POWER DISTRIBUTION

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Rittal – The System.

Faster – better – everywhere.

	RiLine busbar systems		
	The tried-and-trusted, super-flexible power distribution systems for individual requirements. From small power distributors, to individual switchgear and controlgear, through to heavy-current power distributors for infrastructure and industry applications. Simple, secure assembly plus user-friendly planning with design verification are the distinguishing features of these systems.		
Busbar system	RiLine Compact	Mini-PLS	RiLine PLS/flat copper bars
Bar centre distance mm	–	40	60
Rated current A up to	125	250	800, 1600
Product characteristics	■ Contact hazard-protected board with integral busbars for the safe accommodation and contacting of components ■ The board and all components are simply top-mounted; no tools required ■ Suitable for AC and DC applications	■ Space-saving design with full-surface top-mounting of the busbar supports and bar connector elements ■ Simple component installation via plug and lock action from the front ■ Optimum contact hazard protection with all-round encapsulation	■ Thanks to the special styling of the PLS special busbars, top-mounting with components in the support area is not a problem ■ Optimum contact hazard protection with all-round encapsulation ■ Suitable for AC and DC applications
From page	282	294	300

	VX25 Ri4Power		
	The tested complete solution – Enclosure and bar system. Mutual interference between electrical equipment in low-voltage switchgear systems has already been tested to IEC 61 439 and confirmed with a design verification.	Modular system for low-voltage switchgear with design verification to IEC 61 439-1/-2 and DIN EN 61 439-1/-2 plus power distributors and structured system solutions for switchgear with 1-4b Form separation.	ISV distribution enclosures for standard-compliant power supply in buildings and industry. Flexible configuration with practical power distribution modules.
	Flat copper busbars	Flat copper busbars	Flat copper busbars
	185	60, 70, 80, 185	60, 100, 185
	2100	6300	–
	■ Supports top-mounting of the busbar supports with components on the cover system pitch pattern ■ Integral busbar shielding in the cover section to prevent accidental arcing ■ Top-mounting of the cover section and quick retrofitting of components without removing the cover section	■ Tested system solutions to the internationally valid standard IEC 61 439-1 and simple creation of the design verification ■ High levels of short-circuit withstand strength up to I_{cw} 100 kA for 1 sec./I_{pk} 220 kA ■ Tested accidental arcing protection to IEC 61 641	■ Distribution enclosures as wall-mounted and free-standing enclosures for individual population with modular elements
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Rittal – The System.

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Busbar systems

RiLine Compact busbar system

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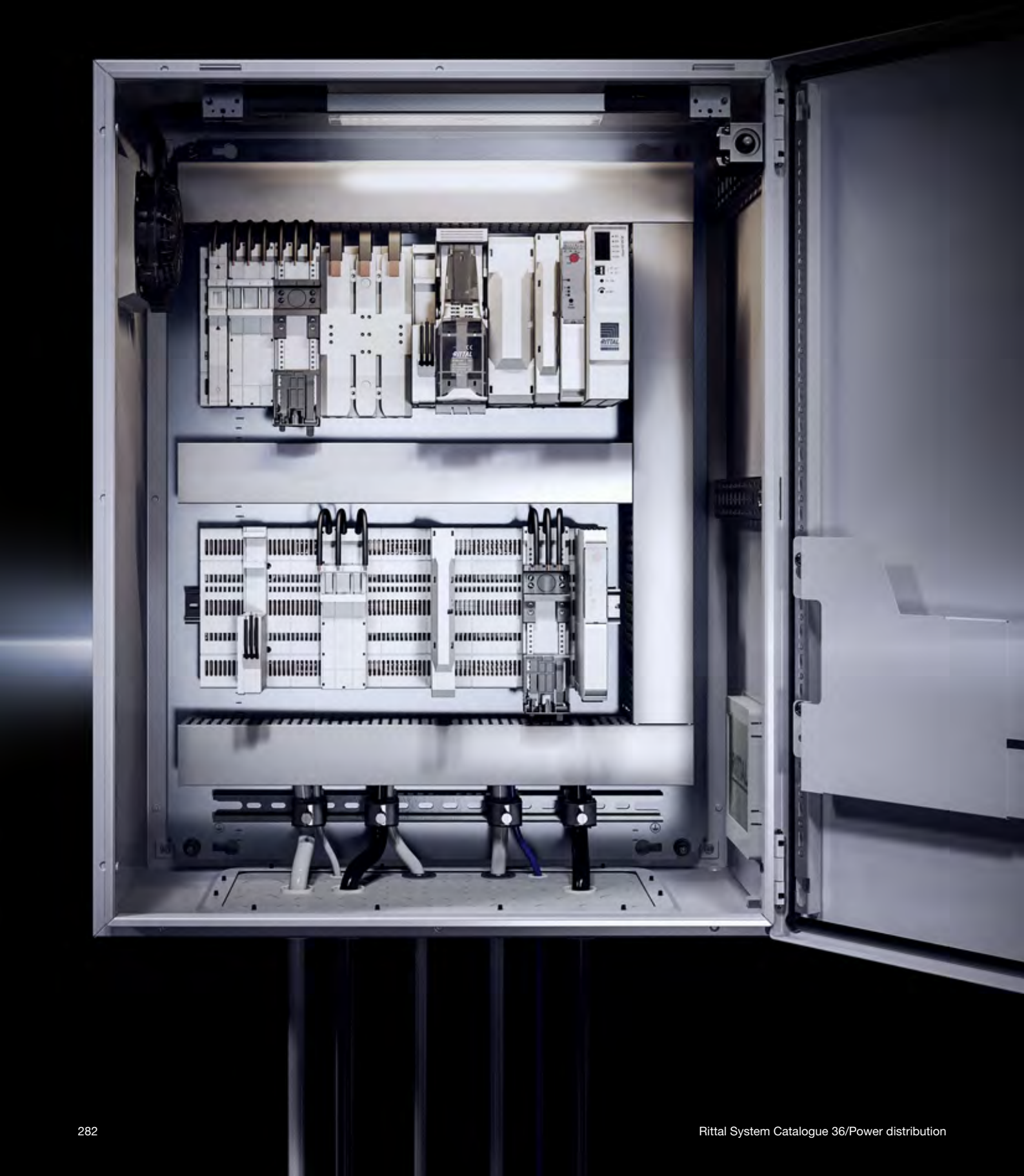
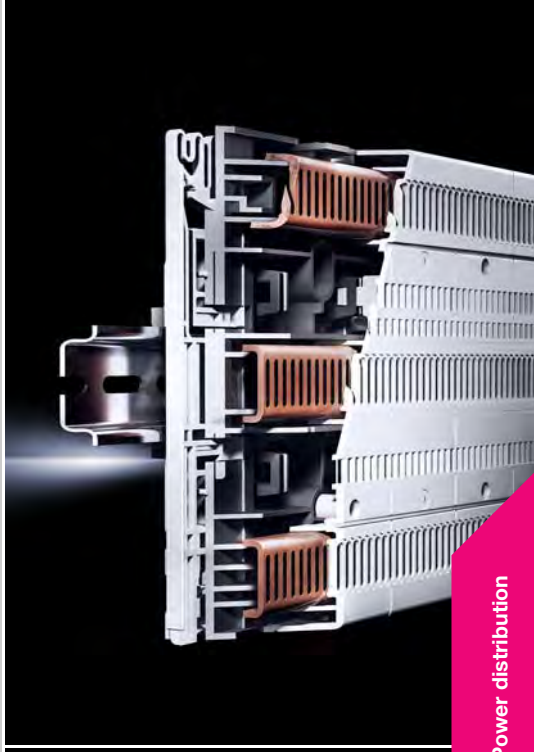
RiLine Compact – Power distribution in a confined space



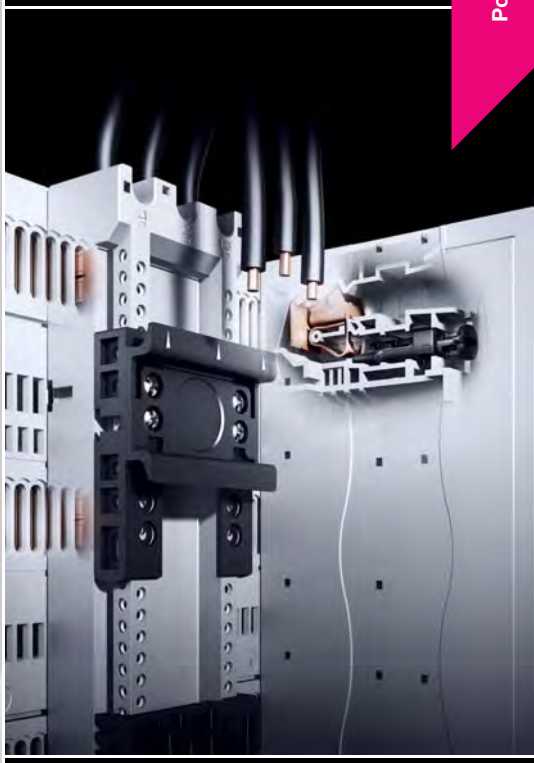
Tool-free installation made easy

- The board with integral circuit board conductors and all components are simply top-mounted; no tools required.
- Attaching the components simultaneously ensures a secure electrical connection to the all-round shock-hazard-protected board.
- The contact pitch pattern of the RiLine Compact system allows the assemblies to be positioned anywhere, in line with requirements.



Safe adaptor connection

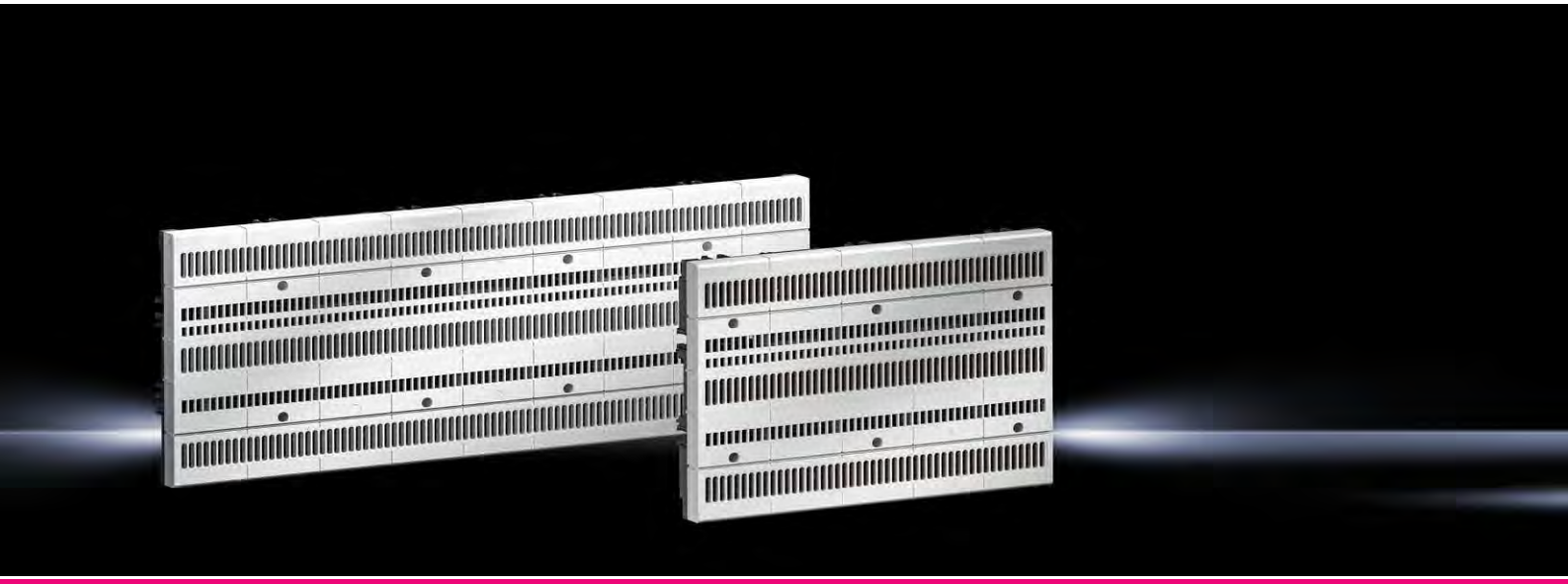
- The RiLine Compact system adaptors support fast connection of cables and devices.
- The screw-free connection technology in the adaptor means that conductors are quickly connected, and the contact point itself is completely maintenance-free.
- The component adaptors with preassembled connection cables satisfy the special requirements of IEC 61 439 and UL.



Space-saving installation of electronic components

- The compact power supply unit provides a regulated control voltage of 24 V DC. The integral push-in terminal allows simple, fast connection of the conductors.
- The motor controller with electronic overload protection has an exceptionally space-saving design and takes up 50% less space than a conventionally wired motor controller. The hybrid technology creates a low-loss motor controller which is particularly gentle on the switching contacts. This helps to extend the service life.

Board



Connection adaptors Page 285 **Component adaptors** Page 286 **NH fuse-switch disconnectors** Page 290 **Motor controller/power pack** Page 291

Functions:
- Shock-hazard-protected busbar board for the safe accommodation and contacting of components, thanks to simple plug-in mounting
- Pre-punched pitch units in the board allow secure, fast positioning of components
- Reduces wiring work by contacting directly onto the board
- For snap-on mounting onto 35 x 7.5/15 mm busbars or for direct attachment to the mounting plate

Material:
- Polyamide
- Polycarbonate
- E-Cu
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Protection category IP to IEC 60 529:
- IP 20

Supply includes:
- Integral busbars

Note:
- The technical data may vary for UL applications

Standards:
- UL 508
- IEC 61 439

Approvals:
- UL

RiLine Compact, 3-pole

Rated current max. A	Packs of	125	125	Page
Rated operating voltage V		690 (AC) 600 (DC)	690 (AC) 600 (DC)	
Number of poles		3-pole	3-pole	
Max. pitch units @ 45 mm		5	9	
Width mm		225	405	
Height mm		160	160	
Depth mm		45.1	45.1	
Model No.	1 pc(s).	**9635.000**	**9635.010**	

Board Page 284 **Component adaptors** Page 286 **NH fuse-switch disconnectors** Page 290 **Motor controller/power pack** Page 291

Functions:
– To supply power to the board

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Note:
– The technical data may vary for UL applications

Approvals:
– UL

Rated current max. 80 – 125 A, 3-pole

Rated current max. A	Packs of	80	125	Page
Rated operating voltage V, ~		690 (AC), 3~ 600 (DC), 3~	690 (AC), 3~ 600 (DC), 3~	
Number of poles		3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	
Type of connection		Spring terminal	Box terminal	
Connection of round conductors, fine wire without wire end ferrule mm^2		1.5 - 16	6 - 50	
Connection of round conductors, fine wire with wire end ferrule mm^2		1.5 - 16	6 - 50	
Connection of round conductors, multi-wire mm^2		1.5 - 16	6 - 50	
Connection of round conductors, single-wire mm^2		1.5 - 10	6 - 50	
Connection of round conductors		AWG 6 - 16	AWG 1 - 10	
When using fine-wire round conductors 16 mm^2 with wire end ferrule, we recommend the following crimping tools: Rittal 4054.004, Weidmüller PZ 16, Phoenix Contact Crimpfox 25R		■	–	
Can be used as a central infeed or as a longitudinal connector for two bayed boards		–	■	
Width mm		22.5	45	
Height mm		160	160	
Depth mm		115.5	92.5	
Model No.	4 pc(s).	**9635.200**	**9635.210**	

Component adaptors

Board Page 284 **Connection adaptors** Page 285 **NH fuse-switch disconnectors** Page 290 **Motor controller/power pack** Page 291

Functions:
- For mechanical attachment and direct contacting of electrical equipment on the board

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

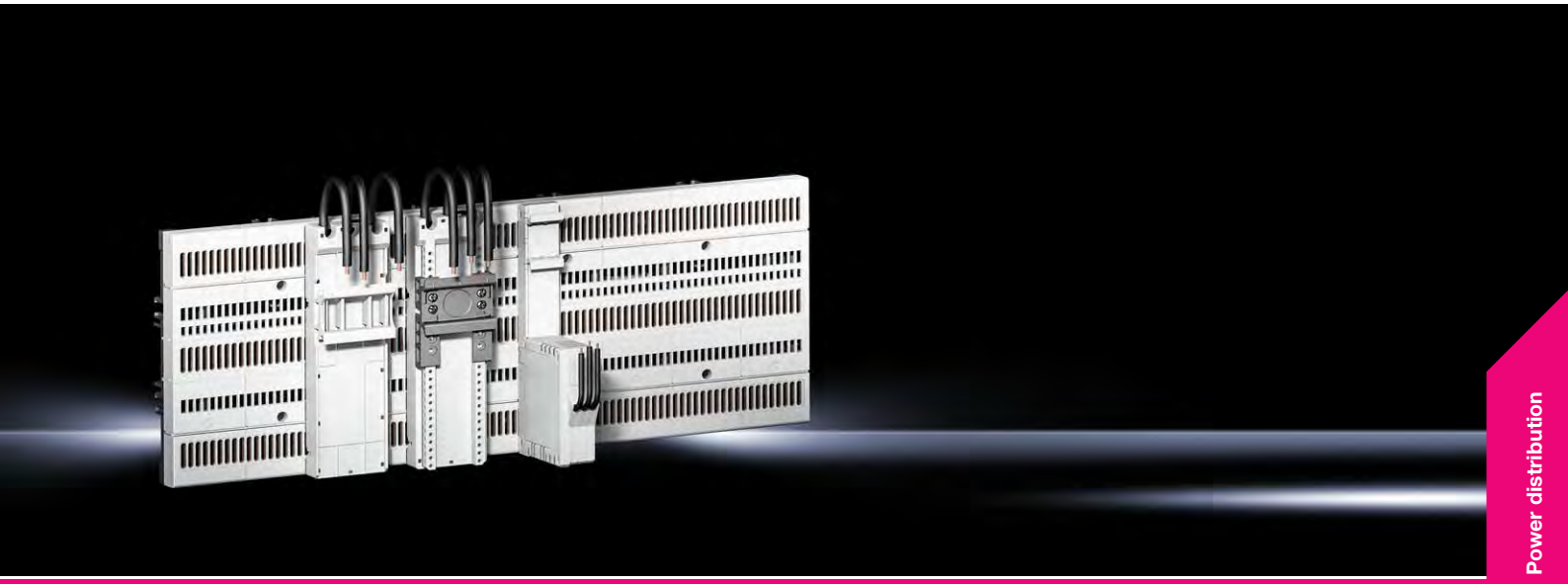
Colour:
- RAL 7035

Note:
- Different adaptor versions are required depending on the preferred phase connection
- The technical data may vary for UL applications

Approvals:
- UL

Rated current max. 16 – 63 A, 1-pole

Design	Packs of	L1	L2	L3	L1	L2	L3	Page
Rated current max. A		16	16	16	63	63	63	
Rated operating voltage V, ~		690 (AC), 1~	690 (AC), 1~	690 (AC), 1~	690 (AC), 1~	690 (AC), 1~	690 (AC), 1~	
Number of poles		Single-pole	Single-pole	Single-pole	Single-pole	Single-pole	Single-pole	
Connection cables, Design		AWG 14	AWG 14	AWG 14	AWG 8	AWG 8	AWG 8	
Connection cables, Length mm		100	100	100	100	100	100	
Support rails Qty/height mm		1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	
Support rail version		static	static	static	static	static	static	
Width mm		18	18	18	18	18	18	
Height mm		160	160	160	160	160	160	
Depth mm		35	35	35	35	35	35	
Model No.	6 pc(s).	**9635.371**	**9635.372**	**9635.373**	**9635.381**	**9635.382**	**9635.383**	



Board Page 284 **Connection adaptors** Page 285 **NH fuse-switch disconnectors** Page 290 **Motor controller/power pack** Page 291

Functions:
- For mechanical attachment and direct contacting of electrical equipment on the board

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Note:
- The technical data may vary for UL applications

Approvals:
- UL

Rated current max. 16 – 45 A, 3-pole

Design		With integral fuse holder	Basic	Basic	Comfort	Comfort	Comfort	Comfort	Page
Fuse type (class)		CC	–	–	–	–	–	–	
Rated current max. A		16	16	32	16	25	32	45	
Rated operating voltage V, ~		690 (AC), 3~ 600 (DC), 3~	690 (AC), 3~ 600 (DC), 3~	690 (AC), 3~ 600 (DC), 3~	690 (AC), 3~ 600 (DC), 3~	690 (AC), 3~ 600 (DC), 3~	690 (AC), 3~ 600 (DC), 3~	690 (AC), 3~ 600 (DC), 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	
Fuse size mm		10 x 38	–	–	–	–	–	–	
Connection cables, Design		AWG 14	AWG 14	AWG 10	AWG 14	AWG 12	AWG 10	AWG 8	
Connection cables, Length mm		125	120	100	160	100	160	100	
Support rails Qty/height mm		1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	
Support rail version		static	static	static	adjustable	adjustable	adjustable	adjustable	
Width mm		22.5	45	45	45	45	45	45	
Height mm		160	160	160	160	160	160	160	
Depth mm		80	34.5	34.5	34.5	34.5	34.5	34.5	
Model No.		**9635.300**	**9635.310**	**9635.320**	**9635.330**	**9635.340**	**9635.350**	**9635.360**	
	Packs of	1 pc(s).	4 pc(s).	4 pc(s).	4 pc(s).	4 pc(s).	4 pc(s).	4 pc(s).	
Accessories									
Support rail	10 pc(s).	–	–	–	9635.600	9635.600	9635.600	9635.600	293
Positioner		–	–	–	see page	see page	see page	see page	293
Extension module	8 pc(s).	–	–	–	9635.630	9635.630	9635.630	9635.630	293
Extension kit	4 pc(s).	–	–	–	9635.640	9635.640	9635.640	9635.640	293

Component support

Board Page 284 **Connection adaptors** Page 285 **NH fuse-switch disconnectors** Page 290 **Motor controller/power pack** Page 291

Functions:
- For extending the mounting options on the board when using wide equipment

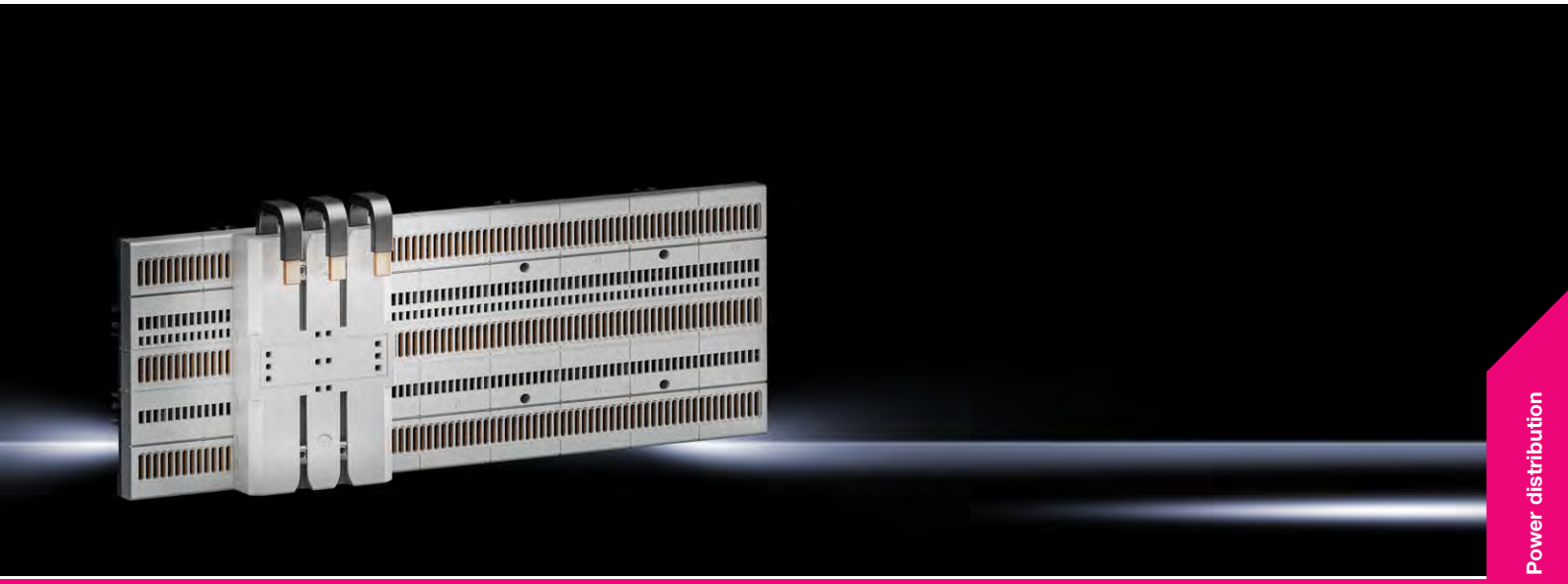
Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Approvals:
- UL

without contact system

Support rails Qty/height mm	Packs of	1 / 10	Page
Support rail version		static	
Width mm		18	
Height mm		160	
Depth mm		34.5	
Model No.	6 pc(s).	**9635.390**	



Board Page 284 **Connection adaptors** Page 285 **NH fuse-switch disconnectors** Page 290 **Motor controller/power pack** Page 291

Functions:
- For mechanical attachment and direct contacting of circuit-breakers on the board
- Circuit-breaker is fitted using variably adjustable fixing points (M4)

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

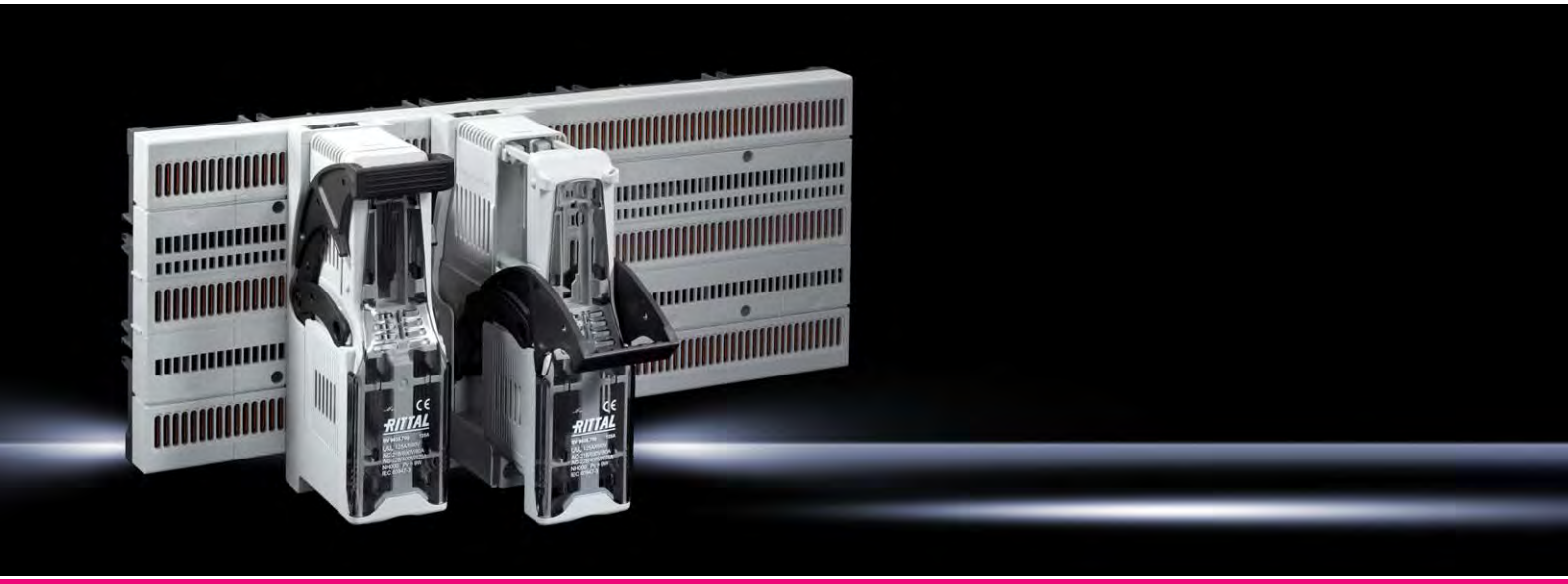
Note:
- Consider the mounting distance of the circuit-breaker when selecting the circuit-breaker component adaptor
- Depending on the circuit-breaker used, there may be a reduction in output
- The technical data may vary for UL applications

