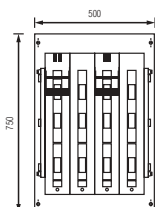
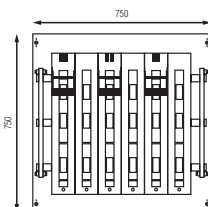
Components fitted 6 x NH 00

5	Type TXG 26B PLE 120	Type TXG 36B PLE 180
		

Components fitted 4 x NH 1

5	Type TXG 27B PLE 120	Type TXG 37B PLE 180
		

Components fitted 2 x NH 2

5	Type TXG 28B PLE 120	Type TXG 38B PLE 180
		

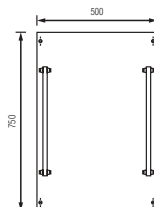
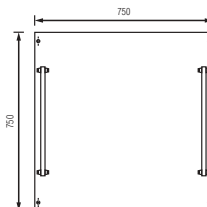
Components fitted 2 x NH 3

3 x NH 3

Module type: NH fuse circuit breaker module

Empty module prepared for load breaker switch with fuse
Size 00/1/2/3
Fitted with busbar holder
Rail spacing 185 mm

RE	Width 500 only for cabinet depth from 600 mm	Width 750
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	Type TXG 25 PLE 120	Type TXG 35 PLE 180
		

Type Space for	Type ABB-SR	Type J. Müller Sasil
NH00	8	6
NH1	4	4
NH2	2	2
NH3	2	2

Type ABB-SR	Type J. Müller Sasil
12	11
6	7
3	3
3	3

Current transformer installation

Type ABB SR-E	Quantity	Quantity
Size 00		1
Size I		1
Size II	1	2
Size III	1	2
	in the device	in the cable connection compartment

Current transformer installation

Type J. Müller Sasil	Quantity
Size 00	1
Size I	1
Size II	3
Size III	3
	in the device

RE = Grid spacing



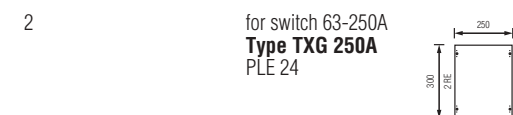
Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

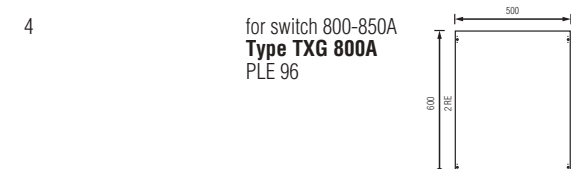
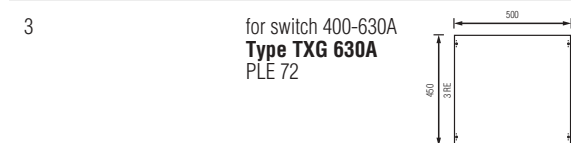
Module type: Power circuit breaker / load breaker switch module

Cover closed
Empty module, prepared for the following makes:
ABB Series: SACE / Isomax
ABB Series: OETL
AEG / GE Series: MC8
Merlin Gerin Series: NS, C
Terasaki Series: BS
Siemens Series: 3VF
Moeller Series: NZM, NZM,P
Socomec Series: SIRCO

RE Width 250



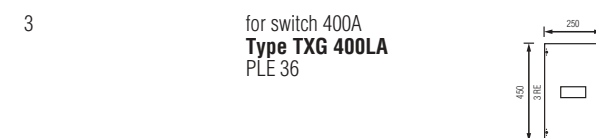
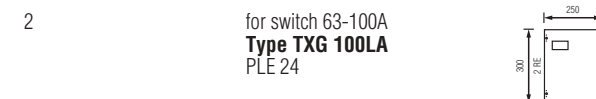
RE Width 500



Module type: Load breaker switch module

Cover with cut-out
Empty module, prepared for the following makes:
ABB Series: OT 100 A
Socomec Series: SIRCO 400 A

RE Width 250

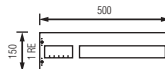
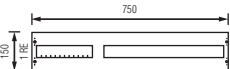
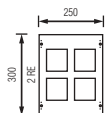
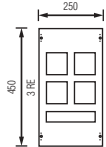
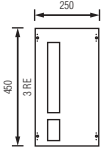
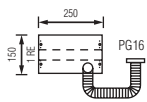
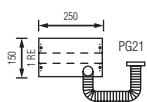
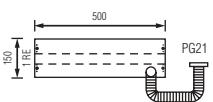
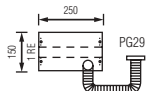
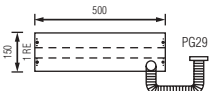


RE = Grid spacing



Modules for project-related distribution board combinations

- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: Measuring device module				Module type: Switchgear cabinet lighting module			
Prepared for installation size 96 mm and for voltmeter changeover switch for front mounting				Illuminated with strip light Width 500 = 8 Watt Width 750 = 13 Watt			
RE	Width 250	Width 500	Width 750	RE	Width 250	Width 500	Width 750
1		Type TXG 257 PLE 24	Type TXG 357 PLE 36	1		Type TXG 270 PLE 24	Type TXG 370 PLE 36
							
						Lamp 8 Watt	Lamp 13 Watt
2	Type TXG 157 PLE 24						
							
3	Type TXG 158 PLE 36			3	Type TXG 170 PLE 36		
							
						Lamp 8 Watt	
Module type: Cable connection module				RE = Grid spacing			
Spiral connection hose Fitted hose holder DIN rail for terminal blocks							
1	Type TXG 180 PLE 12						
							