Approvals:
- UL

Rated current max. 160 A, 3-pole

Rated current max. A	Packs of	160	160	Page
Rated operating voltage V, ~		690 (AC), 3~ 600 (DC), 3~	690 (AC), 3~ 600 (DC), 3~	
Number of poles		3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	
For switchgear make (model)		ABB (XT1) Allen Bradley (140G-G) Siemens (3VA10, 3VA11, 3VA51)	ABB (XT2) Allen Bradley (140G-H) Eaton (NZM1) Schneider Electric (NSXm)	
Mounting distance mm		25	30	
Width mm		90	90	
Height mm		160	160	
Depth mm		45	45	
Model No.	1 pc(s).	**9635.100**	**9635.110**	

NH fuse-switch disconnectors



Board Page 284 **Connection adaptors** Page 285 **Component adaptors** Page 286 **Motor controller/power pack** Page 291

Functions:
- To protect connected equipment
- Integral test holes provide measurement access to the contact parts of the fuse inserts
- For cable outlet at the top, the NH fuse-switch disconnector must be mounted on the board rotated through 180°

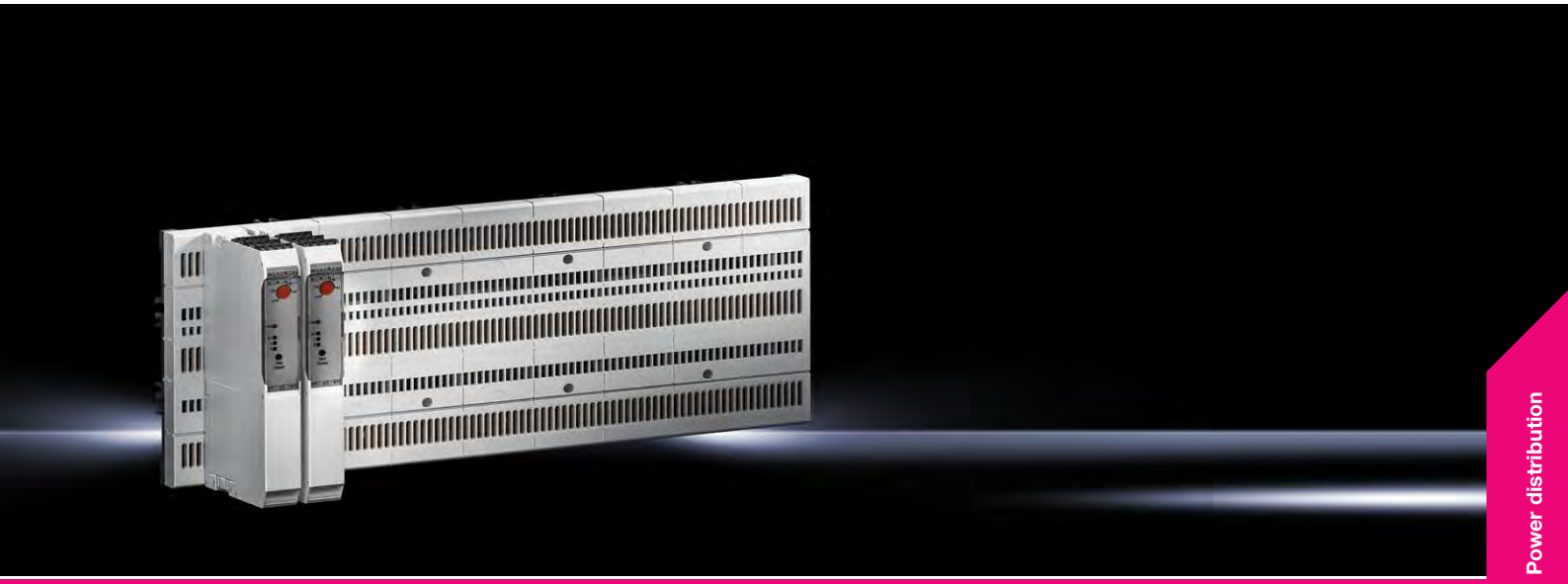
Material:
- Polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Silver-plated hard copper

Colour:
- RAL 7035

Basis of test:
- IEC/DIN EN 60 947-3

Size 000

Size	Packs of	000	Page
Rated operating current max. A		125	
Rated operating voltage V, ~		690 (AC), 3~ 440 (DC), 3~	
Number of poles		3-pole	
Cable outlet		Top/bottom	
Type of connection		Box terminal	
Connection of round conductors mm^2		2.5 - 50	
Clamping area for laminated copper bars (W x H) mm		10 x 10	
Width mm		49.5	
Height mm		174.5	
Depth mm		96	
Model No.	1 pc(s).	**9635.700**	



Board Page 284 **Connection adaptors** Page 285 **Component adaptors** Page 286 **NH fuse-switch disconnectors** Page 290

Functions:
- For controlling motors as direct or reversing starters with integral over-ride protection
- The hybrid technology used facilitates frequent switching by semi-conductors with zero wear
- During operation, mechanical contacts ensure a low heat loss
- Space-saving configuration thanks to the minimal build width

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Note:
- The technical data may vary for UL applications

Rated current max. 0.6 – 9 A, 3-pole

Rated current max. A	Packs of	0.6	2.4	3	9	9	Page
Rated operating voltage V, ~, Hz		500 (AC), 3~, 50/60	500 (AC), 3~, 50/60	500 (AC), 3~, 50/60	500 (AC), 3~, 50/60	500 (AC), 3~, 50/60	
Heat loss max. W		2.8	5.5	5.5	12	12	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	
Fuse size mm		10 x 38	10 x 38	10 x 38	10 x 38	10 x 38	
Connection of round conductors mm^2		0.14 - 2.5	0.14 - 2.5	0.14 - 2.5	0.14 - 2.5	0.14 - 2.5	
Safety integrity level (SIL) to IEC 61 508 - safe switch-off		–	–	3	–	3	
Safety integrity level (SIL) to IEC 61 508 - motor protection		–	–	2	–	2	
Adjustable current monitoring A		0.075 - 0.6	0.18 - 2.4	0.18 - 3	1.5 - 9	1.5 - 9	
Width mm		22.5	22.5	22.5	22.5	22.5	
Height mm		160	160	160	160	160	
Depth mm		114	114	114	114	114	
Approvals		UL	UL	–	UL	–	
Model No.	1 pc(s).	**9635.400**	**9635.410**	**9635.415**	**9635.420**	**9635.425**	

Power pack

Board Page 284 **Connection adaptors** Page 285 **Component adaptors** Page 286 **NH fuse-switch disconnectors** Page 290

Functions:
- 24 V DC control voltage supply
- Integral push-in terminal for tool-free connection of the output
- Supports parallel switching for increased output or for redundancy
- Fast commissioning, thanks to tool-free installation and automatic contacting of the power pack

Material:
- Plastic

Colour:
- RAL 7035

Protection category IP to IEC 60 529:
- IP 20

Protection class:
- II (in the closed enclosure)

Standards:
- EN 61 000-6-2
- IEC 61 010-1 (SELV)

Directives:
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU

Approvals:
- UL

Rated operating voltage V, ~, Hz	Packs of	400, 2~, 50/60 400, 3~, 50/60 500, 2~, 50/60 500, 3~, 50/60	Page
Output voltage V (DC)		24	
Output current (max.) A		5	
Connection of round conductors mm^2		0.2 - 4	
Width mm		36	
Height mm		160	
Depth mm		159	
Operating temperature range		-25 °C...+70 °C	
Storage temperature range		-40 °C...+85 °C	
Model No.	1 pc(s).	**9635.800**	

Support rail

for Comfort component adaptors
For attaching equipment and reverser combinations.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 9005

Width mm	Height mm	Packs of	**Model No.**
45	56	10 pc(s).	**9635.600**

Positioner

for Comfort component adaptors
For attaching equipment and reverser combinations.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 9005

Width mm	Height mm	For switchgear make (model)	Packs of	**Model No.**
45	65	Siemens (S00, S0)	10 pc(s).	**9635.610**
45	47.5	Eaton (PKZ/PKE size 0)	10 pc(s).	**9635.620**

Extension module

for Comfort component adaptors
For attaching direct starters of varying lengths.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Width mm	Height mm	Packs of	**Model No.**
45	40	8 pc(s).	**9635.630**

Extension kit

for Comfort component adaptors
For attaching reverser combinations with 90 mm width.

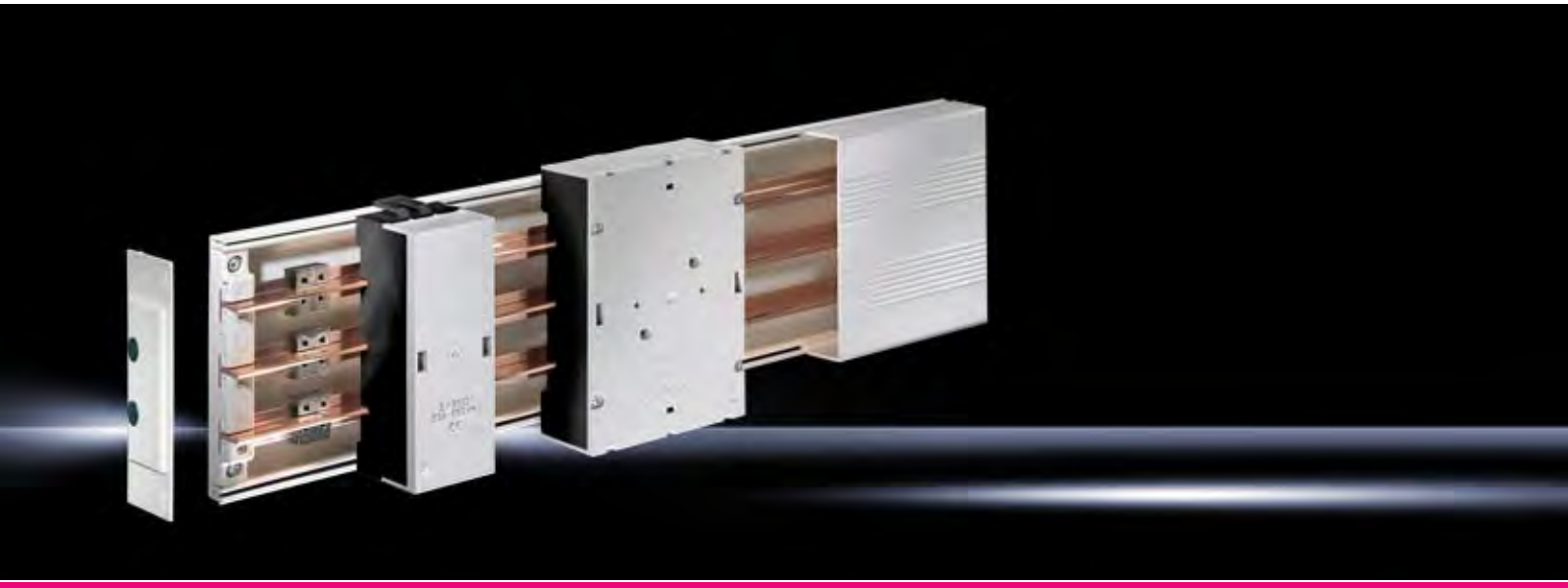
Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Supply includes:
– 1 set consisting of 1 expansion module, 2 extension modules, 3 connection pins
– 1 set ≙ 1 pc(s).

Width mm	Height mm	Packs of	**Model No.**
90	80	4 pc(s).	**9635.640**

Mini-PLS busbar system (40 mm)



Component adaptors Page 296 **Fuse elements** Page 295

Busbar supports, busbar connection adaptors

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

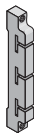
Colour:
- RAL 7035
- RAL 9011 (busbar connection adaptor chassis)

Contact hazard protection

Material:
- Thermally modified hard PVC
- Fire protection corresponding to UL 94-V0

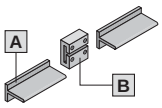
Colour:
- RAL 7035

Mini-PLS busbar supports (3-pole)



Busbar supports, suitable for top mounting	Packs of	■
Bar centre distance mm		40
Approvals		UR
Model No.	4 pc(s).	**9600.000**

A Mini-PLS special busbars E-Cu, bar thickness 3 mm, bar cross-section 120 mm²

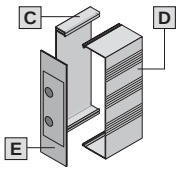


Length mm	Packs of	500	700	1100	1500
Approvals		UR	UR	UR	UR
Model No.	3 pc(s).	**9601.000**	**9602.000**	**9603.000**	**9624.000**

Accessories

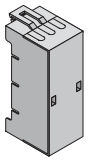
	Approvals		**Model No.**
B Busbar connectors	UR	3 pc(s).	**9611.000**

Mini-PLS contact hazard protection



Components	Approvals	Length mm	Packs of	**Model No.**
C Base tray	UR	500	1 pc(s).	**9605.000**
		700	1 pc(s).	**9606.000**
		1100	1 pc(s).	**9607.000**
D Cover section	UR	250	1 pc(s).	**9608.000**
		500	1 pc(s).	**9609.000**
E End cover	UR	–	2 pc(s).	**9610.000**

Mini-PLS busbar connection adaptors (3-pole)



				Page
Rated max. current A	Packs of	63	250	
Rated operating voltage V, ~		690, 3~	690, 3~	
Cable outlet		Top/bottom	Top/bottom	
Connection of round conductors mm²		1.5 – 35	10 – 120	
Clamping area for laminated copper bars, W x H mm		10 x 8	17 x 15	
Width mm		54	115	
Height mm		160	182	
Approvals		UR	UR	
Model No.	1 pc(s).	**9613.000**	**9612.000**	

Accessories

Laminated copper bar		■	■	346

Busbar system Page 294 **Connection adaptors** Page 294 **Connection adaptors** Page 296

Bus-mounting fuse base

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- Chassis: RAL 9011
- Cover: RAL 7035

NH fuse-switch disconnector

Material:
- Fibreglass-reinforced polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Silver-plated hard copper

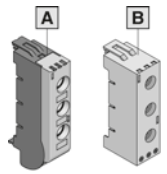
Colour:
- RAL 7035

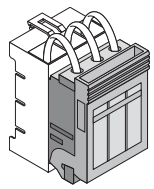
Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Busbar adaptor

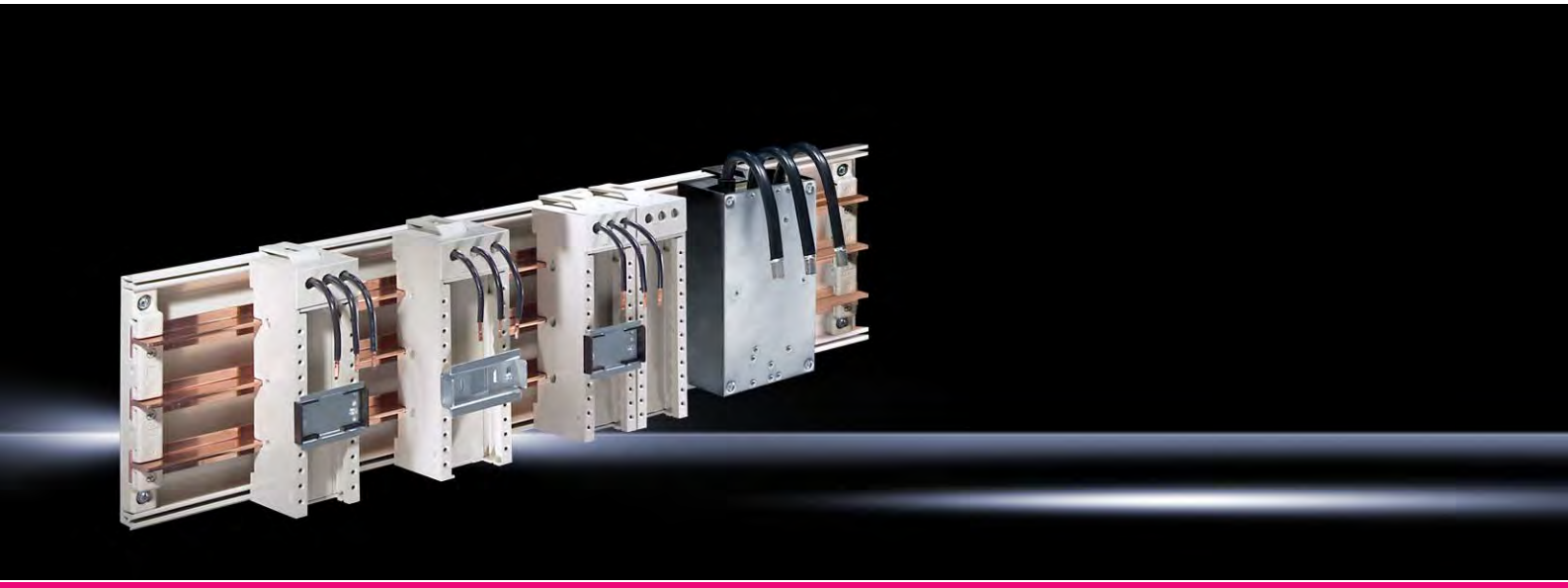
Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 9011

Mini-PLS bus-mounting fuse base (3-pole)			A	B
	Fuse insert	Packs of	D 02-E18	D 02-E18
	Rated max. current A		63	63
	Rated operating voltage V, ~		400, 3~	400, 3~
	Connection of round conductors mm²		1.5 – 16	1.5 – 16
	Connection type		Spring terminal	Box terminal
	Width mm		39.5	38
	Height mm		189	160
	Model No.	1 pc(s).	**9630.005**	**9630.000**

NH fuse-switch disconnector size 000 (3-pole)				
	Rated operating current max. A	Packs of	100	Page
	Rated operating voltage V, ~		690, 3~	
	Cable outlet		Top/bottom	
	Connection type		Box terminal	
	Connection of round conductors mm²		1.5 – 50	
	Clamping area for laminated copper bars, W x H mm		10 x 10	
	Width mm		89	
	Height mm		141.5	
	Model No.	1 pc(s).	**3431.000**	325
Also required				
Mini-PLS busbar adaptor (3-pole)				
With connection cables mm²			35	
Width mm			90	
Height mm			160	
Model No.		1 pc(s).	**9629.100**	
Accessories				
Micro-switch		5 pc(s).	3071.000	358

Mini-PLS component adaptors

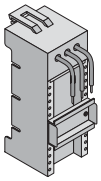
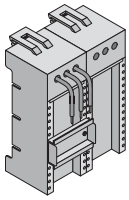


Busbar system Page 294 **Busbar connection adaptors** Page 294 **Fuse elements** Page 295 **Switchgear assignment** Page 297

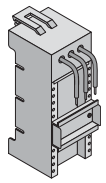
Material:
- Polyamide (PA 6.6)
- Fire protection corresponding to UL 94-V0

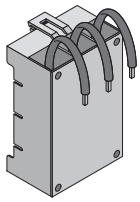
Colour:
- RAL 7035
- RAL 9011 (9629.000)

Rated current max. 12 – 25 A

										
Rated max. current A		Packs of	12	25	25	25	25	25	25	Page
Rated operating voltage V, ~			690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles			3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	
Connection cables			AWG 14	AWG 12	AWG 12	AWG 12	AWG 12	AWG 12	AWG 12	
Support rails quantity/height mm			1/7.5	1/7.5	1/15	1/7.5	1/15	1/7.5	1/7.5	
Width mm			45	45	45	54	54	72	90	
Height mm			160	160	160	160	160	160	160	
Approvals			UR	UR	UR	UR	UR	UR	–	
Model No.		1 pc(s).	**9614.110**	**9614.100**	**9615.100**	**9614.000**	**9615.000**	**9625.000**	**9629.010**	
Accessories										
Insert strip		2 pc(s).	9623.000	9623.000	9623.000	9623.000	9623.000	9623.000	9623.000	353
Support rails, height 7.5 mm	Width 45 mm	10 pc(s).	9320.150	9320.150	9320.150	–	–	–	9320.150	352
	Width 54 mm	10 pc(s).	–	–	–	3548.000	3548.000	–	–	352

Rated current max. 40 – 100 A





Rated max. current A			Packs of	40	40	40	100	Page
Rated operating voltage V, ~				690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles				3-pole	3-pole	3-pole	3-pole	
Connection cables				AWG 10	AWG 10	AWG 10	35 mm²	
Support rails quantity/height mm				1/7.5	1/15	1/7.5	–	
Width mm				54	54	72	90	
Height mm				160	160	160	160	
Approvals				UR	UR	UR	UR	
Model No.			1 pc(s).	**9616.000**	**9617.000**	**9627.000**	**9629.000**	
Accessories								
Insert strip			2 pc(s).	9623.000	9623.000	9623.000	–	353
Support rails	Height 7.5 mm	Width 54 mm	10 pc(s).	3548.000	3548.000	–	–	352
	Height 15 mm	Width 72 mm	5 pc(s).	–	–	–	9320.120	352

Switchgear assignment – Mini-PLS component adaptors 12 A/25 A

Make/model	Model No.
ABB	
MS116	9614.100
MS325	9614.000
MS450 (max. 25 A)	9614.000
MS451 (max. 25 A)	9614.000
Eaton	
PKZM0 (up to 25 A)	9614.100
PKZM01 (up to 25 A)	9614.100
PKZM4 (up to 25 A)	9614.000
PKE12	9614.100
PKE32 (up to 25 A)	9614.100
PKE65 (up to 25 A)	9614.000
Schneider Electric	
GV2-P (up to 25 A)	9614.100
GV2-RT	9614.100
GV2-LE10	9614.100
GV3 (up to 25 A)	9614.100

Make/model	Model No.
Siemens	
S0	
3RV10 21...	9614.100
3RV20 21... (up to 25 A)	9614.100
S00	
3RV10 11...	9614.100[1)]
3RV20 11...	9614.100[1)]
S2	
3RV10 31... (up to 25 A)	9614.000

[1)] Support rail must be offset

Switchgear assignment – Mini-PLS component adaptors 40 A/100 A

Make/model	Model No.	Accessories Model No.
ABB		
MS450 (max. 40 A)	9617.000	–
MS451 (max. 40 A)	9629.000	9320.120
MS495	9629.000	9320.120
MS496	9629.000	9320.120
MS497	9629.000	9320.120
Tmax		
T1	9629.000	–
T2	9629.000	–
Eaton		
NZM 1	9629.000	–
PKZ2	9627.000	–
PKZM4 (max. 40 A)	9617.000	–
PKZM4	9629.000	9320.120

Make/model	Model No.	Accessories Model No.
Schneider Electric		
NS 80	9629.000	–
GV3 (max. 40 A)	9616.000	–
GV3	9629.000	9320.120
Siemens		
S2		
3RV10 31... (max. 40 A)	9616.000	–
3RV10 31...	9629.000	9320.120
S3		
3RV1341/42	9629.000	9320.120

Rittal – The System.

Faster – better – everywhere.

RiLine

Busbar systems 3-/4-pole and DC

Support + bars + contact hazard protection

- Flat copper bar system, see page 300
- PLS busbar system, see page 302
- Accessories, see page 340

Connection system 3- and 4-pole

- Busbar connection adaptors, see page 304
- Connection clamps, see page 349
- Connection block, see page 351
- Accessories, see page 349

Power distribution

Component adaptors 3- and 4-pole

- OM adaptors, see page 307
- Circuit-breaker component adaptors, see page 314
- Accessories, see page 352

Fuse elements 3-pole

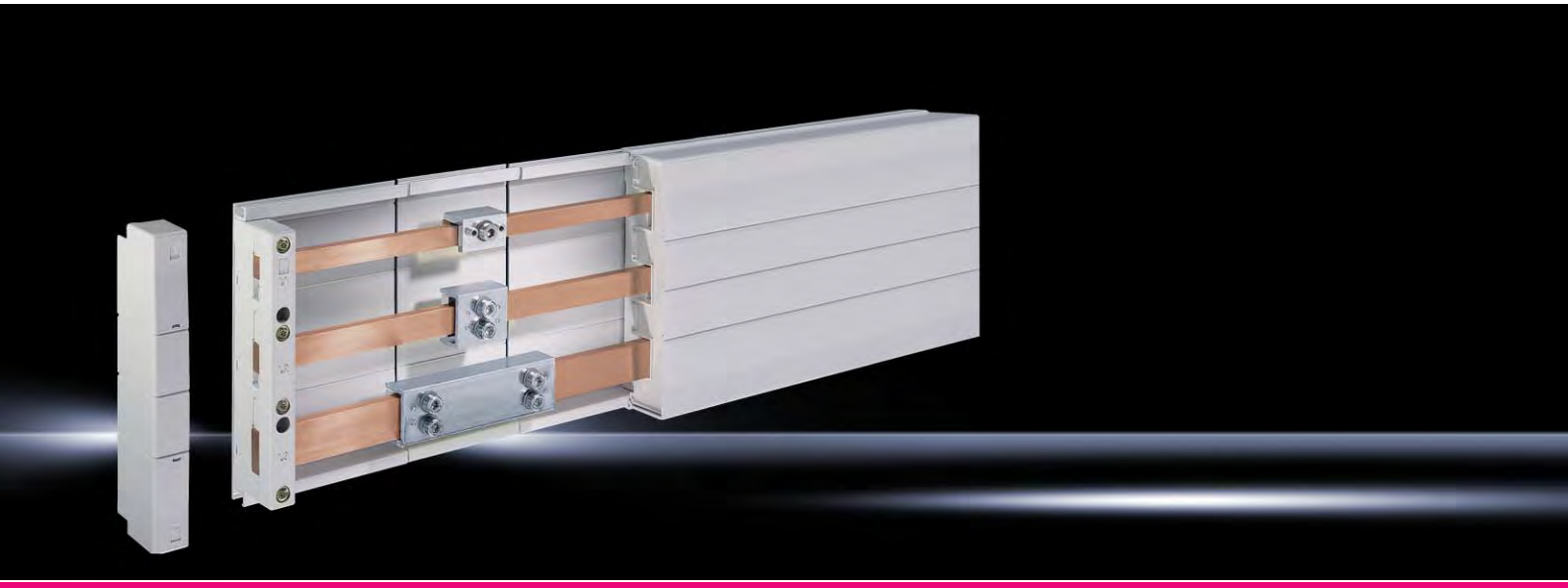
- Bus-mounting fuse bases, see page 323
- NH fuse-switch disconnectors, see page 325
- NH slimline fuse-switch disconnectors, see page 335
- Fuse holders, see page 337
- Accessories, see page 356

VX25 Power Engineering

see page 446

- Simple component selection, integral switchgear database
- Automatic calculation of rated currents and heat losses
- Configuration of RiLine busbar systems (offline version RPE 7.0)

RiLine busbar systems up to 800 A (60 mm)



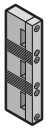
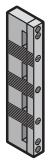
Busbar connection adaptors Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314 **Fuse elements** Page 323

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Note:
- UL approval only valid in conjunction with AC applications
- The use of a base tray is required for UL applications.

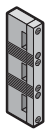
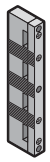
Flat copper busbar system

Busbar supports							
							
Number of poles		Packs of	3-pole	3-pole	3-pole	4-pole	Page
Bar centre distance mm			60	60	60	60	
External attachment			■	–	–	–	
Internal attachment			–	■	■	■	
For busbars mm	12 x 5/10		■	■	–	■	
	15 x 5 – 30 x 10		■	■	■	■	
Rated operating voltage V, ~			1000, 3~	1000, 3~	1000, 3~	1000, 3~	
			–	–	1500 (DC)	–	
Approvals			–	–	UL	UL	
Model No.		4 pc(s).	**9340.010**	**9340.000**	**9340.050**	**9340.004**	
Also required							
Spacers when using busbars 12 x 5/10 mm			■	■	–	■	
Model No.		12 pc(s).	9340.090	9340.090	–	9340.090	341

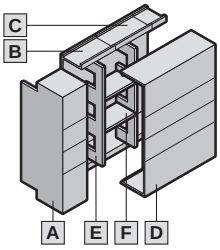
RiLine busbar systems up to 800 A (60 mm)

Flat copper busbar system

Busbar supports

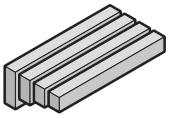
						
Number of poles	Packs of	3-pole	3-pole	3-pole	4-pole	Page
Bar centre distance mm		60	60	60	60	
Model No.	4 pc(s).	9340.010	9340.000	9340.050	9340.004	300
Also required						
Spacer when using busbars 12 x 5/10 mm		■	■	–	■	
Model No.	12 pc(s).	9340.090	9340.090	–	9340.090	341

Contact hazard protection



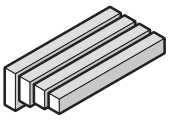
Components	Length mm	Approvals	Packs of	Model No.			Model No.	Page
A End covers	–	UL	2 pc(s).	**9340.070**	**9340.070**	**9340.070**	**9340.074**	–
B Base trays	500	UL	2 pc(s).	–	9340.100	9340.100	–	347
	700	UL	2 pc(s).	–	9340.110	9340.110	–	347
	900	UL	2 pc(s).	–	9340.120	9340.120	–	347
	1100	UL	2 pc(s).	–	9340.130	9340.130	9340.134	347
	2400	UL	1 pc(s).	–	9340.170	9340.170	–	347
C Base tray infills	100	UL	2 pc(s).	–	9340.140	9340.140	–	347
D Cover sections	700	UL	2 pc(s).	–	9340.200	9340.200	–	348
	1100	UL	2 pc(s).	–	9340.210	9340.210	9340.214	348
E Support panels	–	UL	5 pc(s).	–	9340.220	9340.220	9340.224	348
F Cross members	160	UL	2 pc(s).	–	–	9340.230	–	348

Busbars E-Cu, length: 2400 mm/bar



Dimensions mm	Max. rated current A according to DIN[1]	Max. rated current A according to UL 508	Approvals	Packs of	Model No.			Model No.	Page
12 x 5	210	160	UL	6 pc(s).	3580.000	3580.000	3580.000	3580.000	342
12 x 10	340	320	UL	6 pc(s).	3580.100	3580.100	3580.100	3580.100	342
15 x 5	260	200	UL	6 pc(s).	3581.000	3581.000	3581.000	3581.000	342
15 x 10	360	400	UL	6 pc(s).	3581.100	3581.100	3581.100	3581.100	342
20 x 5	274	270	UL	6 pc(s).	3582.000	3582.000	3582.000	3582.000	342
20 x 10	427	540	UL	3 pc(s).	3585.005	3585.005	3585.005	3585.005	342
25 x 5	327	330	UL	6 pc(s).	3583.000	3583.000	3583.000	3583.000	342
30 x 5	379	400	UL	6 pc(s).	3584.000	3584.000	3584.000	3584.000	342
30 x 10	573	810	UL	3 pc(s).	3586.005	3586.005	3586.005	3586.005	342

CUPONAL busbars, length: 2400 mm/bar



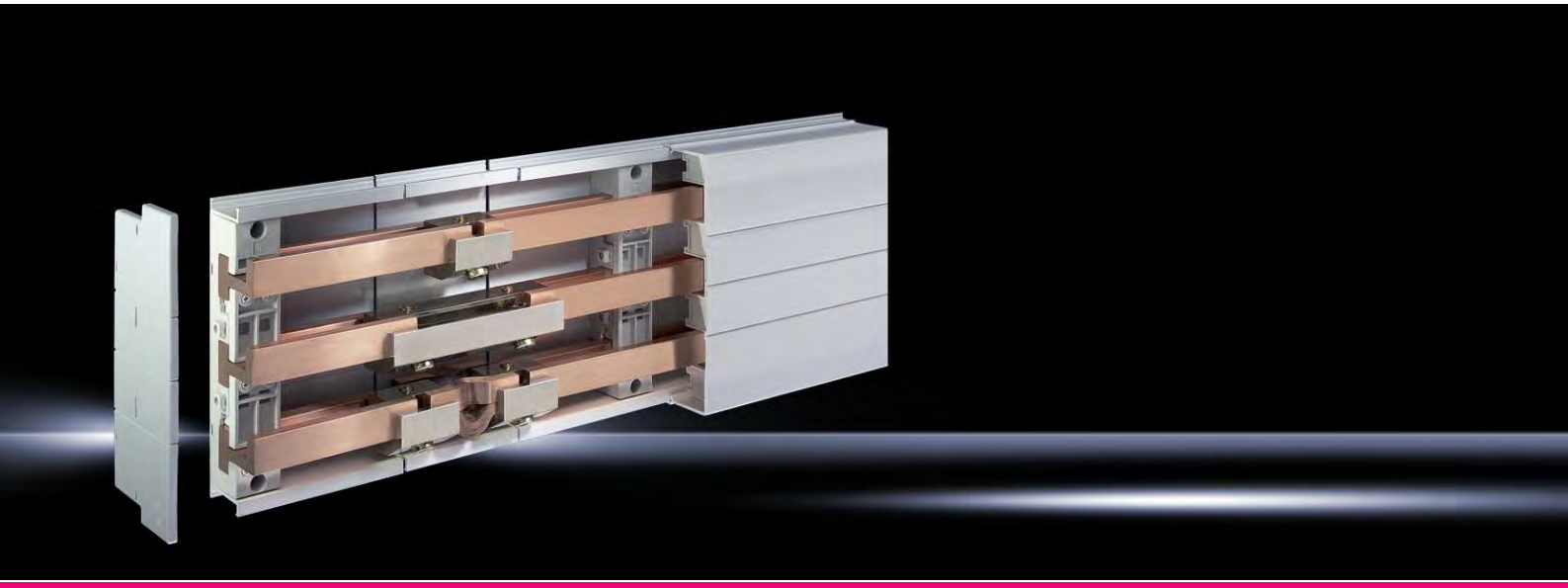
Dimensions mm	Max. rated current A according to DIN[1]	Max. rated current A according to UL 508	Approvals	Packs of	Model No.			Model No.	Page
20 x 5	235	–	–	6 pc(s).	–	3582.020	3582.020	–	342
20 x 10	363	–	–	3 pc(s).	–	3585.020	3585.020	–	342
30 x 5	328	–	–	6 pc(s).	–	3584.020	3584.020	–	342
30 x 10	493	–	–	3 pc(s).	–	3586.020	3586.020	–	342

Accessories

Components	For busbars mm	Approvals	Packs of	Model No.			Model No.	Page
Busbar connectors for single connection	12 x 5 – 15 x 10	UL	3 pc(s).	9350.075	9350.075	9350.075	9350.075	343
	20 x 5 – 30 x 10	UL	3 pc(s).	9320.020	9320.020	9320.020	9320.020	343
Busbar connectors for baying connection[2]	20 x 5 – 30 x 10	UL	3 pc(s).	9320.030	9320.030	9320.030	9320.030	343
Busbar cover sections Length: 1000 mm/section	12 x 5 – 30 x 10	UR	10 pc(s).	3092.000	3092.000	3092.000	3092.000	343
	12/15 x 5	UR	4 pc(s).	9350.010	9350.010	9350.010	9350.010	343
	12/15 x 10	UR	4 pc(s).	9350.060	9350.060	9350.060	9350.060	343

[1] Maximum rated value of an exposed, uncovered busbar at a temperature increase of 30 K to DIN 43 671
[2] Connection from enclosure to enclosure

RiLine busbar systems 800 A/1600 A (60 mm)



Busbar connection adaptors Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314 **Fuse elements** Page 323

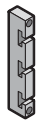
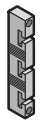
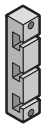
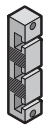
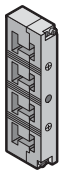
Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Note:
- UL approval only valid in conjunction with AC applications
- The use of a base tray is required for UL applications.

PLS busbar system

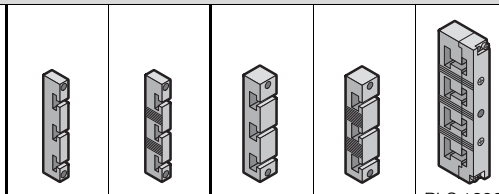
Busbar supports

						 PLS 1600 PLUS
For Rittal system	Packs of	**PLS 800**		**PLS 1600**		
Number of poles		3-pole	3-pole	3-pole	3-pole	4-pole
Bar centre distance mm		60	60	60	60	60
Internal attachment		■	■	■	■	■
Busbar support, suitable for top mounting		■	■	■	■	–
Rated operating voltage V, ~		1000, 3~	1000, 3~	1000, 3~	1000, 3~	1000, 3~
		–	1500 (DC)	–	1500 (DC)	–
Approvals		–	UL	–	UL	UL
Model No.	4 pc(s).	**9341.000**	**9341.050**	**9342.000**	**9342.050**	**9342.004**

RiLine busbar systems 800 A/1600 A (60 mm)

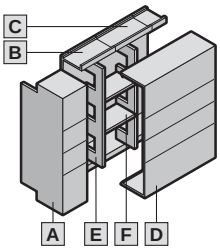
PLS busbar system

Busbar supports



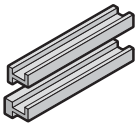
For Rittal system	Packs of	PLS 800		PLS 1600			Page
Number of poles		3-pole	3-pole	3-pole	3-pole	4-pole	
Bar centre distance mm		60	60	60	60	60	
Model No.	4 pc(s).	9341.000	9341.050	9342.000	9342.050	9342.004	302

Contact hazard protection



Components	Length mm	Approvals	Packs of	Model No.		Model No.			Page
A End covers	–	UL	2 pc(s).	**9341.070**	**9341.070**	**9342.070**	**9342.070**	**9342.074**	–
B Base trays	500	UL	2 pc(s).	9341.100	9341.100	9342.100	9342.100	–	347
	700	UL	2 pc(s).	9341.110	9341.110	9342.110	9342.110	–	347
	900	UL	2 pc(s).	9341.120	9341.120	9342.120	9342.120	–	347
	1100	UL	2 pc(s).	9341.130	9341.130	9342.130	9342.130	9342.134	347
	2400	UL	1 pc(s).	9341.170	–	9342.170	–	–	347
C Base tray infills	100	UL	2 pc(s).	9341.140	9341.140	9342.140	9342.140	–	347
D Cover sections	700	UL	2 pc(s).	9340.200	9340.200	9340.200	9340.200	–	348
	1100	UL	2 pc(s).	9340.210	9340.210	9340.210	9340.210	9340.214	348
E Support panels	–	UL	5 pc(s).	9340.220	9340.220	9340.220	9340.220	9340.224	348
F Cross members	160	UL	2 pc(s).	–	9340.230	–	9340.230	–	348

PLS special busbars E-Cu



Version			Packs of	PLS 800	PLS 1600	Page
Bar cross-section mm²				300	900	
Bar thickness mm				5	10	
Max. rated current A acc. to	DIN[1]			684	1368	
	UL 508			890	1500	
Length mm	For enclosure width mm	Approvals		Model No.	Model No.	
495	600	UL	3 pc(s).	3524.000	3527.000	344
695	800	UL	3 pc(s).	3525.000	3528.000	344
895	1000	UL	3 pc(s).	3525.010	3528.010	344
1095	1200	UL	3 pc(s).	3526.000	3529.000	344
2400	variable	UL	1 pc(s).	3509.000	3516.000	344

Accessories

Components		Approvals	Packs of	Model No.	Model No.	Page
PLS busbar connectors	Single connection	UL	3 pc(s).	3504.000	3514.000	344
	Bayed connection[2]	UL	3 pc(s).	3505.000	3515.000	344
PLS expansion connector[3]		UR	3 pc(s).	9320.060	9320.070	345

[1] Maximum rated value of an exposed, uncovered busbar at a temperature increase of 30 K to DIN 43 671
[2] Connection from enclosure to enclosure
[3] 2 PLS busbar connectors (single connection) are required to fit one expansion connector

Connection adaptors

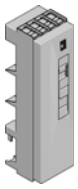
Busbar system Page 300 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314 **Fuse elements** Page 323

Material:
- Cover: ABS
- Punched section: Polyamide
- Chassis 3439.010: Fibreglass-reinforced, thermoplastic polyester (PBT)
- Fire protection corresponding to UL 94-V0

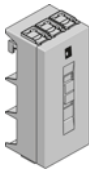
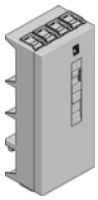
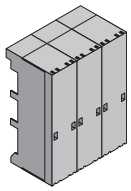
Colour:
- RAL 7035

Note:
- The technical data may vary for UL applications
- UL approval only applies in conjunction with AC application
- The rated operating voltage for DC applications depends on the busbar arrangement in the busbar supports 9340.050/ 9341.050/9342.050.

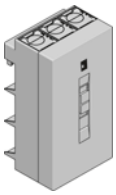
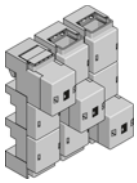
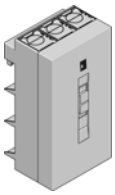
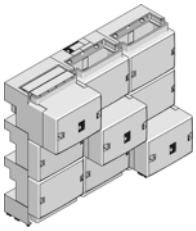
Rated current max. 63 – 125 A

							
Rated current max. A	Packs of	63	63	125	125	125	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 4~	
Rated operating voltage (L1 + L2) V		–	1000 (DC)	–	1000 (DC)	–	
Rated operating voltage (L1 + L3) V		–	1500 (DC)	–	1500 (DC)	–	
Number of poles		3-pole	3-pole	3-pole	3-pole	4-pole	
Cable outlet		Top	Bottom	Top/bottom	Bottom	Top/bottom	
Connection of round conductors, fine wire with wire end ferrule mm^2		2.5 - 10	2.5 - 10	10 - 25	10 - 25	10 - 25	
Connection of round conductors, multi-wire mm^2		2.5 - 10	2.5 - 10	16 - 35	16 - 35	16 - 35	
Connection of round conductors, single-wire mm^2		2.5 - 10	2.5 - 10	–	–	–	
Clamping area for laminated copper bars (W x H) mm		–	–	10 x 7.8	10 x 7.8	10 x 7.8	
Clamping area for laminated copper bars with 5 mm bar thickness (W x H)		–	–	–	–	–	
Clamping area for laminated copper bars with 10 mm bar thickness (W x H)		–	–	–	–	–	
Width mm		20	20	55	55	75	
Height mm		215	215	210	210	270	
Approvals		UL	UL	UR	UL	UL	
For bar systems with centre-to-centre spacing mm		60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9342.200**	**9342.210**	**9342.220**	**9342.240**	**9342.224**	
Accessories							
Laminated copper bar		–	–	see page	see page	see page	346
Connection adaptor expansion set		–	–	–	–	–	

Rated current max. 250 – 600 A

						
Rated current max. A	Packs of	250	250	250	600	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 4~	690, 3~	
Rated operating voltage (L1 + L2) V		–	1000 (DC)	–	–	
Rated operating voltage (L1 + L3) V		–	1500 (DC)	–	–	
Number of poles		3-pole	3-pole	4-pole	3-pole	
Cable outlet		Top/bottom	Bottom	Top/bottom	Top/bottom	
Connection of round conductors, fine wire with wire end ferrule mm²		35 - 120	35 - 120	35 - 120	35 - 240	
Connection of round conductors, multi-wire mm²		35 - 120	35 - 120	35 - 120	35 - 240	
Connection of round conductors, single-wire		–	–	–	–	
Clamping area for laminated copper bars (W x H) mm		18.5 x 15.5	18.5 x 15.5	18.5 x 15.5	24 x 21	
Clamping area for laminated copper bars with 5 mm bar thickness (W x H)		–	–	–	–	
Clamping area for laminated copper bars with 10 mm bar thickness (W x H)		–	–	–	–	
Width mm		90	90	118	180	
Height mm		210	210	270	247	
Approvals		UL	UL	UL	–	
For bar systems with centre-to-centre spacing mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9342.250**	**9342.270**	**9342.254**	**3439.010**	
Accessories						
Laminated copper bar		see page	see page	see page	see page	346
Connection adaptor expansion set		–	–	–	–	

Rated current max. 800 – 1600 A

						
Rated current max. A	Packs of	800	800	800	1600	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Rated operating voltage (L1 + L2) V		–	1000 (DC)	1000 (DC)	1000 (DC)	
Rated operating voltage (L1 + L3) V		–	1500 (DC)	1500 (DC)	1500 (DC)	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Bottom	Top/bottom	
Connection of round conductors, fine wire with wire end ferrule mm²		95 - 185	95 - 185	95 - 185	–	
Connection of round conductors, multi-wire mm²		95 - 300	95 - 300	95 - 300	–	
Connection of round conductors, single-wire		–	–	–	–	
Clamping area for laminated copper bars (W x H) mm		33 x 20	–	33 x 20	–	
Clamping area for laminated copper bars with 5 mm bar thickness (W x H) mm		–	33 x 26	–	65 x 27	
Clamping area for laminated copper bars with 10 mm bar thickness (W x H) mm		–	33 x 21	–	65 x 22	
Width mm		129	150	129	255	
Height mm		246	210	246	210	
Approvals		UR	UL	UL	UL	
For bar systems with centre-to-centre spacing mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9342.280**	**9342.310**	**9342.300**	**9342.320**	
Accessories						
Laminated copper bar		see page	see page	see page	see page	346
Connection adaptor expansion set	1 pc(s).	–	9342.314	–	9342.324	306

Connection adaptor expansion set

Busbar system Page 300 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314 **Fuse elements** Page 323

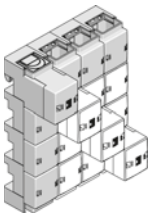
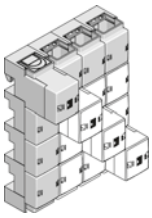
Single-pole extra set to complement the 3-pole connection adaptor for 4-pole configurations.

Material:
- Cover: ABS
- Punched section: Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Note:
- The technical data may vary for UL applications
- UL approval only applies in conjunction with AC application

for 4-pole configuration

				
To fit Model No.	Packs of	9342.310	9342.320	Page
Rated current max. A		800	1600	
Rated operating voltage V, ~		690, 1~	690, 1~	
Number of poles		Single-pole	Single-pole	
Connection of round conductors, fine wire with wire end ferrule mm^2		95 - 185	–	
Connection of round conductors, multi-wire mm^2		95 - 300	–	
Clamping area for laminated copper bars with 5 mm bar thickness (W x H) mm		33 x 26	65 x 27	
Clamping area for laminated copper bars with 10 mm bar thickness (W x H) mm		33 x 21	65 x 22	
Width mm		50	85	
Height mm		270	270	
Approvals		UL	UL	
For bar systems with centre-to-centre spacing mm		60	60	
For bar thickness mm		5/10	5/10	
Model No.	1 pc(s).	**9342.314**	**9342.324**	
Accessories				
Laminated copper bar		see page	see page	346

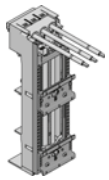
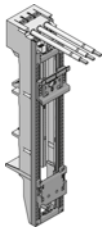
Busbar system Page 300 **Connection adaptors** Page 304 **Fuse elements** Page 323 **Allocation of switchgear** Page 319

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- Chassis: RAL 7035

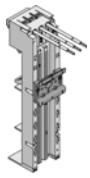
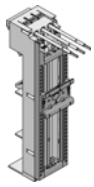
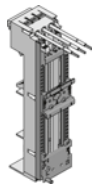
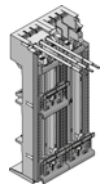
Note:
- The technical data may vary for UL applications

Rated current max. 16 A, with connection cables

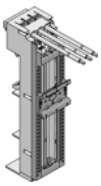
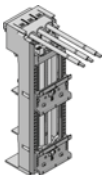
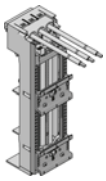
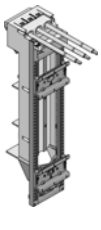
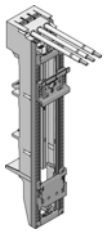
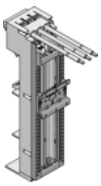
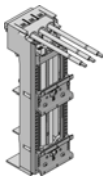
				
Rated current max. A	Packs of	16	16	Page
Rated operating voltage V, ~		690, 3~	690, 3~	
Number of poles		3-pole	3-pole	
Connection cables, Design		AWG 12	AWG 12	
Connection cables, Length mm		165	165	
With support frame mm		45 x 170	45 x 237	
With support frame support		–	■	
With PinBlock		–	■	
With insert strips		–	–	
Support rails Qty/height mm		2 / 10	1 / 10	
Support rail version		TS 45D TS 45D-V	TS 45D	
Width mm		45	45	
Height mm		208	272	
Approvals		UL	UL	
For bar systems with centre-to-centre spacing mm		60	60	
For bar thickness mm		5/10	5/10	
Model No.	1 pc(s).	**9340.780**	**9340.760**	
Accessories				
Support rail 35 x 10 mm		see page	see page	352
Insert strip	2 pc(s).	9340.290	9340.290	353
Connection pin	20 pc(s).	9340.280	9340.280	354
PinBlock	5 pc(s).	9342.800	–	354
OM supports		see page	see page	313

OM adaptors

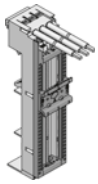
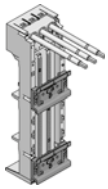
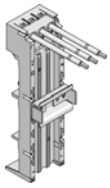
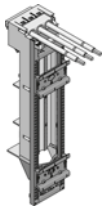
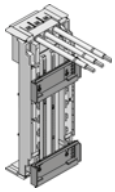
Rated current max. 25 A, with connection cables

							
Rated current max. A	Packs of	25	25	25	25	25	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	
Connection cables, Design		AWG 12	AWG 12	AWG 12	AWG 12	AWG 12	
Connection cables, Length mm		130	130	130	130	130	
With support frame mm		–	45 x 170	45 x 170	–	45 x 170	
With support frame support		–	–	–	–	–	
With PinBlock		–	–	■	–	–	
With insert strips		–	–	–	–	–	
Support rails Qty/height mm		1 / 10	1 / 10	1 / 10	2 / 10	3 / 10	
Support rail version		TS 45C	TS 45C	TS 45C	TS 45D	TS 45D TS 45D-V	
Width mm		45	45	45	45	90	
Height mm		208	208	208	208	208	
Approvals		–	–	–	–	–	
For bar systems with centre-to-centre spacing mm		60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9340.310**	**9340.340**	**9340.370**	**9340.320**	**9340.400**	
Accessories							
Support rail 35 x 10 mm		see page	see page	see page	see page	see page	352
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	9340.290	–	353
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	9340.280	–	354
PinBlock	5 pc(s).	–	9342.800	–	–	9342.800	354
OM supports		see page	see page	see page	see page	–	313

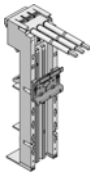
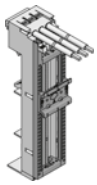
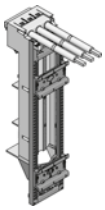
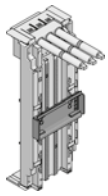
Rated current max. 32 A, with connection cables

									
Rated current max. A	Packs of	32	32	32	32	32	32	32	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	
Connection cables, Design		AWG 10	AWG 10	AWG 10	AWG 10	AWG 10	AWG 10	AWG 10	
Connection cables, Length mm		130	130	165	130	165	130	130	
With support frame mm		45 x 170	45 x 170	45 x 170	45 x 237	45 x 237	55 x 170	55 x 170	
With support frame support		–	–	–	■	■	–	–	
With PinBlock		–	–	–	–	■	–	–	
With insert strips		–	–	–	–	–	–	–	
Support rails Qty/height mm		1 / 10	2 / 10	2 / 10	2 / 10	1 / 10	1 / 10	2 / 10	
Support rail version		TS 45C	TS 45D TS 45D-V	TS 45D TS 45D-V	TS 45D TS 45D-V	TS 45D	TS 55D	TS 55D TS 55D-V	
Width mm		45	45	45	45	45	55	55	
Height mm		208	208	208	272	272	208	208	
Approvals		–	–	–	–	–	–	–	
For bar systems with centre-to-centre spacing mm		60	60	60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9340.350**	**9340.380**	**9340.790**	**9340.390**	**9340.770**	**9340.460**	**9340.470**	
Accessories									
Support rail 35 x 10 mm		see page	see page	see page	see page	see page	see page	see page	352
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	9340.290	9340.290	9340.290	9340.290	353
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	9340.280	9340.280	9340.280	9340.280	354
PinBlock	5 pc(s).	9342.800	9342.800	9342.800	9342.800	9342.800	9342.810	9342.810	354
OM supports		see page	see page	see page	see page	see page	see page	see page	313

Rated current max. 40 A, with connection cables

							
Rated current max. A	Packs of	40	40	40	40	40	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	
Connection cables, Design		AWG 8	AWG 8	AWG 8	AWG 8	AWG 8	
Connection cables, Length mm		130	130	130	130	130	
With support frame mm		55 x 170	–	–	55 x 237	–	
With support frame support		–	–	–	■	–	
With PinBlock		–	–	–	–	–	
With insert strips		–	–	–	–	■	
Support rails Qty/height mm		1 / 10	2 / 10	1 / 15	2 / 10	2 / 7.5	
Support rail version		TS 55D	TS 55D	Metal	TS 55D TS 55D-V	Metal	
Width mm		55	55	55	55	75	
Height mm		208	208	208	272	208	
Approvals		–	–	–	–	–	
For bar systems with centre-to-centre spacing mm		60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9340.720**	**9340.740**	**9340.750**	**9340.730**	**9340.710**	
Accessories							
Support rail 35 x 10 mm		see page	see page	see page	see page	–	352
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	9340.290	–	353
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	9340.280	9340.280	354
PinBlock	5 pc(s).	9342.810	–	–	9342.810	–	354
OM supports		see page	see page	see page	see page	see page	313

Rated current max. 65 A, with connection cables

						
Rated current max. A	Packs of	65	65	65	65	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Connection cables, Design		AWG 6	AWG 6	AWG 6	AWG 6	
Connection cables, Length mm		130	130	130	130	
With support frame mm		–	55 x 170	55 x 237	–	
With support frame support		–	–	■	–	
With PinBlock		–	–	–	–	
With insert strips		–	–	–	■	
Support rails Qty/height mm		1 / 10	1 / 10	2 / 10	1 / 7.5	
Support rail version		TS 55E	TS 55E	TS 55E TS 55D-V	Metal	
Width mm		55	55	55	75	
Height mm		208	208	272	208	
Approvals		–	–	–	–	
For bar systems with centre-to-centre spacing mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9340.410**	**9340.430**	**9340.450**	**9340.700**	
Accessories						
Support rail 35 x 10 mm		see page	see page	see page	–	352
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	–	353
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	–	354
PinBlock	5 pc(s).	–	9342.810	9342.810	–	354
OM supports		see page	see page	see page	see page	313

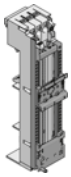
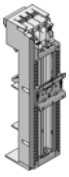
OM adaptors

Busbar system Page 300 **Connection adaptors** Page 304 **Fuse elements** Page 323 **Allocation of switchgear** Page 319

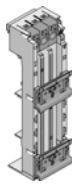
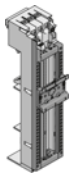
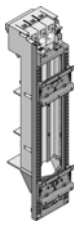
Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- Chassis: RAL 7035

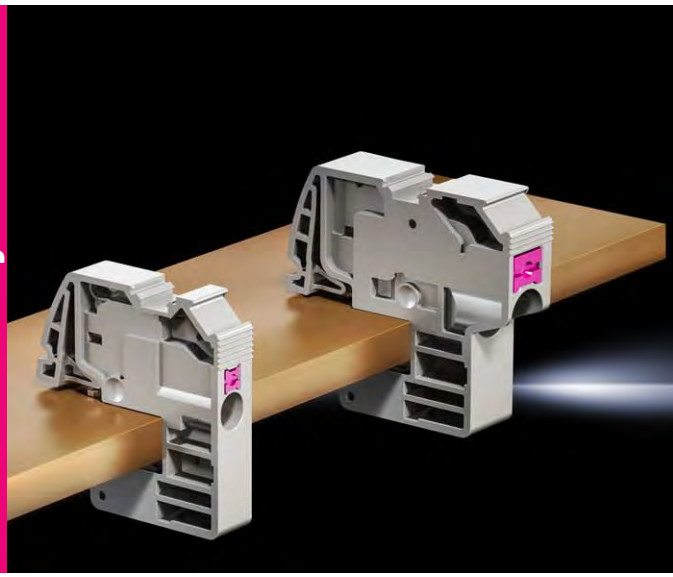
Rated current max. 32 A, with spring terminals