1	Type TXG 181 PLE 12	Type TXG 281 PLE 24					
							
1	Type TXG 182 PLE 12	TYPE TXG 282 PLE 24					
							



Modules for project-related distribution board combinations

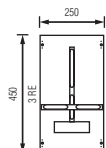
- Available only as a combination installed in the cabinet
- Cover halogen-free fibreglass-reinforced plastic, material thickness 3 mm with 90° press and turn closures

Module type: Meter plate module

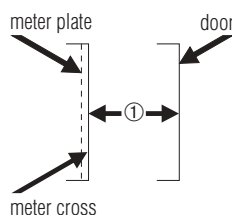
Meter plates 250 x 450 mm and 250 x 750 mm not in accordance with DIN 43870 (for intermediate measurements only) Electricity supply company measurements only after consultation with the electricity supply company

RE Width 250

3 Type TXG 160
PLE 36



Clearance between meter holder and inner edge of door



Cabinets	① Spacing / mm
TC	141,5
TW	172
TXA3	148
TXA4	198

Depth measurement of current meters up to 60 A

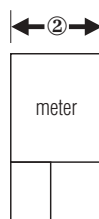
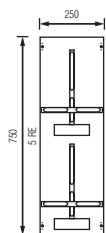
② Overall depth as defined by DIN 43857

Three-phase current meters	150 mm max.
AC meters	140 mm max.

② Overall depth of meters

Make	Three-phase	AC
Siemens	130 mm	123 mm
AEG	136 mm	

5 Type TXG 161
PLE 60



RE = Grid spacing

Allow for one module of at least 150 mm (=1 RE) above and below the TXG 160 / TXG 161

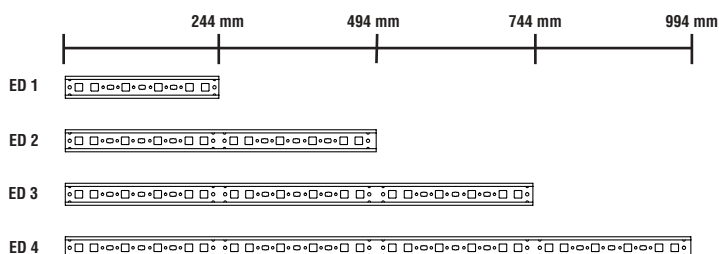
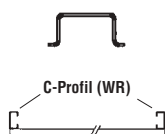


Mounting parts for modules

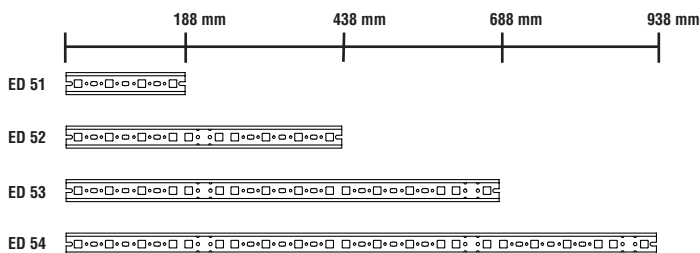
DIN rail 35 x 15 mm

(Galvanised sheet steel)

		1 panel wide	2 panels wide	3 panels wide	4 panels wide	2000 mm
with special hole grid pattern for the EDF wiring system	Length (mm) 1 ea. Type	244 ED 1	494 ED 2	744 ED 3	994 ED 4	2000 ED 6
	30 ea. Type	ED 1P30	ED 2P30	ED 3P30		



for recessed mounting with deep-mounting bracket ZW 60 on WR frame profile	Length (mm) 1 ea. Type	188 ED 51	446 ED 52	696 ED 53	946 ED 54
	30 ea. Type	ED 51P30	ED 52P30	ED 53P30	



Type

Fastening screws for DIN rails
20 ea.
500 ea.



ZB 28P20
ZB 28P500

Insulation piece
2 ea.
for DIN rails 35 x 7.5 mm
and 35 x 15 mm
with fastening material



ZK 90P2



Mounting parts for modules

WR mounting frame

for modules up to 850 A

	Frame	Overall height 8	Overall height 10		
	Length (mm)	1800	2100		
	Gr. sp. per 150 mm	12	14		
	1 ea. Type	ZW 213	ZW 214		
	20 ea. Type	ZW 213P20	ZW 214P20		
	Cross profile	1 panel wide	2 panels wide	3 panels wide	4 panels wide
	Length (mm)	206	456	706	952
	Panel width per 250 mm	1	2	3	4
	1 ea. Type	ZW 209	ZW 210	ZW 211	ZW 212
	20 ea. Type	ZW 209P20	ZW 210P20	ZW 211P20	
Mounting bracket for fastening cross profile to frame with fastening material	1 ea. Type	ZW 64			
	40 ea. Type	ZW 64P40			
Device connector for connecting device holders next to each other	4 ea. Type	ZX 66 P4			

WR mounting frame, complete

The stable, swing-in support frame for fittings up to 850A for installation in series C and W floor standing cabinets and Series X switchgear cabinets.
The WR mounting frame is supplied preassembled.

Overall height		1 panel wide	2 panels wide	3 panels wide	4 panels wide
8 1800 mm	Width (mm)	246	496	746	996
	Grid spacing	12	12	12	12
	Type	WR 18	WR 28	WR 38	WR 48
10 2100 mm	Width (mm)		496	746	996
	Grid spacing		14	14	14
	Type	—	WR 210	WR 310	WR 410



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