								
Rated current max. A	Packs of	32	32	32	32	32	32	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	
Connection of round conductors mm^2		1.5 - 6	1.5 - 6	1.5 - 6	1.5 - 6	1.5 - 6	1.5 - 6	
With support frame mm		–	–	45 x 170	45 x 170	45 x 237	55 x 170	
With support frame support		–	–	–	–	■	–	
With PinBlock		–	–	–	■	–	–	
Support rails Qty/height mm		1 / 10	2 / 10	1 / 10	1 / 10	2 / 10	1 / 10	
Support rail version		TS 45C	TS 45D	TS 45C	TS 45C	TS 45D TS 45D-V	TS 55D	
Width mm		45	45	45	45	45	55	
Height mm		208	208	208	208	272	208	
For bar systems with centre-to-centre spacing mm		60	60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9340.510**	**9340.520**	**9340.530**	**9340.550**	**9340.560**	**9340.660**	
Accessories								
Support rail 35 x 10 mm		see page	see page	see page	see page	see page	see page	352
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	9340.290	9340.290	9340.290	353
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	9340.280	9340.280	9340.280	354
PinBlock	5 pc(s).	–	–	9342.800	9342.800	9342.800	9342.810	354
Cable set		see page	see page	see page	see page	see page	see page	354
Twin cord		–	–	–	–	–	–	
OM supports		see page	see page	see page	see page	see page	see page	313

Rated current max. 65 A, with spring terminals

						
Rated current max. A	Packs of	65	65	65	65	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Connection of round conductors mm^2		2.5 - 16	2.5 - 16	2.5 - 16	2.5 - 16	
According to a heat dissipation test to IEC 61 439-1, a current carrying capacity of up to 80 A is supported		■	■	■	■	
With support frame mm		–	–	55 x 170	55 x 237	
With support frame support		–	–	–	■	
With PinBlock		–	–	–	–	
Support rails Qty/height mm		1 / 10	2 / 10	1 / 10	2 / 10	
Support rail version		TS 55E	TS 55E TS 55D	TS 55E	TS 55E TS 55D-V	
Width mm		55	55	55	55	
Height mm		208	208	208	272	
For bar systems with centre-to-centre spacing mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9340.610**	**9340.620**	**9340.630**	**9340.650**	
Accessories						
Support rail 35 x 10 mm		see page	see page	see page	see page	352
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	9340.290	353
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	9340.280	354
PinBlock	5 pc(s).	–	–	9342.810	9342.810	354
Cable set		see page	see page	see page	see page	354
Twin cord		see page	see page	see page	see page	355
OM supports		see page	see page	see page	see page	313

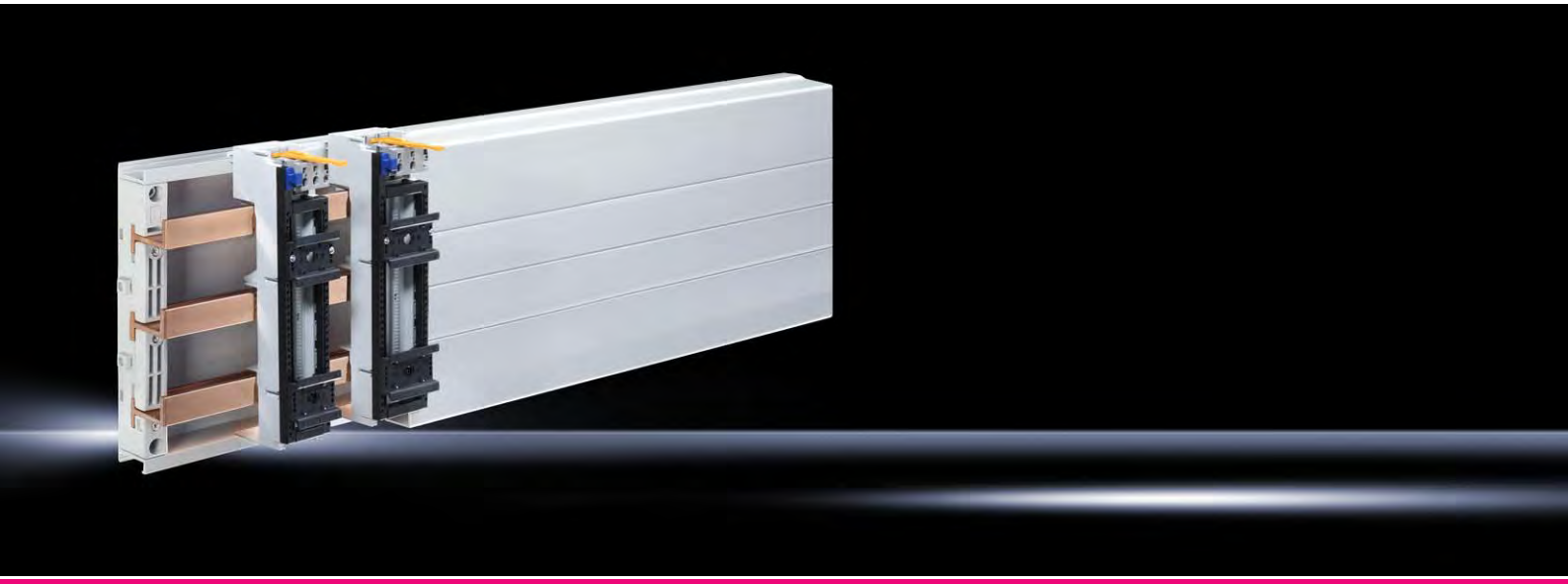
Rittal – The System.



Conductor connection clamps

see page 349

OM adaptors

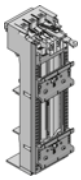
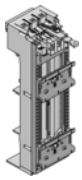


Busbar system Page 300 **Connection adaptors** Page 304 **Fuse elements** Page 323

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- Chassis: RAL 7035

Rated current max. 25 A, with plug-in cable outlet

				
Rated current max. A	Packs of	25	25	Page
Rated operating voltage V, ~		690, 3~	690, 3~	
Number of poles		3-pole	3-pole	
Connection of round conductors mm^2		1.5 - 4	1.5 - 4	
With support frame mm		45 x 170	55 x 170	
Support rails Qty/height mm		2 / 10	2 / 10	
Support rail version		TS 45D TS 45D-V	TS 55D TS 55D-V	
Width mm		45	55	
Height mm		208	208	
For bar systems with centre-to-centre spacing mm		60	60	
For bar thickness mm		5/10	5/10	
Model No.	1 pc(s).	**9340.910**	**9340.930**	
Product-specific scope of supply				
Connector with connection facility for 3 main contacts (1.5 – 4 mm^2)		■	■	
Accessories				
Support rail 35 x 10 mm		see page	see page	352
Cable set		see page	see page	354

Busbar system Page 300 **Connection adaptors** Page 304 **Fuse elements** Page 323

For mounting of switchgear with external power supply.

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- Chassis: RAL 7035

without contact system

Number of poles	Packs of	–	–	–	Page
With support frame mm		45 x 170	55 x 237	–	
With support frame support		–	■	–	
With PinBlock		■	–	–	
Support rails Qty/height mm		–	1 / 10	2 / 10	
Support rail version		–	TS 55D-V	TS 45D	
Width mm		45	55	45	
Height mm		208	272	208	
Approvals		UL	UL	UL	
For bar systems with centre-to-centre spacing mm		60	60	60	
For bar thickness mm		5/10	5/10	5/10	
Model No.	1 pc(s).	**9340.260**	**9340.270**	**9340.300**	
Accessories					
Support rail 35 x 10 mm		see page	see page	see page	352
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	353
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	354

Circuit-breaker component adaptors

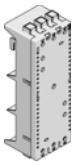
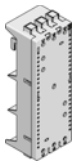
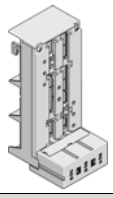
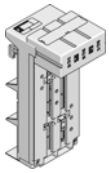
Busbar system Page 300 **Connection adaptors** Page 304 **Fuse elements** Page 323

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

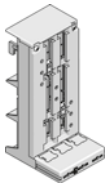
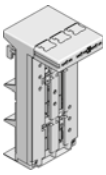
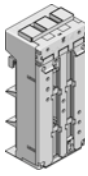
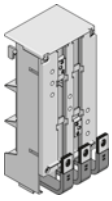
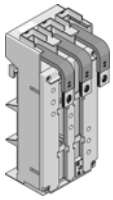
Note:
- Cable outlet: Switch outlet or as outgoing cable from the switchgear
- The technical data may vary for UL applications

Rated current max. 100 – 125 A, 3-pole

						
Rated current max. A	Packs of	100	100	125	125	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top	Bottom	Top	Bottom	
Type of connection		Box terminal	Box terminal	Box terminal	Box terminal	
Connection of round conductors mm²		10 - 35	10 - 35	35 - 120	35 - 120	
Clamping area for laminated copper bars (W x H) mm		10 x 7.8	10 x 7.8	18.5 x 15.5	18.5 x 15.5	
For switchgear make (model)		ABB (MS 495, MS 496, MS 497) Eaton (PKZ2) Schneider Electric (GV3ME80) Siemens (S3)	ABB (MS 495, MS 496, MS 497) Eaton (PKZ2) Schneider Electric (GV3ME80) Siemens (S3)	ABB (S1, S2, T1, T1 UL, T2, T2 UL, XT1, XT2) Allen Bradley (140-CMN) Eaton (NZM1, NZM1 UL, BZM B1) GE (FD160) OEZ (BC160N) Schneider Electric (NS80, NSC100, NSE75, NSE100) Schrack (MC1) Siemens (3RV13 53, 3VT1, 3VA10, 3VA11, 3VA51) Terasaki (E125, S125)	ABB (S1, S2, T1, T1 UL, T2, T2 UL, XT1, XT2) Allen Bradley (140-CMN) Eaton (NZM1, NZM1 UL, BZM B1) GE (FD160) OEZ (BC160N) Schneider Electric (NS80, NSC100, NSE75, NSE100) Schrack (MC1) Siemens (3RV13 53, 3VT1, 3VA10, 3VA11, 3VA51) Terasaki (E125, S125)	
Width mm		72	72	90	90	
Height mm		210	210	225	225	
Approvals		UL	UL	UL	UL	
For bar systems with centre-to-centre spacing mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9342.400**	**9342.410**	**9342.540**	**9342.550**	
Product-specific scope of supply						
Terminal cover		–	–	■	■	
Sliding blocks		–	–	■	■	
Accessories						
Support rail 35 x 15 mm	5 pc(s).	9320.120	9320.120	–	–	353
Connection bracket	3 pc(s).	–	–	9342.570	9342.570	355
Insert strip		–	–	–	–	

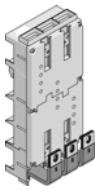
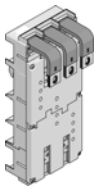
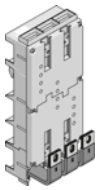
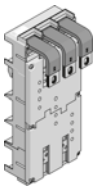
Circuit-breaker component adaptors

Rated current max. 160 – 250 A, 3-pole

							
Rated current max. A	Packs of	160	160	250	250	250	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top	Bottom	Bottom	Top	Bottom	
Type of connection		Box terminal	Box terminal	Box terminal	–	–	
Connection of round conductors mm^2		35 - 120	35 - 120	35 - 120	–	–	
Clamping area for laminated copper bars (W x H) mm		18.5 x 15.5	18.5 x 15.5	18.5 x 15.5	–	–	
For switchgear make (model)		ABB (S1, S2, T1, T2, XT1, XT2) Allen Bradley (140-CMN) Eaton (NZM1, BZM B1) GE (FD160) Legrand (DPX 125, DPX 160) OEZ (BC160N) Schneider Electric (NS80, NSC100) Schrack (MC1) Siemens (3RV13 53, 3VT1, 3VA10, 3VA11) Terasaki (E125, S125)	ABB (S1, S2, T1, T2, XT1, XT2) Allen Bradley (140-CMN) Eaton (NZM1, BZM B1) GE (FD160) Legrand (DPX 125, DPX 160) OEZ (BC160N) Schneider Electric (NS80, NSC100) Schrack (MC1) Siemens (3RV13 53, 3VT1, 3VA10, 3VA11) Terasaki (E125, S125)	ABB (S3, T3, T4/320 A, T3 UL, T4 UL, XT3, XT4) Allen Bradley (140U-J) Eaton (NZM2, NZM2 UL, BZM B2) GE (FE160, FE250, FD160) Legrand (DPX 250) Mitsubishi (NF125-SGW/ HGW, NF160-SGW/ HGW) OEZ (BD250N, BD250S) Schneider Electric (NS(X)100, NS(X)160, NS(X)250, GV7, NSF150, NSF250) Schrack (MC2) Siemens (VL150(X) UL, VL160(X), VL250, VL250 UL, 3RV10 63, 3RV13 63, 3RV13 64, 3VT2, 3VA12/20/21/ 22, 3VA52/61/62) Terasaki (H125, L125, H160, L160, S160, E250, H250, L250)	ABB (S3, T3, T4/320 A, T3 UL, T4 UL, XT3, XT4) Allen Bradley (140U-J) Eaton (NZM2, NZM2 UL, BZM B2) GE (FE160, FE250, FD160) Legrand (DPX 250) Mitsubishi (NF125-SGW/ HGW, NF160-SGW/ HGW) OEZ (BD250N, BD250S) Schneider Electric (NS(X)100, NS(X)160, NS(X)250, GV7, NSF150, NSF250) Schrack (MC2) Siemens (VL150(X) UL, VL160(X), VL250, VL250 UL, 3RV10 63, 3RV13 63, 3RV13 64, 3VT2, 3VA12/20/21/ 22, 3VA52/61/62) Terasaki (H125, L125, H160, L160, S160, E250, H250, L250)	ABB (S3, T3, T4/320 A, T3 UL, T4 UL, XT3, XT4) Allen Bradley (140U-J) Eaton (NZM2, NZM2 UL, BZM B2) GE (FE160, FE250, FD160) Legrand (DPX 250) Mitsubishi (NF125-SGW/ HGW, NF160-SGW/ HGW) OEZ (BD250N, BD250S) Schneider Electric (NS(X)100, NS(X)160, NS(X)250, GV7, NSF150, NSF250) Schrack (MC2) Siemens (VL150(X) UL, VL160(X), VL250, VL250 UL, 3RV10 63, 3RV13 63, 3RV13 64, 3VT2, 3VA12/20/21/ 22, 3VA52/61/62) Terasaki (H125, L125, H160, L160, S160, E250, H250, L250)	
Width mm		90	90	105	105	105	
Height mm		215	215	240	240	240	
Approvals		–	–	UL	UL	UL	
For bar systems with centre-to-centre spacing mm		60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9342.500**	**9342.510**	**9342.610**	**9345.600**	**9345.610**	
Product-specific scope of supply							
Terminal cover		■	■	■	–	–	
Sliding blocks		■	■	■	■	■	
Connection straps		–	–	–	■	■	
Accessories							
Support rail 35 x 15 mm		–	–	–	–	–	
Connection bracket	3 pc(s).	9342.570	9342.570	–	–	–	355
Insert strip		–	–	–	–	–	

Circuit-breaker component adaptors

Rated current max. 400 – 630 A, 3-pole

						
Rated current max. A	Packs of	400	400	630	630	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top	Bottom	Top	Bottom	
Type of connection		–	–	–	–	
Connection of round conductors		–	–	–	–	
Clamping area for laminated copper bars (W x H)		–	–	–	–	
When using the Siemens VL630 switchgear, insert strip 9342.720 is additionally required		–	–	■	■	
For switchgear make (model)		Eaton (NZM3, NZM3 UL/400 A) GE (FG400) Mitsubishi (NF400-SEW/HEW/REW) Schneider Electric (NS(X)400, NSJ400) Schrack (MC3) Siemens (VL400, VL400X UL, VL400 UL, 3VA23, 3VA63) Terasaki (E400, S400, H400, L400)	Eaton (NZM3, NZM3 UL/400 A) GE (FG400) Mitsubishi (NF400-SEW/HEW/REW) Schneider Electric (NS(X)400, NSJ400) Schrack (MC3) Siemens (VL400, VL400X UL, VL400 UL, 3VA23, 3VA63) Terasaki (E400, S400, H400, L400)	ABB (S5, T5, T5 UL) Allen Bradley (140U-L) Eaton (NZM3, NZM3 UL/630 A) GE (FG630) Legrand (DPX 630) Mitsubishi (NF630-SEW/HEW/REW) OEZ (BH630N, BH630S) Schneider Electric (NS(X)630, NSJ600) Schrack (MC3) Siemens (VL630, 3VA24, 3VT3, 3V10 73, 3RV13 73, 3RV13 74, 3VA64) Terasaki (E630, S630)	ABB (S5, T5, T5 UL) Allen Bradley (140U-L) Eaton (NZM3, NZM3 UL/630 A) GE (FG630) Legrand (DPX 630) Mitsubishi (NF630-SEW/HEW/REW) OEZ (BH630N, BH630S) Schneider Electric (NS(X)630, NSJ600) Schrack (MC3) Siemens (VL630, 3VA24, 3VT3, 3V10 73, 3RV13 73, 3RV13 74, 3VA64) Terasaki (E630, S630)	
Width mm		140	140	140	140	
Height mm		345	345	345	345	
Approvals		UL	UL	UL	UL	
For bar systems with centre-to-centre spacing mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9345.720**	**9345.730**	**9345.700**	**9345.710**	
Product-specific scope of supply						
Connection straps		■	■	■	■	
Sliding blocks		■	■	■	■	
Accessories						
Support rail 35 x 15 mm		–	–	–	–	
Connection bracket		–	–	–	–	
Insert strip	4 pc(s).	9342.720	9342.720	9342.720	9342.720	353

Circuit-breaker component adaptors

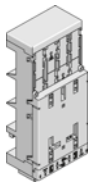
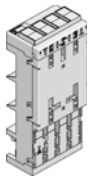
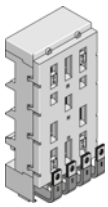
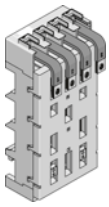
Busbar system Page 300 **Connection adaptors** Page 304

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

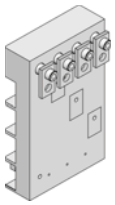
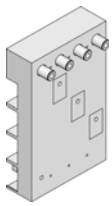
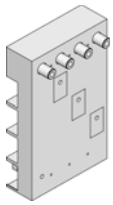
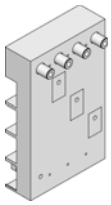
Note:
- Cable outlet: Switch outlet or as outgoing cable from the switchgear
- The technical data may vary for UL applications

Rated current max. 160 – 250 A, 4-pole

						
Rated current max. A	Packs of	160	160	250	250	Page
Rated operating voltage V, ~		690, 4~	690, 4~	690, 4~	690, 4~	
Number of poles		4-pole	4-pole	4-pole	4-pole	
Cable outlet		Top	Bottom	Top	Bottom	
Type of connection		Box terminal	Box terminal	–	–	
Connection of round conductors mm^2		35 - 120	35 - 120	–	–	
Clamping area for laminated copper bars (W x H) mm		18.5 x 15.5	18.5 x 15.5	–	–	
For switchgear make (model)		ABB (T1, T2, XT1, XT2) Eaton (NZM1-4/125 A, BZM E1-4/100 A) Schneider Electric (NSC100) Schrack (MC1) Siemens (3VA10, 3VA11)	ABB (T1, T2, XT1, XT2) Eaton (NZM1-4/125 A, BZM E1-4/100 A) Schneider Electric (NSC100) Schrack (MC1) Siemens (3VA10, 3VA11)	ABB (T3S, XT3) Eaton (NZM2-4/250 A) Schneider Electric (NS(X)100, NS(X)160, NS(X)250) Schrack (MC2) Siemens (VL160X, VL160, VL250, 3RV10 63, 3VA12/20/21/22, 3VA61/62)	ABB (T3S, XT3) Eaton (NZM2-4/250 A) Schneider Electric (NS(X)100, NS(X)160, NS(X)250) Schrack (MC2) Siemens (VL160X, VL160, VL250, 3RV10 63, 3VA12/20/21/22, 3VA61/62)	
Width mm		120	120	140	140	
Height mm		277	277	310	310	
Approvals		UL	UL	–	–	
For bar systems with centre-to-centre spacing mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9342.504**	**9342.514**	**9345.604**	**9345.614**	
Product-specific scope of supply						
Terminal cover		■	■	–	–	
Sliding blocks		■	■	■	■	
Connection straps		–	–	■	■	

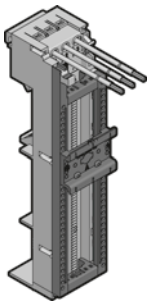
Circuit-breaker component adaptors

Rated current max. 500 A, 4-pole

						
Rated current max. A	Packs of	500	500	500	500	Page
Rated operating voltage V, ~		690, 4~	690, 4~	690, 4~	690, 4~	
Number of poles		4-pole	4-pole	4-pole	4-pole	
Cable outlet		Bottom	Bottom	Bottom	Bottom	
Type of connection		–	–	–	–	
Connection of round conductors		–	–	–	–	
Clamping area for laminated copper bars (W x H)		–	–	–	–	
For switchgear make (model)		ABB (Tmax T5)	Schneider Electric (NS(X)400, NS(X)630)	Eaton (NZM3-4-XKR130)	Siemens (VL400)	
Width mm		185	185	185	185	
Height mm		300	300	300	300	
Approvals		–	–	–	–	
For bar systems with centre-to-centre spacing mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9345.704**	**9345.714**	**9345.724**	**9345.734**	
Product-specific scope of supply						
Copper spacer roll		■	■	■	■	
Connection screws		■	■	■	■	
Contact plates		■	–	–	–	

OM adaptors with connection cables

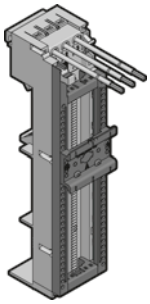
Switchgear assignment



For make/model		ABB													Eaton																
		Circuit-breaker				Starter			Reversing starter			Soft starter			Circuit-breaker						Starter						Reversing starter			Soft starter	
		MS 116/132	MS 325	MS 450/451	MS 495/496/497	MS 116 + AF09, AF12, AF16	MS 132 + AF09, AF12, AF16, AF26, AF30, AF38	MS 450 + A40, A50	MS 116 + AF09, AF12, AF16	MS 132 + AF09, AF12, AF16, AF26, AF30, AF38	MS 450 + A40, A50	MS 116 + PSR3, PSR6, PSR9, PSR12, PSR16, PSR25	MS 325 + PSR25	MS 450 + PSR30	PKZM0	PKZM01	PKZM4	PKE12	PKE32	PKE65	MSC-D + M7 - M15	MSC-D + M17 - M32	PKZM4 + DILM 17-65	MSC - DE ... M7 - M12	MSC - DE ... M17 - M32	PKE 65 + DILM 65	MSC - R ... M7 - M12	MSC - R ... M17 - M32	PKE 65 + DILM 65	PKE 12, PKE 32 + DS7-340	PKZ0 + DS7-340
		Construction width													Construction width																
		45	54	55	70	45	45	70	90	90	140	45	45	55	45	45	55	45	45	55	45	45	55	45	45	55	90	90	110	45	45
Model No.	**Version**	**Required quantity (pieces)**													**Required quantity (pieces)**																
9340.340	OM adaptor 25 A, AWG 12, W = 45 mm	1														1		1	1												
9340.350	OM adaptor 32 A, AWG 10, W = 45 mm					1									1																
9340.370	OM adaptor 25 A, AWG 12, W = 45 mm								1												1						1				
9340.380	OM adaptor 32 A, AWG 10, W = 45 mm																					1						1			
9340.390	OM adaptor 32 A, AWG 10, W = 45 mm						1			1		1	1											1	1					1	1
9340.430	OM adaptor 65 A, AWG 6, W = 55 mm			1	1												1			1											
9340.450	OM adaptor 65 A, AWG 6, W = 55 mm							1			1			1									1			1					
9340.460	OM adaptor 32 A, AWG 10, W = 55 mm		1																												
9340.260	OM support, 45 x 208 mm								1	1																	1	1			
9340.270	OM support, 55 x 272 mm										1																				
9342.860	Support rail TS45D, 35 x 10 mm	1							1																						
9342.870	Support rail TS45D-V, 35 x 10 mm					1																						1			
9340.290	Insert strip, 10 x 208 mm				2			2			3																				
9340.280	Connection pin								3	3	3																3	3			

OM adaptors with connection cables

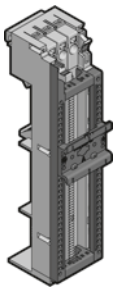
Switchgear assignment



For make/model		Siemens																	Schneider Electric														
		Circuit-breaker					Starter								Reversing starter					Circuit-breaker			Starter							Reversing starter					Soft starter
		3RV10 11... (S00)	3RV10 21... (S0)	3RV10 31... (S2)	3RV20 11... (S00) screw terminal	3RV20 21... (S0) screw terminal up to 40 A	3RA11 10... (S00)	3RA11 20... (S0)	3RA11 30... (S2)	3RA21 10... (S00) screw terminal	3RV20 11...(S00 + S0) spring terminal block	3RA21 20... (S00/S0) screw terminal	3RA21 20... (S0) screw terminal	3RA61 20...	3RA12 10... (S00 + S00)	3RA11 20... (S0 + S0)	3RV10 31.. + 3RT103... (S2 + S2)	3RA22 10... (S00) screw terminal	3RA22 20... (S0) screw terminal	GV2 - ME (screw terminal and spring terminal block)	GV2 - P	GV2 - RT, LE10, L10	GV3 BIS 65A	GV2 P + LC1D	GV2 ME + LC1D	GV2 - DM102 + LC1D/LC1K	GV2 - DP + LC1D/LC1K	GV3 + LC1D65	LUB 12	LUB 32	GV2 P + LC2D (AC)	GV2 ME + LC2D/LC2K (AC)	GV2 DM + LC2D/LC2K	GV2 DP + LC2D/LC2K	GV2 DP + LC2D/LC2K	GV2 ME + ATS
		Construction width																	Construction width																
		45	45	55	45	45	45	45	55	45	45	45	45	45	90	100	120	90	90	45	55	45	55	45	45	45	45	55	45	45	90	90	90	90	90	45
ModeNo.	**Version**	**Required quantity (pieces)**																	**Required quantity (pieces)**																
9340.760	OM adaptor 16 A, AWG 12, W = 45 mm										1																								
9340.340	OM adaptor 25 A, AWG 12, W = 45 mm	1	1		1														1		1							1							
9340.350	OM adaptor 32 A, AWG 10, W = 45 mm											1	1					1					1	1	1	1			1	1	1	1	1	1	
9340.770	OM adaptor 32 A, AWG 10, W = 45 mm													1																					
9340.370	OM adaptor 25 A, AWG 12, W = 45 mm						1	1		1					1	1		1																	
9340.390	OM adaptor 25 A, AWG 12, W = 45 mm																																		1
9340.430	OM adaptor 65 A, AWG 6, W = 55 mm			1																1		1													
9340.450	OM adaptor 65 A, AWG 6, W = 55 mm								1								1										1								
9340.720	OM adaptor 40 A, AWG 8, W = 55 mm					1																													
9340.260	OM support, 45 x 208 mm														1	1		1													1	1	1	1	1	
9340.270	OM support, 55 x 272 mm																1		1																
9340.290	Insert strip, 10 x 208 mm															1	1																		
9340.280	Connection pin														3	3	3	3	3												3	3	3	3	3	
9342.800	PinBlock, W = 45 mm											1	1											1	1	1	1				2	2	2	2	2	
9342.820	PinBlock PLUS													1										1	1	1	1									

OM adaptors with spring terminal blocks

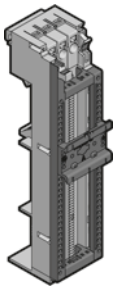
Switchgear assignment



For make/model		ABB													Eaton																	
		Circuit-breaker				Starter			Reversing starter			Soft starter			Circuit-breaker						Starter						Reversing starter			Soft starter		
		MS 116/132	MS 325	MS 450/451	MS 495/496/497	MS 116 + AF09, AF12, AF16	MS 132 + AF09, AF12, AF16, AF26, AF30, AF38	MS 450 + A40, A50	MS 116 + AF09, AF12, AF16	MS 132 + AF09, AF12, AF16, AF26, AF30, AF38	MS 450 + A40, A50	MS 116 + PSR3, PSR6, PSR9, PSR12, PSR16, PSR25	MS 325 + PSR25	MS 450 + PSR30	PKZM0	PKZM01	PKZM4	PKE12	PKE32	PKE65	MSC-D + M7 - M15	MSC-D + M17 - M32	PKZM4 + DILM 17-65	MSC - DE ... M7 - M12	MSC - DE ... M17 - M32	PKE 65 + DILM 65	MSC - R ... M7 - M12	MSC - R ... M17 - M32	PKE 65 + DILM 65	PKE 12 + DS7-340	PKE 32 + DS7-340	PKZ0 + DS7-340
		Construction width													Construction width																	
		45	54	55	70	45	45	70	90	90	140	45	45	55	45	45	55	45	45	55	45	45	55	45	45	55	90	90	110	45	45	45
Model No.	**Version**	**Required quantity (pieces)**													**Required quantity (pieces)**																	
9340.530	OM adaptor 32 A, 1.5 - 6 mm², W = 45 mm	1				1									1	1		1	1													
9340.550	OM adaptor 32 A, 1.5 - 6 mm², W = 45 mm								1												1	1					1	1				
9340.560	OM adaptor 32 A, 1.5 - 6 mm², W = 45 mm						1			1		1	1											1	1					1	1	1
9340.660	OM adaptor 32 A, 1.5 - 6 mm², W = 55 mm		1																													
9340.630	OM adaptor 65 A, 2.5 - 16 mm², W = 55 mm			1	1												1			1												
9340.650	OM adaptor 65 A, 2.5 - 16 mm², W = 55 mm							1			1			1									1			1			1			
9340.260	OM support, 45 x 208 mm								1	1																	1	1				
9340.270	OM support, 55 x 272 mm										1																		1			
9340.290	Insert strip, 10 x 208 mm				2			2			3																					
9340.280	Connection pin								3	3	3																3	3	3			
9340.860	Cable set AWG 12	3				3			3			3	3					3			3			3			3			3		
9340.870	Cable set AWG 10		3				3			3					3	3			3			3			3			3			3	3
9340.890	Cable set AWG 6			3	3			3			3			3			3			3			3			3			3			
9342.860	Support rail TS45D, 35 x 10 mm	1																														
9342.930	Support rail TS55D, 35 x 10 mm								1																							

OM adaptors with spring terminal blocks

Switchgear assignment



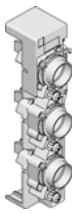
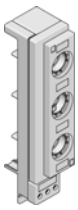
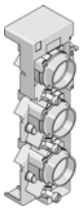
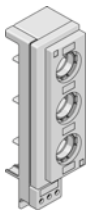
For make/model		Siemens																Schneider Electric													
		Circuit-breaker					Starter						Reversing starter					Circuit-breaker				Starter							Reversing starter				Soft starter
		3RV10 11... (S00)	3RV10 21... (S0)	3RV10 31... (S2)	3RV20 11... (S00) screw terminal	3RV20 21... (S0) screw terminal up to 40 A	3RA11 10... (S00)	3RA11 20... (S0)	3RA11 30... (S2)	3RA21 10... (S00) screw terminal	3RA21 20... (S00/S0) screw terminal	3RA21 20... (S0) screw terminal	3RA12 10... (S00 + S00)	3RA11 20... (S0 + S0)	3RV10 31.. + 3RT103... (S2 + S2)	3RA22 10... (S00) screw terminal	3RA22 20... (S0) screw terminal	GV2 - ME (screw terminal and spring terminal block)	GV2 - P	GV2 - RT, LE10, L10	GV3 BIS 65A	GV2 P + LC1D	GV2 ME + LC1D	GV2 - DM102 + LC1D/LC1K	GV2 - DP + LC1D/LC1K	GV3 + LC1D65	LUB 12	LUB 32	GV2 P + LC2D (AC)	GV2 ME + LC2D/LC2K (AC)	GV2 DM + LC2D/LC2K	GV2 DP + LC2D/LC2K	GV2 ME + ATS
		Construction width																Construction width															
		45	45	55	45	45	45	45	55	45	45	45	90	100	120	90	90	45	55	45	55	45	45	45	45	55	45	45	90	90	90	90	45
Model No.	**Version**	**Required quantity (pieces)**																**Required quantity (pieces)**															
9340.530	OM adaptor 32 A, 1.5 - 6 mm², W = 45 mm	1	1		1	1												1		1							1	1					
9340.550	OM adaptor 32 A, 1.5 - 6 mm², W = 45 mm						1	1		1	1	1	1	1		1	1					1	1	1	1				1	1	1	1	
9340.560	OM adaptor 32 A, 1.5 - 6 mm², W = 45 mm																																1
9340.630	OM adaptor 65 A, 2.5 - 16 mm², W = 55 mm			1															1		1												
9340.650	OM adaptor 65 A, 2.5 - 16 mm², W = 55 mm								1						1											1							
9340.260	OM support, 45 x 208 mm												1	1		1	1												1				
9340.270	OM support, 55 x 272 mm														1																		
9340.290	Insert strip, 10 x 208 mm													1																			
9340.280	Connection pin												3	3	3														3	3	3	3	
9340.860	Cable set AWG 12	3			3		3			3	3	3	3			3											3						
9340.870	Cable set AWG 10		3					3						3			3	3		3		3	3	3	3			3	3	3	3	3	3
9340.880	Cable set AWG 8					3																											
9340.890	Cable set AWG 6			3					3						3				3		3					3							
9342.820	PinBlock PLUS																					1			1				1	1	1	1	

Busbar system Page 300 **Connection adaptors** Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314

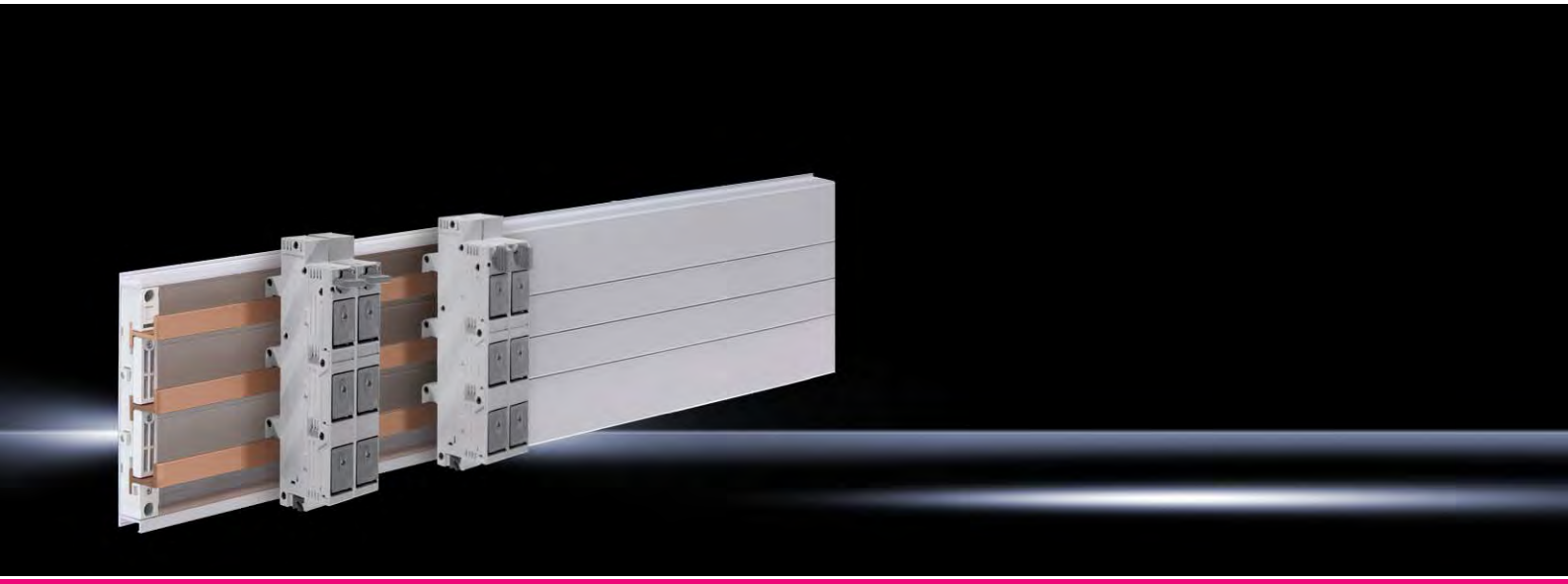
Material:
- Bus-mounting fuse base: Fibreglass-reinforced, thermo-plastic polyester (PBT)
- Contact hazard protection: Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Note:
- For the use of fuse inserts to EN 60 269-3 (DIN VDE 0636-3)

								
Design		–	Easy Connect	–	Easy Connect	–	Easy Connect	Page
Fuse inserts		D 02-E 18 (adaptor sleeve)	D 02-E 18 (adaptor sleeve)	D II-E 27 (adaptor screw)	D II-E 27 (adaptor screw)	D III-E 33 (adaptor screw)	D III-E 33 (adaptor screw)	
Rated current max. A		63	63	25	25	63	63	
Rated operating voltage V, ~		400, 3~ 400 (DC)	400, 3~ 400 (DC)	500, 3~ 500 (DC)	500, 3~ 500 (DC)	690, 3~ 690 (DC)	690, 3~ 690 (DC)	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	
Type of connection		Box terminal	Box terminal	Box terminal	Box terminal	Box terminal	Box terminal	
Connection of round conductors mm^2		1.5 - 25	1.5 - 16	1.5 - 16	1.5 - 16	1.5 - 25	1.5 - 16	
Width mm		27	41	42	56	57	71	
Height mm		209	251	209	251	209	251	
For bar systems with centre-to-centre spacing mm		60	60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	5/10	
Model No.		**3418.010**	**3418.040**	**3427.010**	**3427.040**	**3433.010**	**3433.040**	
	Packs of	10 pc(s).	5 pc(s).	10 pc(s).	5 pc(s).	10 pc(s).	5 pc(s).	
Product-specific scope of supply								
Pre-configured element ready for connection including cover plate, contact hazard protection and exterior connection clamps		–	■	–	■	–	■	
Also required								
Contact hazard protection cover plate	10 pc(s).	3418.020	–	3427.020	–	3433.020	–	356
Accessories								
Connection space extender	10 pc(s).	3418.030	–	3427.030	–	3433.030	–	356
Cover, side	10 pc(s).	3093.010	–	3093.020	–	3093.020	–	356

Bus-mounting fuse base D-Switch



Busbar system Page 300 **Connection adaptors** Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- Chassis: RAL 7035
- Fuse holder: RAL 7001

Supply includes:
- Retaining springs for D 01 and 10 x 38 mm fuses

Basis of test:
- IEC/DIN EN 60 947-3

Note:
- For the use of fuse inserts to EN 60 269-3 (DIN VDE 0636-3)
- With integral visual fuse monitoring via flashing indicator and operating status display as well as cable routing for conductors up to 6 mm²

Fuse inserts	Packs of	D 01 (with retaining spring) D 02 (with Neozed adaptor sleeve) 10 x 38 (with retaining spring)	Page
Rated operating current max. A		63	
Rated operating voltage V, ~		400, 3~	
Number of poles		3-pole	
Voltage, indicator light V		100 - 400	
Type of connection		Box terminal	
Connection of round conductors mm²		1.5 - 25	
Width mm		27	
Height mm		226	
For bar systems with centre-to-centre spacing mm		60	
For bar thickness mm		5/10	
Model No.	3 pc(s).	**9340.950**	
Accessories			
Wiring duct	10 pc(s).	9340.905	356

NH fuse-switch-disconnectors, size 000

Busbar system Page 300 **Connection adaptors** Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314

Material:
- Fibreglass-reinforced polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Silver-plated hard copper

Colour:
- Chassis: RAL 9011
- Cover: RAL 7035

Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Size 000, for mounting plate assembly

Size	Packs of	000	Page
Rated operating current max. A		100	
Rated operating voltage V, ~		690, 3~	
Number of poles		3-pole	
Cable outlet		Top/bottom	
Type of connection		Box terminal	
Connection of round conductors mm^2		1.5 - 50	
Clamping area for laminated copper bars (W x H) mm		10 x 10	
Width mm		89	
Height mm		141.5	
For mounting plate assembly		■	
Model No.	1 pc(s).	**3431.000**	
Accessories			
Micro-switch	5 pc(s).	3071.000	358

NH fuse-switch-disconnectors, size 000

Busbar system Page 300 **Connection adaptors** Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314

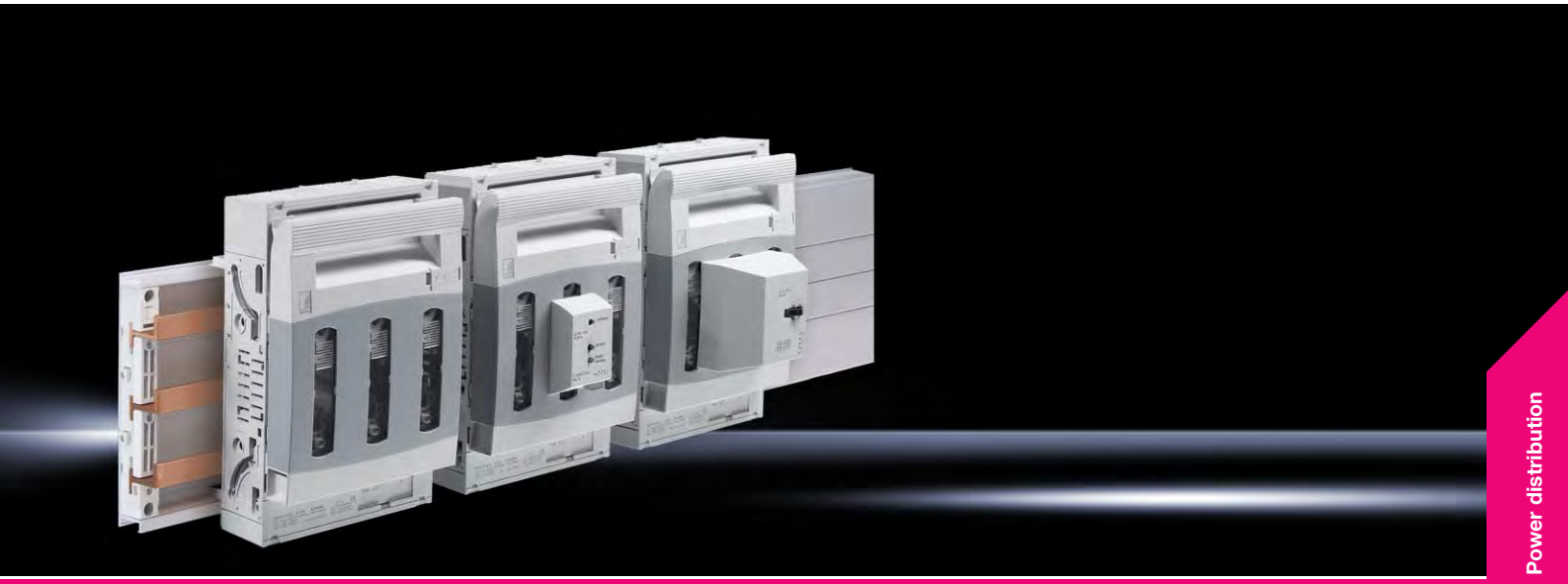
Material:
- Fibreglass-reinforced polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Silver-plated hard copper

Colour:
- Chassis: RAL 7035
- Cover: RAL 7001

Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Size 000

Size	Packs of	000	000	000	Page
Rated operating current max. A		100	100	100	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	
Cable outlet		Top	Bottom	Bottom	
Type of connection		Box terminal	Box terminal	Box terminal	
Connection of round conductors mm^2		2.5 - 50	2.5 - 50	2.5 - 50	
Width mm		53	53	53	
Height mm		213	213	213	
With electronic fuse monitoring		–	–	■	
For bar systems with centre-to-centre spacing mm		60	60	60	
For bar thickness mm		5/10	5/10	5/10	
Model No.	1 pc(s).	**3431.020**	**3431.030**	**3431.035**	
Accessories					
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	358



Busbar system Page 300 **Connection adaptors** Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Electrolytic copper, silver-plated

Colour:
- Chassis: RAL 7035
- Cover: RAL 7035/7001

Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Note:
- The technical data may vary for UR applications. Applications to UR only in conjunction with "Special Purpose Fuses".

Size 00

Size	Packs of	00	00	00	00	Page
Rated operating current max. A		160	160	160	160	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	Screw M8	Box terminal	Screw M8	
Connection of round conductors mm^2		4 - 95	10 - 95	4 - 95	10 - 95	
Connection of sector-shaped conductors		–	–	–	–	
Clamping area for laminated copper bars (W x H) mm		13 x 13	20 x 5	13 x 13	20 x 5	
Width mm		106	106	106	106	
Height mm		194	194	194	194	
Approvals		UR	UR	UR	UR	
For mounting plate assembly		–	–	■	■	
For bar systems with centre-to-centre spacing mm		60	60	–	–	
For bar thickness mm		5/10	5/10	–	–	
Model No.	1 pc(s).	**9343.000**	**9343.010**	**9344.000**	**9344.010**	
Accessories						
Box terminal		–	–	–	–	
Connection space cover	2 pc(s).	9344.520	9344.520	9344.520	9344.520	357
Arcing chamber		–	–	–	–	
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	3071.000	358
Laminated copper bar		see page	see page	see page	see page	346
Smart monitoring system	1 pc(s).	9343.070	–	–	–	333

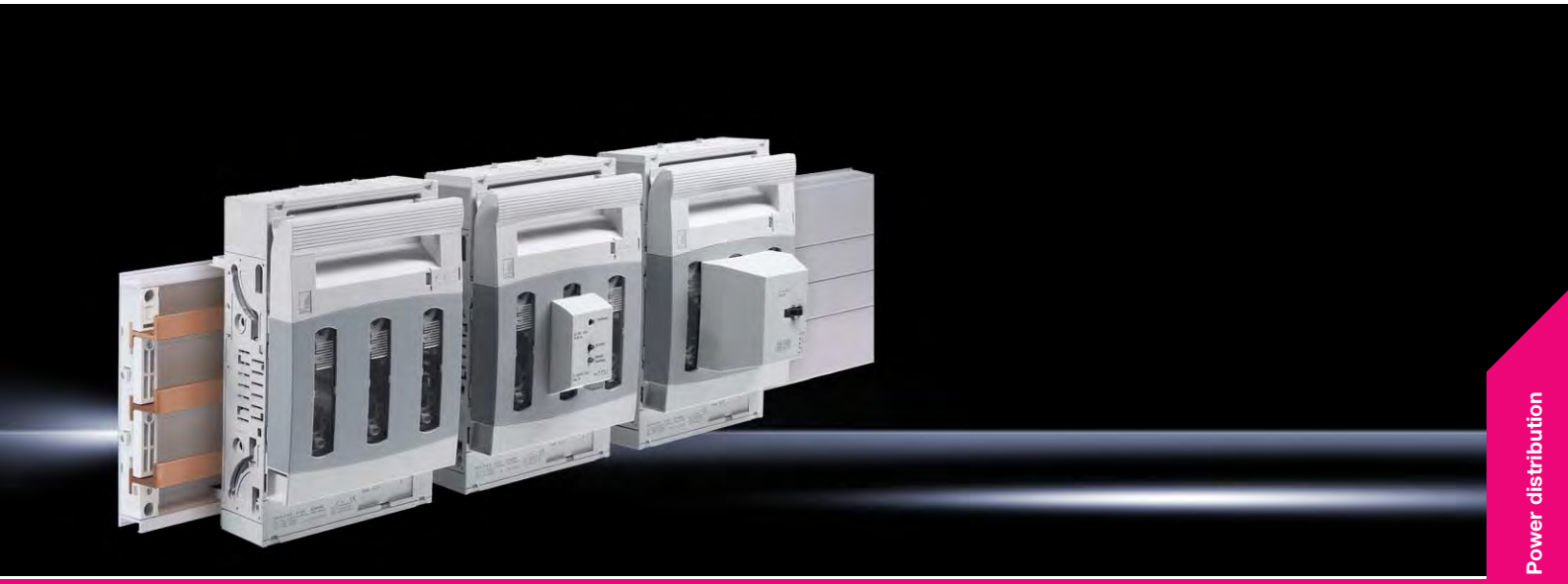
NH fuse-switch-disconnectors, size 00 to 3

Size 1

Size	Packs of	1	1	1	1	Page
Rated operating current max. A		250	250	250	250	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	Screw M10	Box terminal	Screw M10	
Connection of round conductors mm^2		35 - 150	10 - 150	35 - 150	10 - 150	
Connection of sector-shaped conductors mm^2		50 - 150	–	50 - 150	–	
Clamping area for laminated copper bars (W x H) mm		20 x 3 - 14	32 x 10	20 x 3 - 14	32 x 10	
Width mm		184	184	184	184	
Height mm		298	298	298	298	
Approvals		UR	UR	UR	UR	
For mounting plate assembly		–	–	■	■	
For bar systems with centre-to-centre spacing mm		60	60	–	–	
For bar thickness mm		5/10	5/10	–	–	
Model No.	1 pc(s).	**9343.100**	**9343.110**	**9344.100**	**9344.110**	
Accessories						
Box terminal	3 pc(s).	–	9344.610	–	9344.610	357
Connection space cover	2 pc(s).	9344.530	9344.530	9344.530	9344.530	357
Arcing chamber	3 pc(s).	9344.680	9344.680	9344.680	9344.680	357
Micro-switch	2 pc(s).	9344.510	9344.510	9344.510	9344.510	358
Laminated copper bar		see page	see page	see page	see page	346
Smart monitoring system	1 pc(s).	9343.170	–	–	–	333

Size 2 – 3

Size	Packs of	2	2	2	3	3	3	Page
Rated operating current max. A		400	400	400	630	630	630	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	Screw M10	Screw M10	Box terminal	Screw M10	Screw M10	
Connection of round conductors mm^2		95 - 300	10 - 240	10 - 240	95 - 300	10 - 300	10 - 300	
Connection of sector-shaped conductors mm^2		120 - 300	–	–	120 - 300	–	–	
Clamping area for laminated copper bars (W x H) mm		32 x 10 - 20	50 x 10	50 x 10	32 x 10 - 20	50 x 10	50 x 10	
Width mm		210	210	210	250	250	250	
Height mm		298	298	298	298	298	298	
Approvals		UR	UR	UR	UR	UR	UR	
For mounting plate assembly		–	–	■	–	–	■	
For bar systems with centre-to-centre spacing mm		60	60	–	60	60	–	
For bar thickness mm		5/10	5/10	–	5/10	5/10	–	
Model No.	1 pc(s).	**9343.200**	**9343.210**	**9344.210**	**9343.300**	**9343.310**	**9344.310**	
Accessories								
Box terminal	3 pc(s).	–	9344.620	9344.620	–	9344.620	9344.620	357
Connection space cover	2 pc(s).	9344.540	9344.540	9344.540	9344.550	9344.550	9344.550	357
Arcing chamber	3 pc(s).	9344.680	9344.680	9344.680	9344.680	9344.680	9344.680	357
Micro-switch	2 pc(s).	9344.510	9344.510	9344.510	9344.510	9344.510	9344.510	358
Laminated copper bar		see page	see page	see page	see page	see page	see page	346
Smart monitoring system	1 pc(s).	9343.270	–	–	9343.370	–	–	333



Busbar system Page 300 **Connection adaptors** Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Electrolytic copper, silver-plated

Colour:
- Chassis: RAL 7035
- Cover: RAL 7035/7001

Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Size 00, with electronic fuse monitoring

Size	Packs of	00	00	00	00	Page
Rated operating current max. A		160	160	160	160	
Rated operating voltage V, ~		400 - 690, 3~	400 - 690, 3~	400 - 690, 3~	400 - 690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	Screw M8	Box terminal	Screw M8	
Connection of round conductors mm^2		4 - 95	10 - 95	4 - 95	10 - 95	
Connection of sector-shaped conductors		–	–	–	–	
Clamping area for laminated copper bars (W x H) mm		13 x 13	20 x 5	13 x 13	20 x 5	
Width mm		106	106	106	106	
Height mm		194	194	194	194	
For mounting plate assembly		–	–	■	■	
For bar systems with centre-to-centre spacing mm		60	60	–	–	
For bar thickness mm		5/10	5/10	–	–	
Model No.	1 pc(s).	**9343.020**	**9343.030**	**9344.020**	**9344.030**	
Accessories						
Box terminal		–	–	–	–	
Connection space cover	2 pc(s).	9344.520	9344.520	9344.520	9344.520	357
Arcing chamber		–	–	–	–	
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	3071.000	358
Laminated copper bar		see page	see page	see page	see page	346
Smart monitoring system	1 pc(s).	9343.070	–	–	–	333

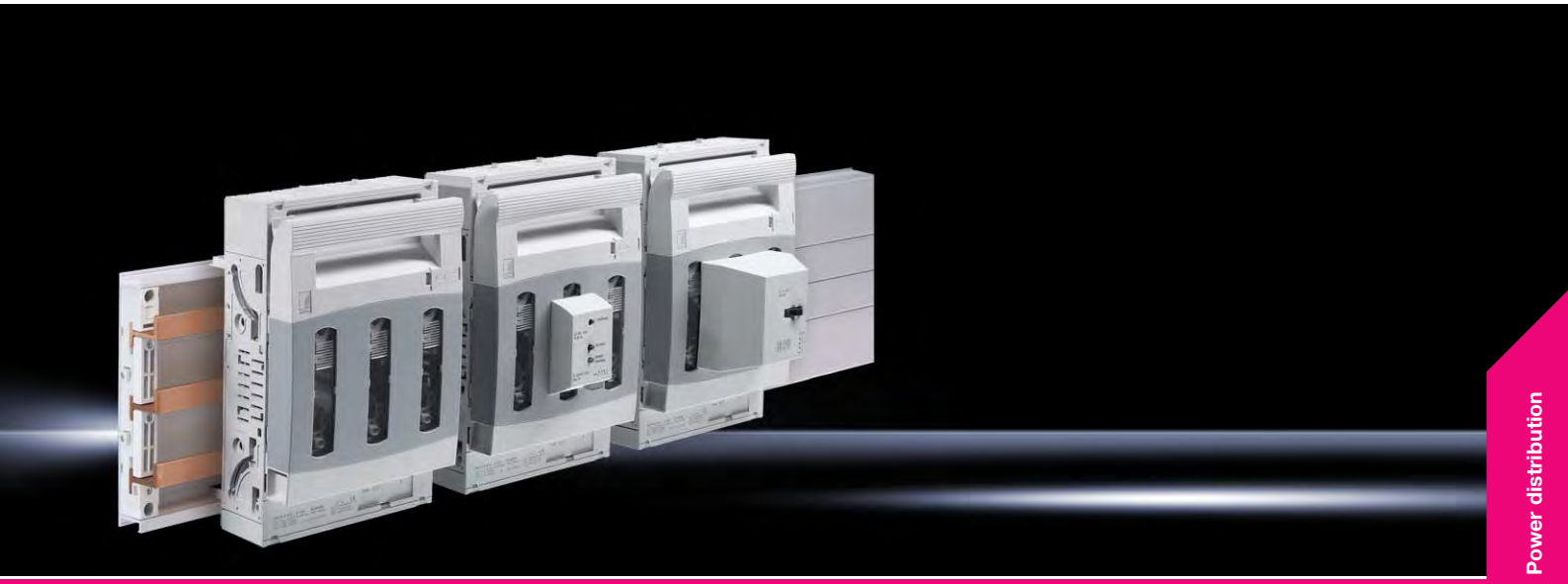
NH fuse-switch-disconnectors, size 00 to 3

Size 1, with electronic fuse monitoring

Size	Packs of	1	1	1	Page
Rated operating current max. A		250	250	250	
Rated operating voltage V, ~		400 - 690, 3~	400 - 690, 3~	400 - 690, 3~	
Number of poles		3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	Screw M10	Screw M10	
Connection of round conductors mm^2		35 - 150	10 - 150	10 - 150	
Connection of sector-shaped conductors mm^2		50 - 150	–	–	
Clamping area for laminated copper bars (W x H) mm		20 x 3 - 14	32 x 10	32 x 10	
Width mm		184	184	184	
Height mm		298	298	298	
For mounting plate assembly		–	–	■	
For bar systems with centre-to-centre spacing mm		60	60	–	
For bar thickness mm		5/10	5/10	–	
Model No.	1 pc(s).	**9343.120**	**9343.130**	**9344.130**	
Accessories					
Box terminal	3 pc(s).	–	9344.610	9344.610	357
Connection space cover	2 pc(s).	9344.530	9344.530	9344.530	357
Arcing chamber	3 pc(s).	9344.680	9344.680	9344.680	357
Micro-switch	2 pc(s).	9344.510	9344.510	9344.510	358
Laminated copper bar		see page	see page	see page	346
Smart monitoring system	1 pc(s).	9343.170	–	–	333

Size 2 – 3, with electronic fuse monitoring

Size	Packs of	2	2	3	3	Page
Rated operating current max. A		400	400	630	630	
Rated operating voltage V, ~		400 - 690, 3~	400 - 690, 3~	400 - 690, 3~	400 - 690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Screw M10	Screw M10	Screw M10	Screw M10	
Connection of round conductors mm^2		10 - 240	10 - 240	10 - 300	10 - 300	
Connection of sector-shaped conductors		–	–	–	–	
Clamping area for laminated copper bars (W x H) mm		50 x 10	50 x 10	50 x 10	50 x 10	
Width mm		210	210	250	250	
Height mm		298	298	298	298	
For mounting plate assembly		–	■	–	■	
For bar systems with centre-to-centre spacing mm		60	–	60	–	
For bar thickness mm		5/10	–	5/10	–	
Model No.	1 pc(s).	**9343.230**	**9344.230**	**9343.330**	**9344.330**	
Accessories						
Box terminal	3 pc(s).	9344.620	9344.620	9344.620	9344.620	357
Connection space cover	2 pc(s).	9344.540	9344.540	9344.550	9344.550	357
Arcing chamber	3 pc(s).	9344.680	9344.680	9344.680	9344.680	357
Micro-switch	2 pc(s).	9344.510	9344.510	9344.510	9344.510	358
Laminated copper bar		see page	see page	see page	see page	346
Smart monitoring system		–	–	–	–	



Busbar system Page 300 **Connection adaptors** Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Electrolytic copper, silver-plated

Colour:
- Chassis: RAL 7035
- Cover: RAL 7035/7001

Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Size 00, with electromechanical fuse monitoring

Size	Packs of	00	00	00	00	Page
Rated operating current max. A		160	160	160	160	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	Screw M8	Box terminal	Screw M8	
Connection of round conductors mm^2		4 - 95	10 - 95	4 - 95	10 - 95	
Connection of sector-shaped conductors		–	–	–	–	
Clamping area for laminated copper bars (W x H) mm		13 x 13	20 x 5	13 x 13	20 x 5	
Width mm		106	106	106	106	
Height mm		194	194	194	194	
For mounting plate assembly		–	–	■	■	
For bar systems with centre-to-centre spacing mm		60	60	–	–	
For bar thickness mm		5/10	5/10	–	–	
Model No.	1 pc(s).	**9343.040**	**9343.050**	**9344.040**	**9344.050**	
Accessories						
Box terminal		–	–	–	–	
Connection space cover	2 pc(s).	9344.520	9344.520	9344.520	9344.520	357
Arcing chamber		–	–	–	–	
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	3071.000	358
Laminated copper bar		see page	see page	see page	see page	346
Smart monitoring system	1 pc(s).	9343.070	–	–	–	333

NH fuse-switch-disconnectors, size 00 to 3

Size 1, with electromechanical fuse monitoring

Size	Packs of	1	1	1	Page
Rated operating current max. A		250	250	250	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	Screw M10	Screw M10	
Connection of round conductors mm^2		35 - 150	10 - 150	10 - 150	
Connection of sector-shaped conductors mm^2		50 - 150	–	–	
Clamping area for laminated copper bars (W x H) mm		20 x 3 - 14	32 x 10	32 x 10	
Width mm		184	184	184	
Height mm		298	298	298	
For mounting plate assembly		–	–	■	
For bar systems with centre-to-centre spacing mm		60	60	–	
For bar thickness mm		5/10	5/10	–	
Model No.	1 pc(s).	**9343.140**	**9343.150**	**9344.150**	
Accessories					
Box terminal	3 pc(s).	–	9344.610	9344.610	357
Connection space cover	2 pc(s).	9344.530	9344.530	9344.530	357
Arcing chamber	3 pc(s).	9344.680	9344.680	9344.680	357
Micro-switch	2 pc(s).	9344.510	9344.510	9344.510	358
Laminated copper bar		see page	see page	see page	346
Smart monitoring system	1 pc(s).	9343.170	–	–	333

Size 2 – 3, with electromechanical fuse monitoring

Size	Packs of	2	2	3	3	Page
Rated operating current max. A		400	400	630	630	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Screw M10	Screw M10	Screw M10	Screw M10	
Connection of round conductors mm^2		10 - 240	10 - 240	10 - 300	10 - 300	
Connection of sector-shaped conductors		–	–	–	–	
Clamping area for laminated copper bars (W x H) mm		50 x 10	50 x 10	50 x 10	50 x 10	
Width mm		210	210	250	250	
Height mm		298	298	298	298	
For mounting plate assembly		–	■	–	■	
For bar systems with centre-to-centre spacing mm		60	–	60	–	
For bar thickness mm		5/10	–	5/10	–	
Model No.	1 pc(s).	**9343.250**	**9344.250**	**9343.350**	**9344.350**	
Accessories						
Box terminal	3 pc(s).	9344.620	9344.620	9344.620	9344.620	357
Connection space cover	2 pc(s).	9344.540	9344.540	9344.550	9344.550	357
Arcing chamber	3 pc(s).	9344.680	9344.680	9344.680	9344.680	357
Micro-switch	2 pc(s).	9344.510	9344.510	9344.510	9344.510	358
Laminated copper bar		see page	see page	see page	see page	346
Smart monitoring system		–	–	–	–	

NH fuse-switch disconnectors Page 325

Compact measurement unit consisting of measurement data acquisition unit, evaluation electronics, communication module, measurement power supply and flash data memory.

Functions:
- Continuous measurement of energy-related data
- Data logging in CSV format (Excel)
- Individual limit monitoring and alarm function
- May be integrated into the CMC III monitoring system
- Automatic address allocation via CAN bus

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Supply includes:
- NH measurement module
- Connector 2 x 2.5 mm² with preassembled bridge
- USB cable (mini-B connector on micro-B jack)

NH measurement module for NH fuse-switch disconnectors

For size	Packs of	00	1	2	3	Page
To fit Model No.		9343.000/ 9343.020/ 9343.040	9343.100/ 9343.120/ 9343.140	9343.200	9343.300	
Rated operating current max. A		150	250	400	600	
Rated operating voltage V, ~		400, 3~	400, 3~	400, 3~	400, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Bottom	Bottom	Bottom	Bottom	
Type of connection		Box terminal	Box terminal	Box terminal	Box terminal	
Connection of round conductors mm²		4 - 95	35 - 150	95 - 300	95 - 300	
Connection of sector-shaped conductors mm²		–	50 - 150	120 - 300	120 - 300	
Clamping area for laminated copper bars (W x H) mm		13 x 13	20 x 3 - 14	32 x 10 - 20	32 x 10 - 20	
Width mm		102	170	185	214	
Height mm		108	123	123	123	
Depth mm		68	92	107	107	
Precision class measurement output (voltage/current/power)		0.2 / 1.5 / 2	0.2 / 1.5 / 2	0.2 / 1.5 / 2	0.2 / 1.5 / 2	
Interfaces		2 x CAN bus (RJ45) 2 x Modbus RTU (RJ45) 1 x USB	2 x CAN bus (RJ45) 2 x Modbus RTU (RJ45) 1 x USB	2 x CAN bus (RJ45) 2 x Modbus RTU (RJ45) 1 x USB	2 x CAN bus (RJ45) 2 x Modbus RTU (RJ45) 1 x USB	
Model No.	1 pc(s).	**9343.070**	**9343.170**	**9343.270**	**9343.370**	

Accessories

LCD display

for monitoring

Functions:
- Illuminated display with more than 50 measurement parameters
- Intuitive configuration of alarm and limit values
- Voltage supply for display via pluggable RJ12 patch cable

Material:
- Polyphenylene ether (PPE)

Colour:
- RAL 9005

Protection category IP to IEC 60 529:
- IP 51 (front)
- IP 41 (enclosure)

Supply includes:
- LCD display
- Modbus RTU cable (RJ12), length: 2 m

Interfaces	1 x Modbus RTU (RJ12)
Operating temperature range	-5 °C...+55 °C
Storage temperature range	-25 °C...+70 °C
Operating humidity range %	5 - 95
Width mm	96
Height mm	96
Depth mm	46
Packs of	1 pc(s).
Model No.	**9343.410**

Also required:

- Power pack, see page 334

Power pack

for LCD display

For mounting on support rails to EN 60 715, 7.5 mm high.

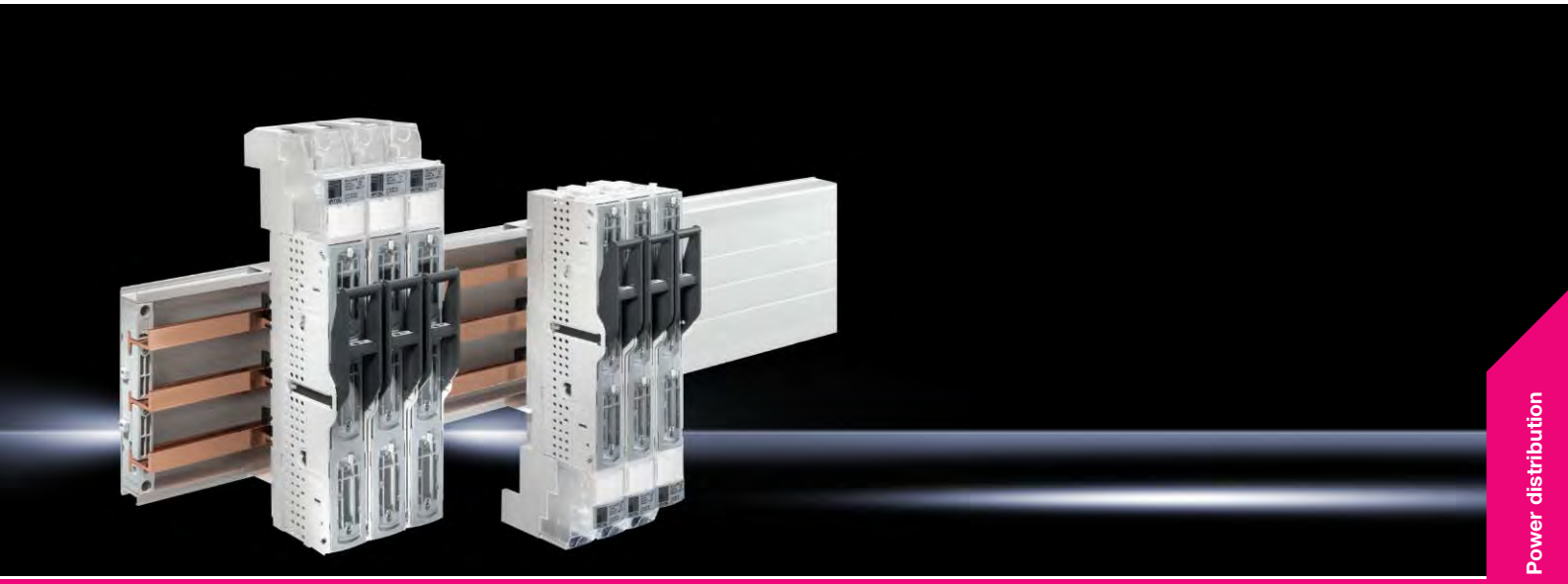
Material:
- Polycarbonate
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 9005

Protection category IP to IEC 60 529:
- IP 20

Supply includes:
- Power pack
- Connector 2 x 2.5 mm^2

Interfaces	1 x Modbus RTU (RJ12) 2 x Modbus RTU (RJ45)
Operating temperature range	-5 °C...+55 °C
Storage temperature range	-25 °C...+70 °C
Operating humidity range %	5 - 95
Width mm	71
Height mm	91
Depth mm	61
Rated operating voltage V, Hz	85 - 265 (AC/DC), 50/60
Output current (max.) A	0.42
Output voltage V (DC)	24
Packs of	1 pc(s).
Model No.	**9343.400**



Busbar system Page 300 **Connection adaptors** Page 304 **NH slimline fuse-switch disconnectors 185 mm** Page 374

Material:
- Fibreglass-reinforced polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Silver-plated hard copper

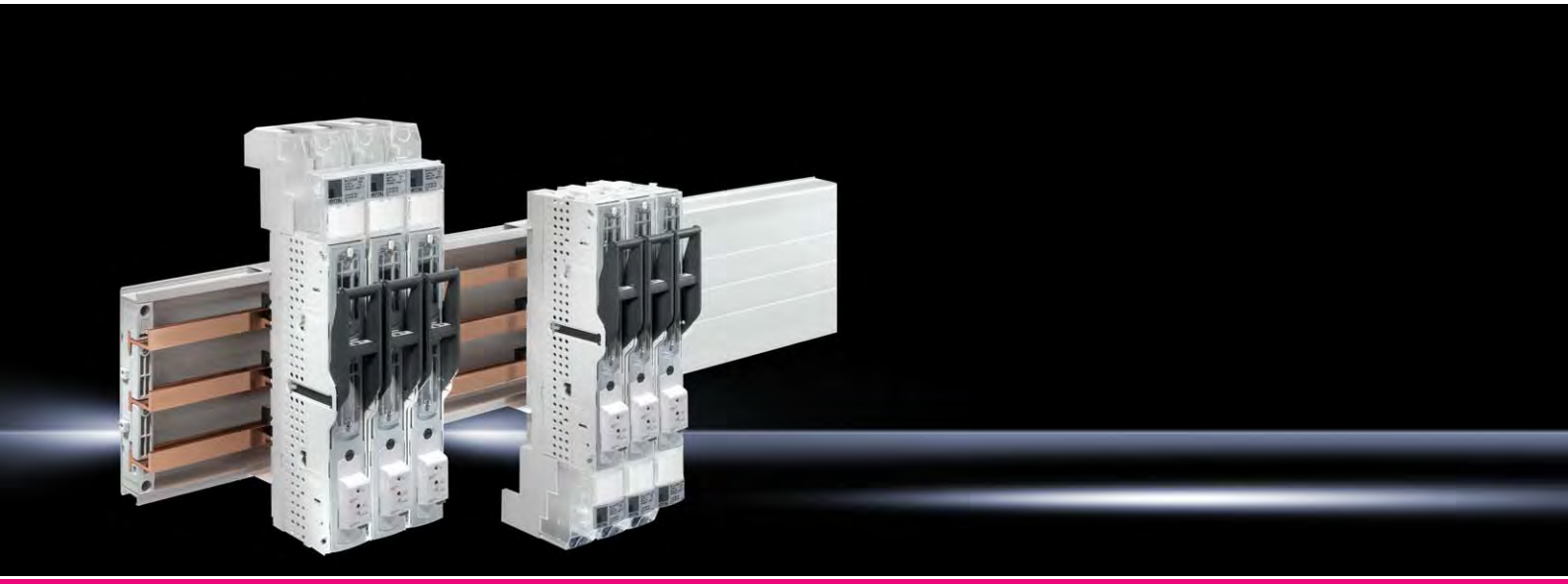
Colour:
- Chassis: RAL 7035
- Cover: RAL 7001
- Handle: RAL 7016

Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Size 00

Size	Packs of	00	00	00	00	00	Page
Rated operating current max. A		160	160	160	160	160	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	Screw M8	Box terminal	Screw M8	Screw M8	
Connection of round conductors mm^2		2.5 - 95	2.5 - 95	2.5 - 95	2.5 - 95	2.5 - 95	
Width mm		50	50	50	50	50	
Height mm		400	400	400	400	400	
For converter installation		–	–	–	–	■	
For bar systems with centre-to-centre spacing mm		60	60	100	100	100	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	**9346.000**	**9346.010**	**9346.020**	**9346.030**	**9346.060**	
Product-specific scope of supply							
3 mounting hooks		■	■	■	■	–	
Accessories							
Connection space cover	1 pc(s).	9346.460	9346.460	9346.460	9346.460	9346.460	357
Clamp-type terminal connection	3 pc(s).	–	3592.010	–	3592.010	3592.010	358
Micro-switch	5 pc(s).	9346.400	9346.400	9346.400	9346.400	9346.400	358

NH slimline fuse-switch disconnectors



Busbar system Page 300 **Connection adaptors** Page 304 **NH slimline fuse-switch disconnectors 185 mm** Page 374

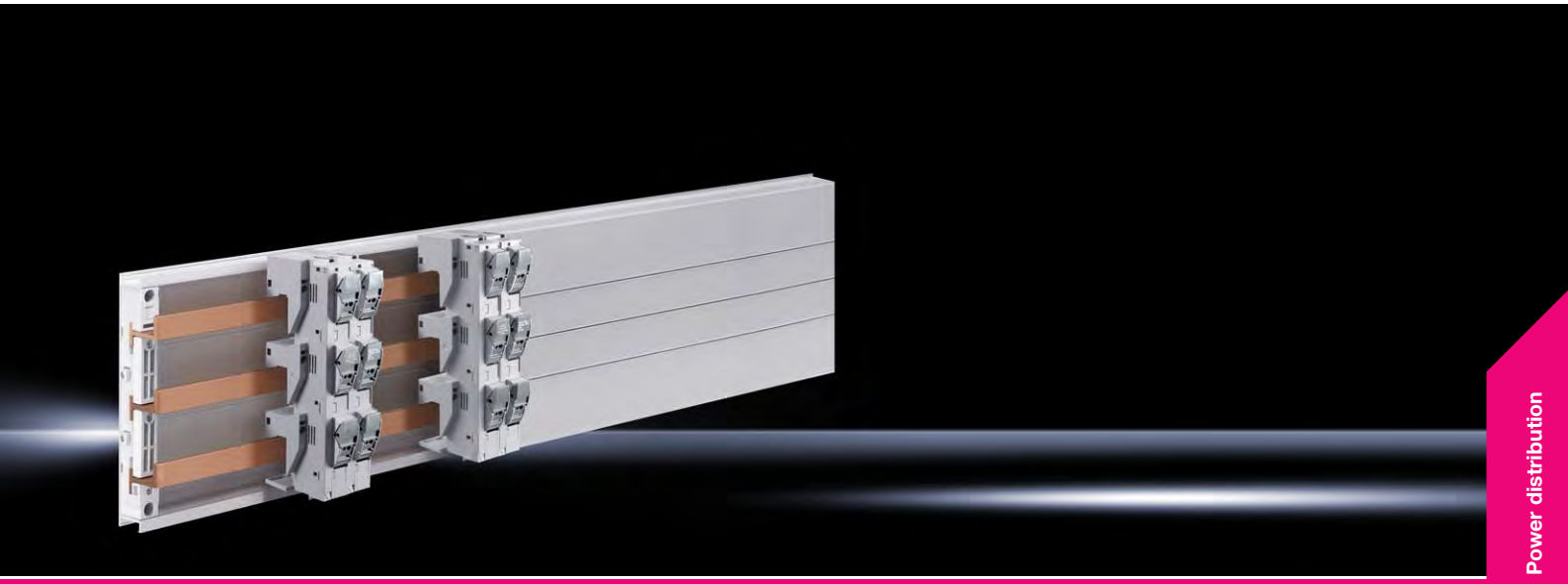
Material:
- Fibreglass-reinforced polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Silver-plated hard copper

Colour:
- Chassis: RAL 7035
- Cover: RAL 7001
- Handle: RAL 7016

Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Size 00, with electronic fuse monitoring

Size	Packs of	00	Page
Rated operating current max. A		160	
Rated operating voltage V, ~		690, 3~	
Number of poles		3-pole	
Cable outlet		Top/bottom	
Type of connection		Screw M8	
Connection of round conductors mm^2		2.5 - 95	
Width mm		50	
Height mm		400	
For bar systems with centre-to-centre spacing mm		60	
For bar thickness mm		5/10	
Model No.	1 pc(s).	**9346.015**	
Product-specific scope of supply			
3 mounting hooks		■	
Accessories			
Connection space cover	1 pc(s).	9346.460	357
Clamp-type terminal connection	3 pc(s).	3592.010	358
Micro-switch	5 pc(s).	9346.400	358



Busbar system Page 300 **Connection adaptors** Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

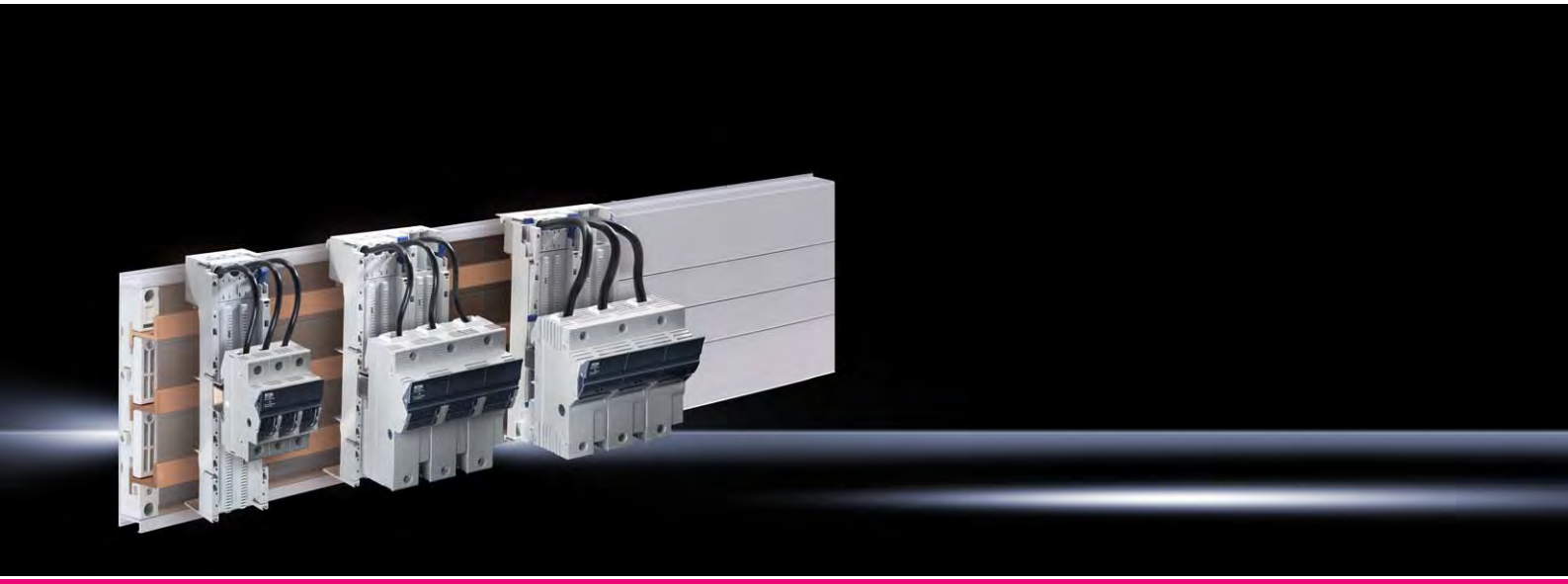
Basis of test:
- UL 4248-4

Note:
- Not suitable for accommodating fuses 10 x 38 mm to IEC 60 269-2/-4/-6

Rated operating current max. 30 A

Fuse type (class)	Packs of	CC	Page
Rated operating current max. A		30	
Rated operating voltage V, ~		600, 3~	
Number of poles		3-pole	
Fuse standard		UL 248-4	
Fuse size mm		10 x 38	
Voltage, indicator light V		110 - 600	
Connection of round conductors mm^2		1.5 - 6	
Connection of round conductors		AWG 10 - 16	
Width mm		27	
Height mm		200	
For bar systems with centre-to-centre spacing mm		60	
For bar thickness mm		5/10	
Model No.	4 pc(s).	**9345.040**	

Fuse holders



Busbar system Page 300 **Busbar connection adaptors** Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Basis of test:
- UL 4248-1
- UL 4248-4
- UL 4248-8

Note:
- For snap-on mounting on 35 mm (7.5 mm/15 mm high) support rails to DIN EN 60 715 or RiLine component adaptor adaptor combinations (OM adaptors/supports)

Rated operating current max. 30 – 60 A

Fuse type (class)		CC	J	J	Page
Rated operating current max. A		30	30	60	
Rated operating voltage V, ~		600, 3~	600, 3~	600, 3~	
Number of poles		3-pole	3-pole	3-pole	
Fuse standard		UL 248-4	UL 248-8	UL 248-8	
Fuse size mm		10 x 38	21 x 57	27 x 60	
Voltage, indicator light V		110 - 600	110 - 600	110 - 600	
Connection of round conductors mm^2		0.75 - 25	1.5 - 50	2.5 - 50	
Connection of round conductors		AWG 8 - 18	AWG 1 - 18	AWG 1 - 14	
Not suitable for accommodating fuses 10 x 38 mm to IEC 60 269-2/-4/-6		■	–	–	
Width mm		54	108	120	
Height mm		81	115	118	
Model No.		**9345.005**	**9345.015**	**9345.035**	
	Packs of	4 pc(s).	2 pc(s).	2 pc(s).	

Mounting example on 60 mm bar systems

Required accessories		For fuse holder			Page
Designation	Model No.	**9345.005**	**9345.015**	**9345.035**	
OM support	9340.260	–	1 pc(s).	–	313
OM support	9340.270	–	–	1 pc(s).	313
Connection pin	9340.280	–	3 pc(s).	6 pc(s).	354
Insert strip	9340.290	–	1 pc(s).	1 pc(s).	353
OM adaptor	9340.410	–	1 pc(s).	1 pc(s).	309
OM adaptor	9340.460	1 pc(s).	–	–	308
Support rail	9342.880	–	1 pc(s).	–	352
Support rail	9342.950	1 pc(s).	1 pc(s).	2 pc(s).	352

Busbar system Page 300 **Connection adaptors** Page 304 **OM adaptors** Page 307 **Circuit-breaker component adaptors** Page 314

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Electrolytic copper, silver-plated

Colour:
- Chassis: RAL 7035
- Cover: RAL 7035/7001

Note:
- UL (listed accessory) is met when using the fuse holder on RiLine busbar systems

Standards:
- UL 508

Rated operating current max. 100 – 400 A

Fuse type (class)	Packs of	J	J	J	Page
Rated operating current min. A		61	101	201	
Rated operating current max. A		100	200	400	
Rated operating voltage V, ~		600, 3~	600, 3~	600, 3~	
Number of poles		3-pole	3-pole	3-pole	
Fuse standard		UL 248-8	UL 248-8	UL 248-8	
Fuse size mm		29 x 118	41 x 146	54 x 181	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	Box terminal	Box terminal	
Connection of round conductors		AWG 2 – MCM 300	AWG 4/0 – MCM 600	AWG 4/0 – MCM 600	
Width mm		184	210	250	
Height mm		288	288	328	
Approvals		UL	UL	UL	
For bar systems with centre-to-centre spacing mm		60	60	60	
For bar thickness mm		5/10	5/10	5/10	
Model No.	1 pc(s).	**9345.100**	**9345.200**	**9345.400**	

Busbars/base isolators

Busbar supports

1-pole

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Note:
- Multi-pole systems with 60 mm bar centre distance may be configured by baying the busbar supports

Approvals:
- UL

Also required:
- Busbars E-Cu, see page 342
- PLS special busbars E-Cu, see page 344

Accessories:
- Spacer, see page 341

For busbar mm	12 x 5/10 15 x 5 - 30 x 10	PLS 1600
Note on Model No.	If 12 x 5/10 mm busbars are used, spacer 9340.090 is additionally required	–
PEN/N/PE support	■	■
Rated operating voltage V, ~	1000, 1~ 1500 (DC)	1000, 1~ 1500 (DC)
Number of poles	Single-pole	Single-pole
Product-specific scope of supply	–	Including raised section for stepped configuration of the PLS busbars
Packs of	4 pc(s).	4 pc(s).
Model No.	**9340.030**	**9342.030**

Busbar supports

2-pole

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Also required:
- Busbars E-Cu, see page 342

For busbar mm	12 x 5	12 x 5 - 30 x 10
Bar centre distance mm	70	60
PEN/N/PE support	■	■
N/PE support	■	■
Rated operating voltage V, ~	1000, 2~ 1500 (DC)	1000, 2~
Number of poles	2-pole	2-pole
Approvals	–	UL
Packs of	4 pc(s).	4 pc(s).
Model No.	**9600.005**	**9340.040**

Spacer

for RiLine busbar supports (flat busbar system)
For adapting 12 x 5 and 12 x 10 mm size busbars.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

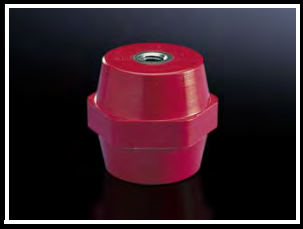
To fit Model No.	Packs of	**Model No.**
9340.000/9340.004/ 9340.010/9340.030	12 pc(s).	**9340.090**

Base isolator

For configuring busbar systems with any given bar centre distances and for assembling insulated PE or PEN busbars.

Material:
– Duroplastic polyester (UP resin)

Height mm	40	50
Thread	M10	M10
Rated operating voltage kV	1	1
Tensile strength kN	12	13
Torsional strength Nm	75	90
Bending strength kN	6	6
Packs of	6 pc(s).	6 pc(s).
Model No.	**3031.000**	**3032.000**



Busbars

CUPONAL busbars

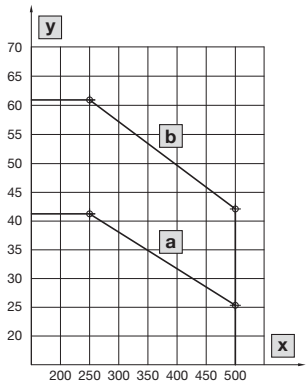
Copper-coated aluminium busbars, suitable for configuring busbar systems with busbar supports 9340.000/9340.050.

Material:
- Aluminium
- Copper

Note:
- The rated current is derived at 65 °C bar temperature and 35 °C ambient temperature
- Correction factor diagram to DIN EN 43 671
- May be cut individually to required length

Standards:
- DIN EN 13 601

Short-circuit resistance diagram 9340.000/9340.050



x Busbar support spacing (mm)
y Ip Surge-current resistance (kA)
a CUPONAL 20 x 5/10 mm
b CUPONAL 30 x 5/10 mm

Dimensions mm	Length mm	Rated current max. A	Packs of	**Model No.**
20 x 5	2400	235	6 pc(s).	**3582.020**
20 x 10	2400	363	3 pc(s).	**3585.020**
30 x 5	2400	328	6 pc(s).	**3584.020**
30 x 10	2400	493	3 pc(s).	**3586.020**

Busbars E-Cu

Material:
- E-Cu F30

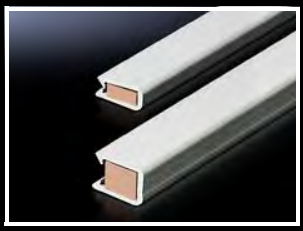
Note:
- May be cut individually to required length

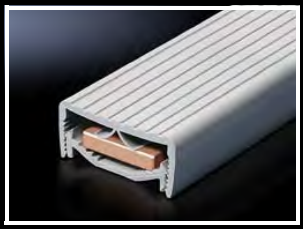
Standards:
- DIN EN 13 601

Accessories:
- Busbar connector, see page 343
- Busbar cover section, see page 343
- Inserted screw nuts M12, see page 1039

Dimensions mm	Length mm	Approvals	Packs of	**Model No.**
12 x 5	2400	UL	6 pc(s).	**3580.000**
15 x 5	2400	UL	6 pc(s).	**3581.000**
20 x 5	2400	UL	6 pc(s).	**3582.000**
25 x 5	2400	UL	6 pc(s).	**3583.000**
30 x 5	2400	UL	6 pc(s).	**3584.000**
12 x 10	2400	UL	6 pc(s).	**3580.100**
15 x 10	2400	UL	6 pc(s).	**3581.100**
20 x 10	2400	UL	3 pc(s).	**3585.005**
30 x 10	2400	UL	3 pc(s).	**3586.005**
40 x 10	2400	–	3 pc(s).	**3587.000**
50 x 10	2400	–	2 pc(s).	**3588.005**
60 x 10	2400	–	2 pc(s).	**3589.005**
80 x 10	2400	–	1 pc(s).	**3590.005**
100 x 10	2400	–	1 pc(s).	**3590.015**
120 x 10	2400	–	1 pc(s).	**3590.020**

Busbar cover section





Contact hazard protection by covering the busbars.

Material:
– Thermally modified hard PVC.
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Note:
– May be cut individually to required length

For busbar mm	Length mm	Approvals	Packs of	**Model No.**
12/15 x 5	1000	–	4 pc(s).	**9350.010**
12/15 x 10	1000	–	4 pc(s).	**9350.060**
12 x 5 - 30 x 10	1000	UR	10 pc(s).	**3092.000**
40 - 60 x 10	1000	UR	10 pc(s).	**3085.000**

Busbar connector

For connecting rectangular busbars, no drilling required.

Approvals:
– UL

For busbar mm	Connection type	Material	Packs of	**Model No.**
12 x 5 - 15 x 10	Single connection	Console: St 37, nickel-plated Contact plate: E-Cu, nickel-plated	3 pc(s).	**9350.075**
20 x 5 - 30 x 10	Single connection	Top piece: Sheet steel, zinc-plated, passivated Contact plate: E-Cu, silver-plated	3 pc(s).	**9320.020**
20 x 5 - 30 x 10	Baying connection from enclosure to enclosure	Top piece: Sheet steel, zinc-plated, passivated Contact plate: E-Cu, silver-plated	3 pc(s).	**9320.030**

Busbars

PLS special busbars E-Cu

Material:
– E-Cu

Note:
– May be cut individually to required length

Approvals:
– UL

Accessories:

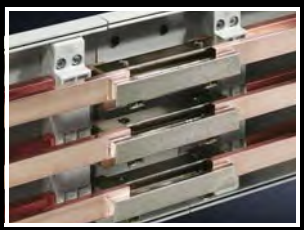
– PLS busbar connectors, see page 344
– PLS expansion connectors, see page 345

For system PLS 800

For enclosure width mm	Cross-section mm²	Length mm	Bar thickness mm	Packs of	**Model No.**
600	300	495	5	3 pc(s).	**3524.000**
800	300	695	5	3 pc(s).	**3525.000**
1000	300	895	5	3 pc(s).	**3525.010**
1200	300	1095	5	3 pc(s).	**3526.000**
–	300	2400	5	1 pc(s).	**3509.000**

For system PLS 1600

For enclosure width mm	Cross-section mm²	Length mm	Bar thickness mm	Packs of	**Model No.**
600	900	495	10	3 pc(s).	**3527.000**
800	900	695	10	3 pc(s).	**3528.000**
1000	900	895	10	3 pc(s).	**3528.010**
1200	900	1095	10	3 pc(s).	**3529.000**
–	900	2400	10	1 pc(s).	**3516.000**



PLS busbar connectors

For connecting the PLS special busbars; no drilling required.

Material:
– E-Cu

Surface finish:
– Nickel-plated

Approvals:
– UL

For system PLS 800

Connection type	Packs of	**Model No.**
Single connection	3 pc(s).	**3504.000**
Baying connection from enclosure to enclosure	3 pc(s).	**3505.000**

For system PLS 1600

Connection type	Packs of	**Model No.**
Single connection	3 pc(s).	**3514.000**
Baying connection from enclosure to enclosure	3 pc(s).	**3515.000**

PLS expansion connectors

For thermal and mechanical compensation when connecting PLS special busbars from enclosure to enclosure.

Material:
– E-Cu

Note:
– At a temperature increase of 30 K, there is an expansion in the length of the busbars by approximately 0.5 mm/m. For this reason, it is advisable to use an expanding connection for thermal compensation in busbar systems with busbar sections > 3600 mm.

Approvals:
– UR

For system	Packs of	**Model No.**
PLS 800	3 pc(s).	**9320.060**
PLS 1600	3 pc(s).	**9320.070**

Also required:

– PLS busbar connectors, see page 344

Assembly instruction:

– Two busbar connectors are needed to fit one expansion connector.

The Copper Workstation CW 120-M is ideal for bending, punching and cutting busbars, from page 639

Laminated copper bars

Material:
- Cu lamina High-purity electrolyte copper F20
- Insulation: Highly resistant vinyl compound, elongation 370%, temperature: -30 °C...+105 °C, fire protection corresponding to UL-94 V0, dielectric strength: 20 kV/mm

Note:
- Construction = Number of lamina x lamina width x lamina thickness
- May be cut individually to required length
- The conductor temperature of the laminated copper bar is derived by adding the ambient temperature and the temperature increase together. Example: 3565.005 carrying 180 A, i.e. the temperature increases by 30 K. At an ambient temperature of 35 °C, this produces a resultant conductor temperature of 35 °C + 30 K = 65 °C.

Accessories:
- Universal support, see page 346

Construction mm	Length mm	Rated current (at 70 K) A	Rated current (at 50 K) A	Rated current (at 30 K) A	Packs of	**Model No.**
6 x 9 x 0.8	2000	285	240	180	1 pc(s).	**3565.005**
6 x 15.5 x 0.8	2000	415	350	265	1 pc(s).	**3568.005**
10 x 15.5 x 0.8	2000	575	480	365	1 pc(s).	**3569.005**
5 x 20 x 1	2000	525	435	330	1 pc(s).	**3570.005**
5 x 24 x 1	2000	605	510	385	1 pc(s).	**3571.005**
10 x 24 x 1	2000	920	770	585	1 pc(s).	**3572.005**
5 x 32 x 1	2000	770	645	485	1 pc(s).	**3573.005**
10 x 32 x 1	2000	1155	965	730	1 pc(s).	**3574.005**
5 x 40 x 1	2000	930	780	590	1 pc(s).	**3575.005**
10 x 40 x 1	2000	1370	1145	865	1 pc(s).	**3576.005**
5 x 50 x 1	2000	1125	940	710	1 pc(s).	**3577.005**
10 x 50 x 1	2000	1635	1365	1030	1 pc(s).	**3578.005**
10 x 63 x 1	2000	1950	1610	1230	1 pc(s).	**3579.005**

Universal support

for laminated copper bars
For the attachment of laminated copper bars from 5 x 20 x 1 to 10 x 63 x 1 mm.

Material:
- Fibreglass-reinforced, thermoplastic polyester (PBT)
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Supply includes:
- Assembly parts

Packs of	**Model No.**
3 pc(s).	**3079.000**

Accessories:
- Punched rail 23 x 23 mm, see page 994

Universal support

for laminated copper bars
For the attachment of multi-stacked laminated copper bars from 5 x 40 x 1 to 10 x 100 x 1 mm.

Material:
- Fibreglass-reinforced, thermoplastic polyester (PBT)
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Supply includes:
- Assembly parts

Packs of	**Model No.**
1 pc(s).	**3079.010**

Note:
- 1 universal support corresponding to the supply scope shown in the photograph

Accessories:
- C rails 30/15, see page 996

Base tray

for RiLine busbar systems
For rear contact hazard protection of the busbar assembly.

Material:
– Thermally modified hard PVC.
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Note:
– May be cut individually to required length

Approvals:
– UL

For system Flat copper busbars, 3-pole

Length mm	Packs of	Model No.
500	2 pc(s).	**9340.100**
700	2 pc(s).	**9340.110**
900	2 pc(s).	**9340.120**
1100	2 pc(s).	**9340.130**
2400	1 pc(s).	**9340.170**

For system Flat copper busbars, 4-pole

Length mm	Packs of	Model No.
1100	2 pc(s).	**9340.134**

For system PLS 800, 3-pole

Length mm	Packs of	Model No.
500	2 pc(s).	**9341.100**
700	2 pc(s).	**9341.110**
900	2 pc(s).	**9341.120**
1100	2 pc(s).	**9341.130**
2400	1 pc(s).	**9341.170**

For system PLS 1600, 3-pole

Length mm	Packs of	Model No.
500	2 pc(s).	**9342.100**
700	2 pc(s).	**9342.110**
900	2 pc(s).	**9342.120**
1100	2 pc(s).	**9342.130**
2400	1 pc(s).	**9342.170**

For system PLS 1600, 4-pole

Length mm	Packs of	Model No.
1100	2 pc(s).	**9342.134**

Base tray infill

for RiLine busbar systems
For rear contact hazard protection when connecting the busbars from enclosure to enclosure.

Material:
– Thermally modified hard PVC.
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Approvals:
– UL

For system	Length mm	Packs of	Model No.
Flat copper busbars, 3-pole	100	2 pc(s).	**9340.140**
PLS 800, 3-pole	100	2 pc(s).	**9341.140**
PLS 1600, 3-pole	100	2 pc(s).	**9342.140**

Contact hazard protection

Cover section

for RiLine busbar systems
For clip-on mounting onto the base tray.

Material:
– Thermally modified hard PVC.
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Note:
– If the cover section is loaded from the front, the support panel is needed for stability
– May be cut individually to required length

Approvals:
– UL

For system	Length mm	Packs of	**Model No.**
Flat copper busbars, 3-pole PLS 800, 3-pole PLS 1600, 3-pole	700	2 pc(s).	**9340.200**
Flat copper busbars, 3-pole PLS 800, 3-pole PLS 1600, 3-pole	1100	2 pc(s).	**9340.210**
Flat copper busbars, 4-pole PLS 1600, 4-pole	1100	2 pc(s).	**9340.214**

Also required:
– Base tray, see page 347

Accessories:
– Support panel, see page 348

Support panel

for cover section
To prevent side access to the cover section. The support panel also provides additional stability. Recommended mounting distance ≤ 500 mm.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Approvals:
– UL

For system	Packs of	**Model No.**
3-pole	5 pc(s).	**9340.220**
4-pole	5 pc(s).	**9340.224**

Cross member

for RiLine busbar connections
To comply with the clearances required for "feeder circuits" under UL 508. For flat bar systems with 60 mm bar centre distance and PLS 800/1600.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Note:
– 2 cross members are required for one busbar connection

Approvals:
– UL

For system	Length mm	Packs of	**Model No.**
3-pole	160	2 pc(s).	**9340.230**

Also required:
– Support panel, see page 348

Conductor connection clamps

Push-in

Applications:
- For use as busbar pick-off of L, N or PE conductors in switchgear and controlgear, and as a conductor connection clamp in meter boxes.
- For mounting on E-Cu or CUPONAL busbars

Benefits:
- Maintenance-free
- Time-saving top-mounting
- Terminal box with integral label panels
- Universal conductor connection

Functions:
- Fully insulated terminal for tool-free conductor connection
- Conductor is released by the integral release pin

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7042

Basis of test:
- IEC 60 999-1
- IEC 60 947-7-1/-2

For bar thickness mm	Connection of round conductors, single-wire mm^2	Connection of round conductors, multi-wire mm^2	Connection of round conductors, fine wire without wire end ferrule mm^2	Connection of round conductors, fine wire with wire end ferrule mm^2	Packs of	**Model No.**
5	0.5 - 6	0.5 - 4	0.5 - 4	0.5 - 4	10 pc(s).	**3450.505**
5	1.5 - 16	1.5 - 16	1.5 - 16	1.5 - 16	10 pc(s).	**3451.505**
10	0.5 - 6	0.5 - 4	0.5 - 4	0.5 - 4	10 pc(s).	**3455.505**
10	1.5 - 16	1.5 - 16	1.5 - 16	1.5 - 16	10 pc(s).	**3456.505**

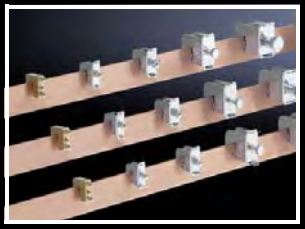
Conductor connection clamps

For connecting round conductors and laminated copper bars.

Note:
- Wire end ferrules should be used with fine wire conductors

Approvals:
- UR

Accessories:
- Laminated copper bar, see page 346



For bar thickness mm	Connection of round conductors mm^2	Clamping area for laminated copper bars (W x H) mm	Material	Surface finish	Packs of	**Model No.**
5	1 - 4	–	Sheet steel	Zinc-plated, passivated	15 pc(s).	**3450.500**
5	2.5 - 16	8 x 8	Sheet steel	Zinc-plated, passivated	15 pc(s).	**3451.500**
5	16 - 50	10.5 x 11	Sheet steel	Zinc-plated, passivated	15 pc(s).	**3452.500**
5	35 - 70	16.5 x 15	Sheet steel	Zinc-plated, passivated	15 pc(s).	**3453.500**
5	70 - 185	22.5 x 20	Sheet steel	Zinc-plated, passivated	15 pc(s).	**3454.500**
10	1 - 4	–	Sheet steel	Zinc-plated, passivated	15 pc(s).	**3455.500**
10	2.5 - 16	8 x 8	Sheet steel	Zinc-plated, passivated	15 pc(s).	**3456.500**
10	16 - 50	10.5 x 11	Sheet steel	Zinc-plated, passivated	15 pc(s).	**3457.500**
10	35 - 70	16.5 x 15	Sheet steel	Zinc-plated, passivated	15 pc(s).	**3458.500**
10	70 - 185	22.5 x 20	Sheet steel	Zinc-plated, passivated	15 pc(s).	**3459.500**
3 - 5	1 - 4	–	Brass	–	15 pc(s).	**3550.000**
6 - 10	1 - 4	–	Brass	–	15 pc(s).	**3555.000**

Connection systems

Plate clamps

For connecting laminated copper bars; no drilling required.

Material:
– Sheet steel

Surface finish:
– Zinc-plated, passivated

For busbar mm	Clamping area for laminated copper bars (W x H) mm	Packs of	**Model No.**
12 x 5 - 30 x 10	34 x 10	3 pc(s).	**3554.000**
40 x 10	34 x 10	3 pc(s).	**3559.000**
50 x 10	34 x 10	3 pc(s).	**3560.000**
50 x 10	54 x 10	3 pc(s).	**3562.000**
60 x 10	34 x 10	3 pc(s).	**3561.000**
60 x 10	54 x 10	3 pc(s).	**3563.000**
80 x 10	65 x 10	3 pc(s).	**3460.500**

Accessories:

– Laminated copper bar, see page 346

System cover

For conductor connection clamps and plate clamps.

Material:
– ABS
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Note:
– For 3-pole systems with 60/100 mm bar centre distance
– Only suitable for use with systems without a base tray
– For systems with a base tray, the system covers must be mechanically shortened

Approvals:
– UR

Width mm	Depth mm	Height when mounting on 60 mm busbar systems mm	Height when mounting on 100 mm busbar systems mm	Packs of	**Model No.**
50	80	230	325	4 pc(s).	**3086.000**
100	80	230	325	4 pc(s).	**3087.000**
100	110	230	325	4 pc(s).	**3090.000**
200	80	230	325	4 pc(s).	**3088.000**
200	110	230	325	4 pc(s).	**3091.000**

Connection block

Suitable for busbars 12 x 5 to 30 x 10 mm and PLS 800/1600.

Material:
- Punched section: Polyamide
- Cover: ABS
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Supply includes:
- 3 terminals including cover

Note:
- When using the terminal on 2-pole busbar systems (SV 9340.040), the terminal must be rotated through 180° for connection to the PE busbar

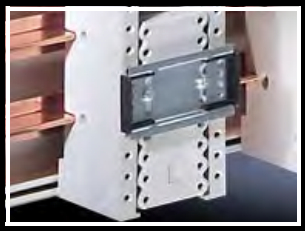
Approvals:
- UL

Accessories:

- Laminated copper bar, see page 346

Rated current max. A	800	1600
Rated operating voltage V, ~	690, 1~	690, 1~
Rated operating voltage (L1 + L2) V	1000 (DC)	1000 (DC)
Rated operating voltage (L1 + L3) V	1500 (DC)	1500 (DC)
Cable outlet	Top/bottom	Top/bottom
Connection of round conductors, fine wire with wire end ferrule mm^2	95 - 185	–
Connection of round conductors, multi-wire mm^2	95 - 300	–
Clamping area for laminated copper bars with 5 mm bar thickness (W x H) mm	33 x 26	65 x 27
Clamping area for laminated copper bars with 10 mm bar thickness (W x H) mm	33 x 22	65 x 22
Width mm	50	85
Height mm	88	88
Packs of	3 pc(s).	3 pc(s).
Model No.	**9342.311**	**9342.321**

for OM adaptors/supports/component adaptors



Support rail 35 x 7.5 mm

for Mini-PLS component adaptors

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– Assembly screws and side anti-slip guard

Width mm	Packs of	Model No.
45	10 pc(s).	**9320.150**
54	10 pc(s).	**3548.000**

Support rail 35 x 7.5 mm

for OM adaptors/supports

Applications:
– For assembly on 55 mm wide OM adaptors/ supports with 10 mm wide insert strips mounted on the right and left
– Arrangement of the mounting hole for central configuration on 55 mm wide adaptor section or support frame

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– Assembly screws and side anti-slip guard

Width mm	Packs of	Model No.
72	5 pc(s).	**9342.980**

Support rail 35 x 10 mm

for OM adaptors/supports
For attaching to the adaptor section and support frame.

Material:
– Polyamide

Colour:
– RAL 9005

Supply includes:
– Assembly screws

Note:
– UL approval in conjunction with OM adaptors/ supports
– Support rail TS xxD-V only suitable for non-pitch pattern-dependent mounting on support frame

Width mm	With anti-slip guard for motor circuit-breaker	Design	Packs of	Model No.
45	■	TS 45C	5 pc(s).	**9342.850**
45	–	TS 45D	5 pc(s).	**9342.860**
45	–	TS 45D-V	5 pc(s).	**9342.870**
55	■	TS 55C	5 pc(s).	**9342.920**
55	–	TS 55D	5 pc(s).	**9342.930**
55	–	TS 55D-V	5 pc(s).	**9342.940**

Support rail 35 x 15 mm

for OM adaptors/supports
For attaching to the adaptor section.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– Assembly screws and side anti-slip guard

Width mm	Packs of	Model No.
45	5 pc(s).	**9342.880**
55	5 pc(s).	**9342.950**

for OM adaptors/supports/component adaptors

Support rail 35 x 15 mm

for Mini-PLS/circuit-breaker component adaptors

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– Assembly screws and side anti-slip guard

Approvals:
– UR

Width mm	To fit Model No.	Packs of	Model No.
72	9342.400/ 9342.410/ 9629.000	5 pc(s).	**9320.120**

Insert strip

for Mini-PLS component adaptors
To extend the construction width.

Material:
– ABS

Colour:
– RAL 7035

Approvals:
– UR

Width mm	Packs of	Model No.
9	2 pc(s).	**9623.000**

Insert strip

for OM adaptors/supports
To extend the construction width in a 10 mm pitch pattern. May be bayed as often as required on both sides. With integral cable duct.

Material:
– Polyamide

Colour:
– RAL 7035

Supply includes:
– 6 connection pins

Approvals:
– UL

Width mm	Packs of	Model No.
10	2 pc(s).	**9340.290**

Insert strip

for circuit-breaker component adaptors
To extend the construction width from 140 mm to 190 mm.

Material:
– ABS

Colour:
– RAL 7035

Supply includes:
– Connection parts for power circuit-breaker, brand Siemens VL630 (3-pole)

Note:
– 4 pieces are needed to widen a component adaptor

Approvals:
– UL

Width mm	To fit Model No.	Packs of	Model No.
25	9345.700/ 9345.710/ 9345.720/ 9345.730	4 pc(s).	**9342.720**

RiLine accessories

for OM adaptors/supports/component adaptors

Connection pin

for OM adaptors/supports
For any required mechanical connection of OM adaptors/supports and insert strip 9340.290.

Material:
– Polyamide

Colour:
– RAL 5010

Approvals:
– UL

Packs of	Model No.
20 pc(s).	**9340.280**

PinBlock

for support frames
For reliable attachment and positioning of the contactor on motor starter combinations. Simple clip-on mounting onto the support frame. Individual vertical positioning is achieved by relocating the PinBlock.

Material:
– Polyamide

Colour:
– RAL 9005

Note:
– UL approval in conjunction with OM adaptors/supports

For support frame width mm	Packs of	Model No.
45	5 pc(s).	**9342.800**
55	5 pc(s).	**9342.810**

Accessories:
– PinBlock Plus, see page 354

PinBlock Plus

for starters with increased contactor attachment
Mounted by simply clipping onto the PinBlock 9342.800/.810.

Material:
– Polyamide

Colour:
– RAL 9005

Note:
– UL approval in conjunction with OM adaptors/supports

Packs of	Model No.
5 pc(s).	**9342.820**

Cable set

for OM adaptors with spring terminal block
Pre-assembled connection cables for individual connection of switchgear, top-mounted on OM adaptors with tension spring clamps.

Material:
– PVC insulation
– Temperature resistant to 105 °C
– Wire ends with ultrasonic wire-end compression at both ends

Note:
– AWG = American Wire Gauge

Cross-section	Length mm	Packs of	Model No.
AWG 14 = 2.08 mm^2 ≙ 2,5 mm^2	140	15 pc(s).	**9340.850**
AWG 12 = 3.31 mm^2 ≙ 4 mm^2	140	15 pc(s).	**9340.860**
AWG 10 = 5.26 mm^2 ≙ 6 mm^2	140	15 pc(s).	**9340.870**
AWG 8 = 8.37 mm^2 ≙ 10 mm^2	140	6 pc(s).	**9340.880**
AWG 6 = 13.3 mm^2 ≙ 16 mm^2	140	6 pc(s).	**9340.890**

for OM adaptors/supports/component adaptors

Twin cord

for OM adaptors with spring terminal block 2.5 – 16 mm²

Pre-assembled connection cables for individual connection of up to two switchgear units per adaptor.

Material:
- PVC insulation
- Temperature resistant to 105 °C
- Wire ends with ultrasonic wire-end compression at both ends

Note:
- AWG = American Wire Gauge

Cross-section	Length mm	Packs of	**Model No.**
AWG 10 = 5.26 mm² ≙ 6 mm²	140 250	6 pc(s).	**9340.820**
AWG 8 = 8.37 mm² ≙ 10 mm²	140 250	6 pc(s).	**9340.830**

Sliding block

for circuit-breaker component adaptors

For additional locking of circuit-breakers with more than two attachment points.

Colour:
- RAL 7035

Note:
- UL approval in conjunction with circuit-breaker component adaptor

To fit Model No.	With threaded insert	Packs of	**Model No.**
9342.500/9342.510/ 9342.504/9342.514/ 9342.540/9342.550	M3 M4	6 pc(s).	**9342.560**
9345.600/9345.610/ 9345.604/9345.614	M4 M5	6 pc(s).	**9342.640**

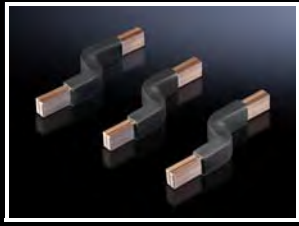
Connection bracket

for circuit-breaker component adaptors

Pre-assembled, laminated flat copper for connecting standard, commercially available moulded case circuit-breakers (MCCB).

Material:
- Electrolytic copper F20

Note:
- Universal application for switchgear with a dimensional difference between the mounting level and the upper edge of the contact level of 20 ± 5 mm.



For switchgear make (model)	To fit Model No.	Number of lamina	Membrane width mm	Membrane thickness mm	Packs of	**Model No.**
ABB (T1, T1 UL, T2, T2 UL) Eaton (NZM1, NZM1 UL, BZM B1) Schneider Electric (NSC100, NSE75, NSE100)	9342.500/ 9342.510/ 9342.540/ 9342.550	6	9	0.8	3 pc(s).	**9342.570**

RiLine accessories

for bus-mounting fuse bases

Contact hazard protection cover plate

for bus-mounting fuse bases
The cover ensures contact hazard protection from the front, top and below. All-round contact hazard protection (up to IP 2X) in conjunction with the side cover 3093.010/.020.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

To fit Model No.	Fuse inserts	Packs of	**Model No.**
3418.010	D 02-E 18	10 pc(s).	**3418.020**
3427.010	D II-E 27	10 pc(s).	**3427.020**
3433.010	D III-E 33	10 pc(s).	**3433.020**

Cover, side

for bus-mounting fuse bases
For clip-on mounting onto the cover plate, contact hazard protection.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

To fit Model No.	Fuse inserts	Packs of	**Model No.**
3418.010	D 02-E 18	10 pc(s).	**3093.010**
3427.010/ 3433.010	D II-E 27 D III-E 33	10 pc(s).	**3093.020**

Connection space extender

for bus-mounting fuse bases
Contact hazard protection cover plate including cable duct for side extension of the connection space by 14 mm.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

To fit Model No.	Fuse inserts	Packs of	**Model No.**
3418.010	D 02-E 18	10 pc(s).	**3418.030**
3427.010	D II-E 27	10 pc(s).	**3427.030**
3433.010	D III-E 33	10 pc(s).	**3433.030**

Wiring duct

for D-Switch bus-mounting fuse base
For safe, shock-hazard-protected routing of connection cables. Also suitable for use as a spacer support.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Width mm	To fit Model No.	Packs of	**Model No.**
13.5	9340.950	10 pc(s).	**9340.905**

Box terminal

for NH fuse-switch disconnectors
For direct connection of round and sector-shaped conductors and laminated copper bars. Suitable for NH fuse-switch disconnectors with screw terminal.

Material:
– Cast brass

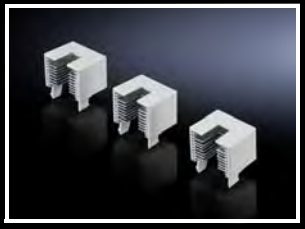
Surface finish:
– Nickel-plated

For size	Connection of round conductors mm^2	Connection of sector-shaped conductors mm^2	Clamping area for laminated copper bars (W x H) mm	Packs of	**Model No.**
1	35 - 150	50 - 150	20 x 14	3 pc(s).	**9344.610**
2/3	95 - 300	120 - 300	32 x 20	3 pc(s).	**9344.620**

Arcing chamber

for NH fuse-switch disconnectors
To increase switching capacity (utilisation category).

For size	Packs of	**Model No.**
1 - 3	3 pc(s).	**9344.680**



Connection space cover

for NH fuse-switch disconnectors
For extending the contact hazard protection cover, e.g. when using ring terminals with a long collar. Bayable as required at the top and bottom.

Material:
– Polyamide

Colour:
– RAL 7035

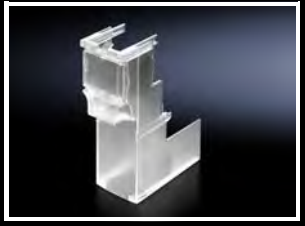
For size	Packs of	**Model No.**
00	2 pc(s).	**9344.520**
1	2 pc(s).	**9344.530**
2	2 pc(s).	**9344.540**
3	2 pc(s).	**9344.550**

Connection space cover

for NH slimline fuse-switch disconnectors
Extended version for the use of ring terminals with a long collar.

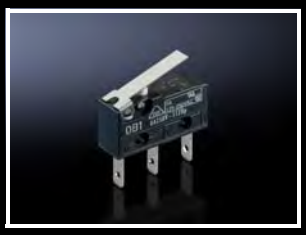
Material:
– Polycarbonate

For size	Packs of	**Model No.**
00	1 pc(s).	**9346.460**



RiLine accessories

for NH fuse elements



Micro-switch

for NH fuse-switch disconnectors/NH slimline fuse-switch disconnectors (185 mm)
To indicate the switch position of the NH unit (cover).

For size	Rated operating current max. A	Rated operating voltage V	Product-specific scope of supply	Packs of	**Model No.**
NH fuse-switch disconnectors, size 000/00 NH slimline fuse-switch disconnector, size 00 - 3 (185 mm)	5	250	–	5 pc(s).	**3071.000**
NH fuse-switch disconnectors, size 1 - 3	5	250	Including plastic lug for attaching the micro-switch to the disconnector chassis	2 pc(s).	**9344.510**

Micro-switch

for NH slimline fuse-switch disconnectors
To indicate the switch position of the NH unit (cover).

For size	Rated operating current max. A	Rated operating voltage V	Packs of	**Model No.**
00	5	250	5 pc(s).	**9346.400**

Clamp-type terminal connection

for NH slimline fuse-switch disconnectors
For the connection of round conductors. Suitable for NH slimline fuse-switch disconnectors with screw terminal.

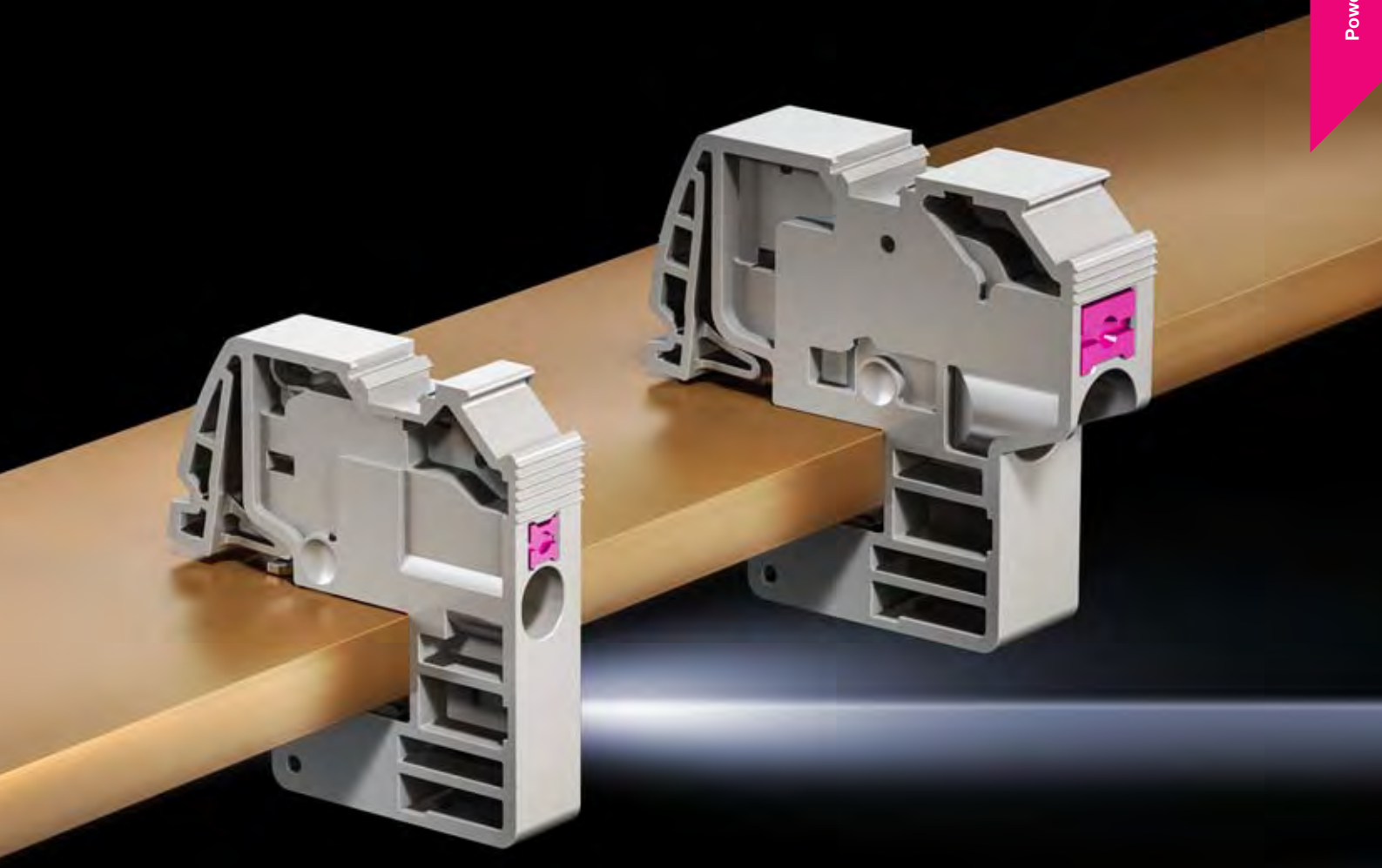
Material:
– Cast brass

Surface finish:
– Nickel-plated

For size	Connection of round conductors mm^2	Packs of	**Model No.**
00	1.5 - 95	3 pc(s).	**3592.010**

Push-in conductor connection clamps

Simple, tool-free cable connection, see page 349



Rittal – The System.

Faster – better – everywhere.

VX25 Ri4Power

Busbar systems

Ri4Power busbar system (185 mm) 368
Busbar systems (100/185/150 mm) 388
Flat-PLS 394
Maxi-PLS 401

Connection system

Flat-PLS 398
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Accessories – connection components 405
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Cover systems

Form 1 408
Form 2b 409

Compartment configuration

Form 1-4 410

Fuse-switch disconnector section

Busbar end supports 415
Cover 415
Ri4Power accessories 417
ISV distribution enclosures 419

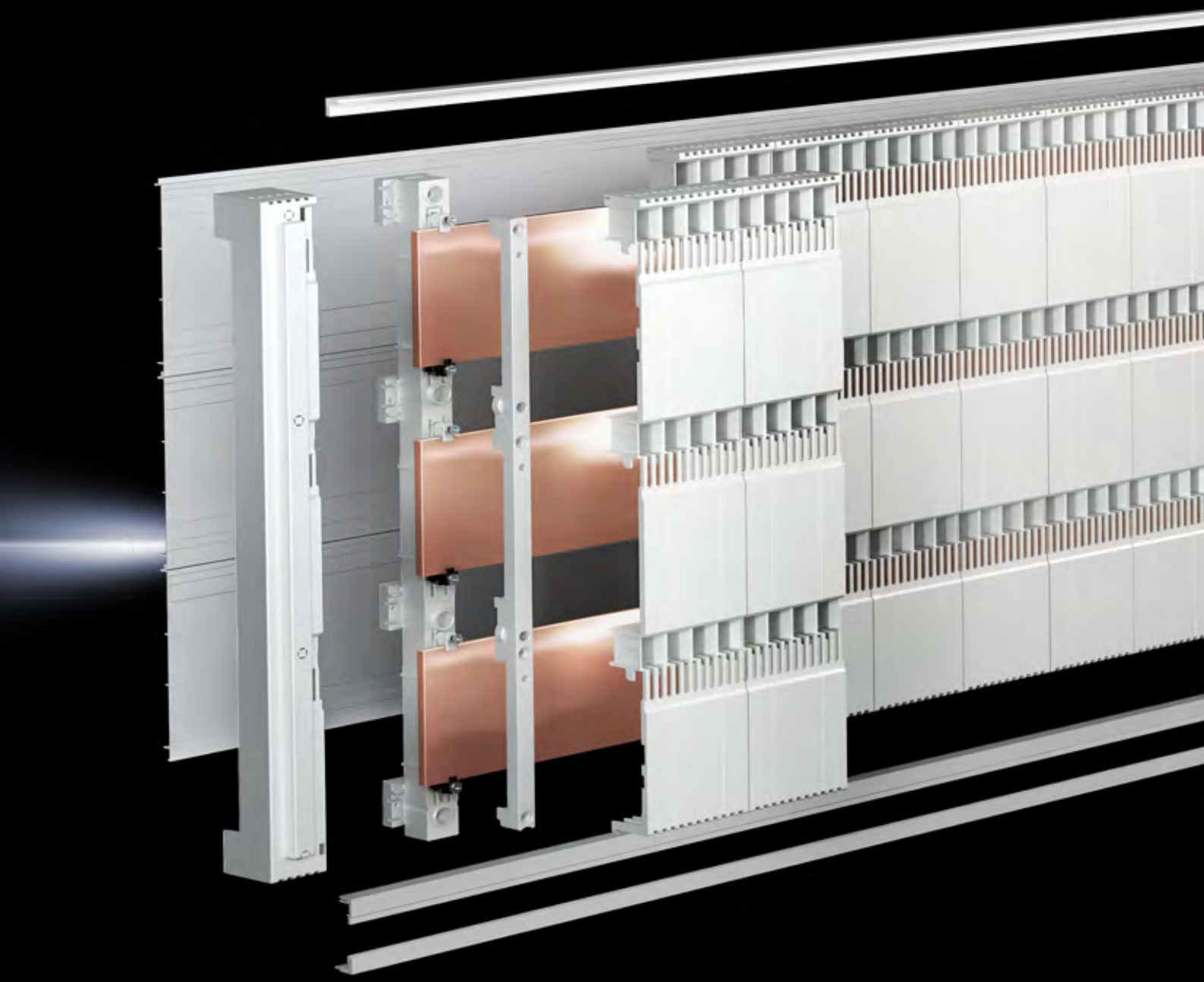
Baying enclosure system VX25

Modular enclosures 132
Fuse-switch-disconnector enclosures 134
Distribution enclosures 135
ISV installation kits 420
ISV installation modules 421
ISV accessories 428
Installation accessories for modular front design 926

VX25 Ri4Power system 185 mm – System assembly without drilling

The busbar system is quickly and conveniently installed in the enclosure in just three steps:

- Position the punched section with mounting flange and system attachment in the enclosure
- Secure the busbar assembly
- Clip the cover system into position



Busbar support

- For busbar dimensions ranging from 40 x 10 to 120 x 10 mm
- The support may be top-mounted with components using the pitch pattern of the cover system
- Rated short-time withstand current I_{cw} up to 50 kA
- Rated busbar currents of up to 2100 A
- Mounting via system attachment in the VX25 baying enclosure system, no drilling required

Cover section

- Contact hazard protection up to IP 2XB (safe from finger-contact)
- Integral busbar shielding to prevent accidental arcing
- Secure positioning of the top-mounting components, thanks to centring device
- New contact system allows components to be top-mounted on the cover section
- Components are easily retrofitted without removing the cover section

Base tray

- For rear contact hazard protection of the busbar assembly
- For optimum all-round contact hazard protection in conjunction with the cover section
- Prepared ready to install, fits VX25 baying enclosure system widths from 600 mm to 1200 mm

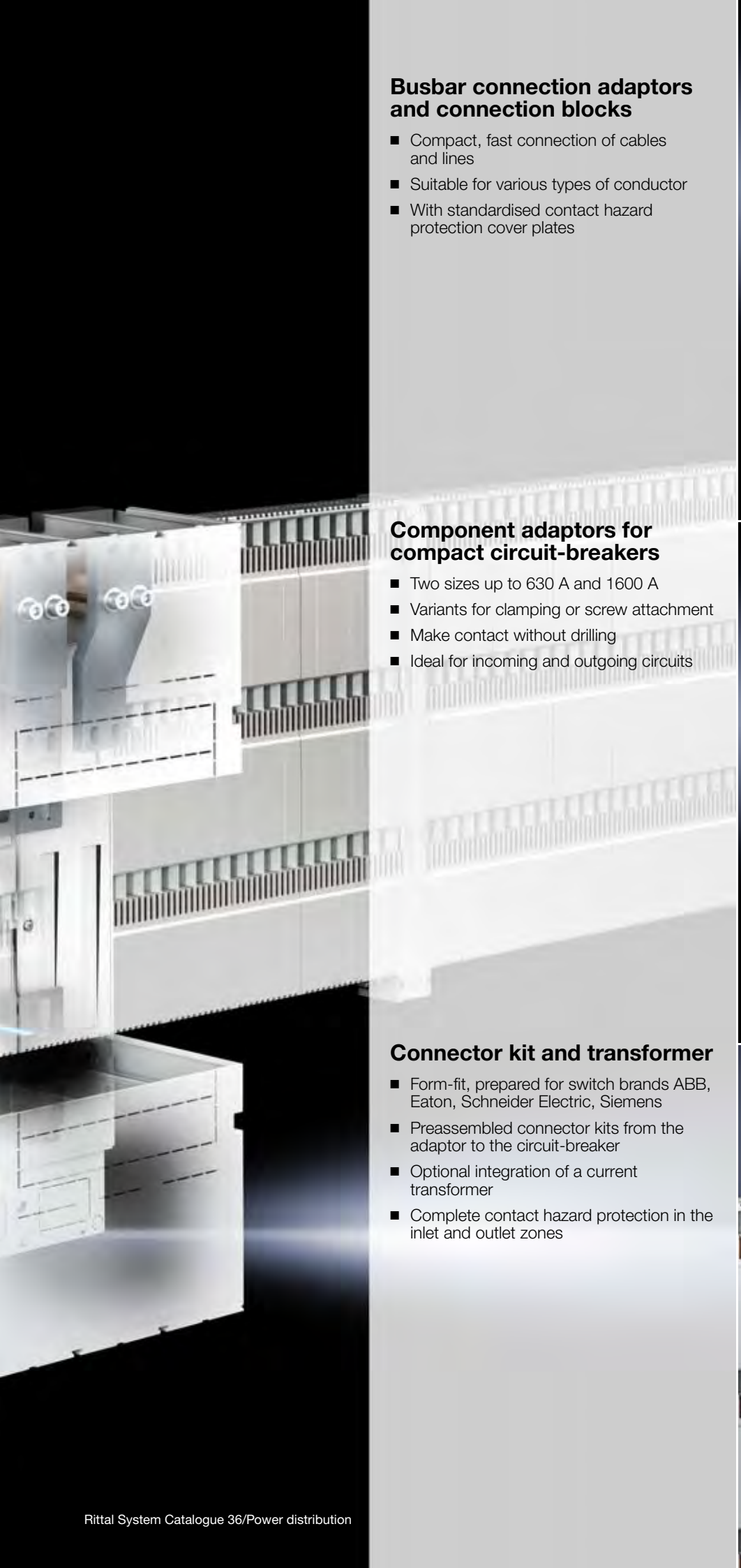
The perfect-fit adaptor system

Connection and component adaptors for tested, safe connection at high currents

- For air circuit-breakers up to 630 A and 1600 A
- Direction connection of various conductor types
- No-drill connection system to the busbar

Busbar connection adaptors and connection blocks

- Compact, fast connection of cables and lines
- Suitable for various types of conductor
- With standardised contact hazard protection cover plates

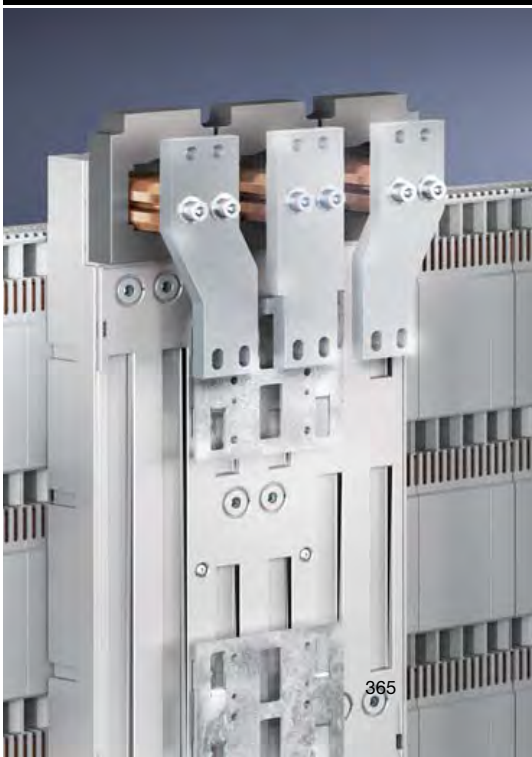


Component adaptors for compact circuit-breakers

- Two sizes up to 630 A and 1600 A
- Variants for clamping or screw attachment
- Make contact without drilling
- Ideal for incoming and outgoing circuits

Connector kit and transformer

- Form-fit, prepared for switch brands ABB, Eaton, Schneider Electric, Siemens
- Preassembled connector kits from the adaptor to the circuit-breaker
- Optional integration of a current transformer
- Complete contact hazard protection in the inlet and outlet zones



Fuse elements to suit all situations

The new system of NH slimline fuse-switch disconnectors is based on separate air routing for heat dissipation and targeted removal of switching gases, while the NH slimline switch-disconnectors ensure user-independent disconnection and switching for enhanced safety.

- Simple device assembly
- Safe operation
- Optimum contact hazard protection

NH slimline fuse-switch disconnectors, sizes 00 to 3

- Single-pole and 3-pole switchable variants
- Symmetrical layout for cable outlet at the top and bottom
- Optional integration of current transformers
- Versions with and without fuse monitoring
- Self-closing voltage testing holes
- Prepared for multiple lead seals
- Hinged terminal cover
- Cascadable connection space extension
- Simple conversion of the bolt or screw connections
- Contact hazard-proof fuse contacts with the top section dismantled
- Optional micro-switch monitoring of the cover switch position

NH slimline switch-disconnectors, size 00 to 3

- Disconnect and switch with one device
- Integral, user-independent quick-break contact ensures safe operation
- User-friendly cable connection from above or below
- Versions with and without fuse monitoring
- Integral switch position display
- No-drill contacting with clamping screw attachment
- Double-break allows de-energised fuse replacement

Busbar support (185 mm)

Connection adaptors Page 370 **Connection block** Page 371 **Component adaptors** Page 372 **NH slimline switch-disconnectors** Page 374

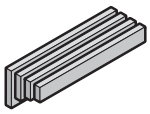
Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

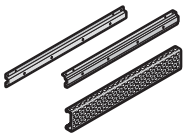
Colour:
- RAL 7035

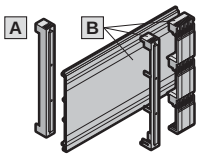
Supply includes:
- Including assembly components for contact hazard protection cover (base tray)

Bar centre distance mm	Packs of	185	Page
Rated operating voltage V, ~		1000, 3~ 1500 (DC)	
Number of poles		3-pole	
For busbar mm		40 x 10 60 x 10 80 x 10 100 x 10 120 x 10	
Model No.	2 pc(s).	**9677.500**	
Accessories			
Busbars E-Cu		see page	369
Contact hazard protection cover plate		see page	381
End cover	2 pc(s).	9677.600	380

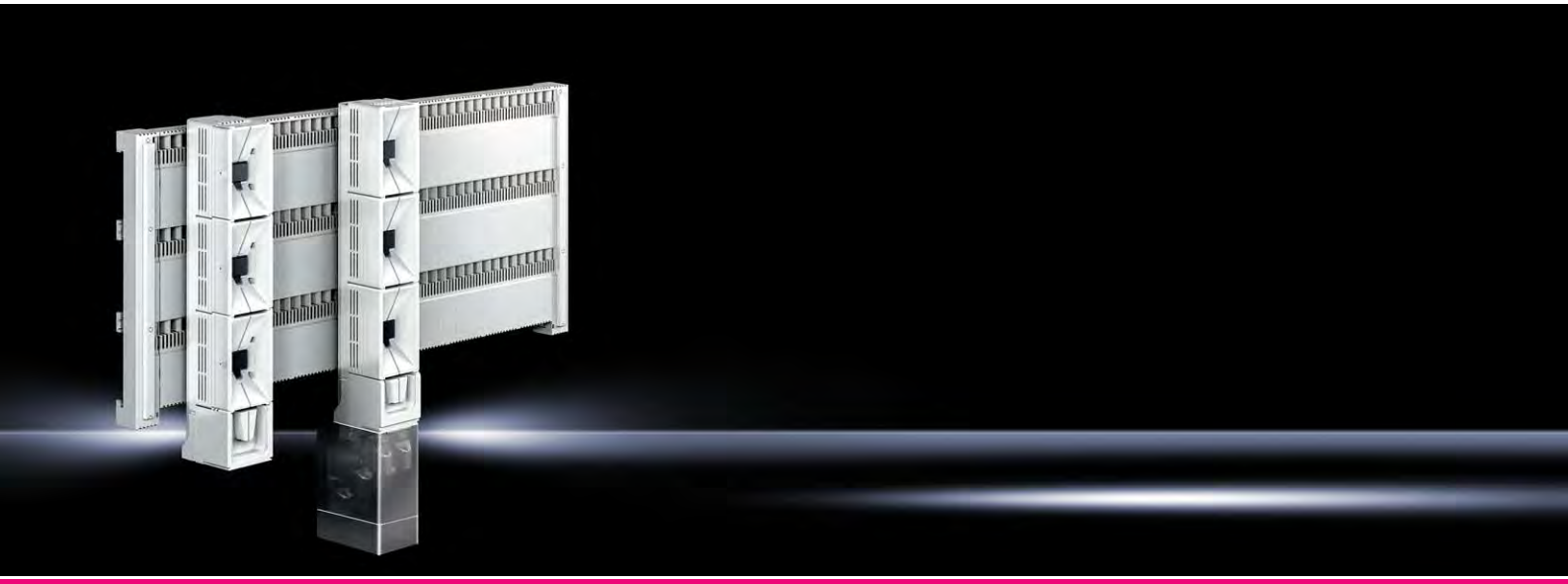
Busbar supports			
Note: Required quantity when using in the enclosure width – 600/800 mm: 2 pc(s). – 1000/1200 mm: 3 pc(s).			
Number of poles	Packs of	3-pole	Page
Bar centre distance mm		185	
Model No.	2 pc(s).	9677.500	368

Busbars E-Cu, length: 2400 mm/bar				
	Dimensions mm	Packs of	Model No.	Page
	40 x 10	3 pc(s).	3587.000	342
	60 x 10	2 pc(s).	3589.005	
	80 x 10	1 pc(s).	3590.005	
	100 x 10	1 pc(s).	3590.015	
	120 x 10	1 pc(s).	3590.020	
Accessories				
Busbar connector			see page	380

System attachment				
	For enclosure width mm	Packs of	Model No.	Page
	600	1 pc(s).	9677.511	380
	800	1 pc(s).	9677.521	
	1000	1 pc(s).	9677.531	
	1200	1 pc(s).	9677.541	
Accessories				
Punched section with mounting flange, 23 x 64 mm				
	For enclosure depth mm	Packs of	Model No.	Page
	500	4 pc(s).	8617.120	991
	600	4 pc(s).	8617.130	
	800	4 pc(s).	8617.140	

Contact hazard protection					
	Components	For enclosure width mm	Packs of	Model No.	Page
	A End covers l/r	–	2 pc(s).	9677.600	380
	B Cover plate, contact hazard protection (cover section, base tray, trim section)	600	1 pc(s).	9677.550	381
		800	1 pc(s).	9677.560	
		1000	1 pc(s).	9677.570	
		1200	1 pc(s).	9677.580	

Connection adaptors



Busbar system Page 368 **Connection block** Page 371 **Component adaptors** Page 372 **NH slimline switch-disconnectors** Page 374

Material:
- Chassis: Fibreglass-reinforced polyester
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Note:
- When using components on busbars with contact hazard protection cover, the contact terminal must be used

Rated current max. 800 – 1400 A

Rated current max. A	Packs of	800	1400	Page
Rated operating voltage V, ~		690, 3~	690, 3~	
Number of poles		3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	
Type of connection		Screw M12	Screw M12	
Connection of round conductors mm^2		6 - 240	6 - 300	
Width mm		100	100	
Height mm		665	960	
For bar systems with centre-to-centre spacing mm		185	185	
For bar thickness mm		10	10	
Model No.	1 pc(s).	**9677.900**	**9677.905**	
Product-specific scope of supply				
Contact hazard protection cover plate		–	■	
Accessories				
Contact terminal	3 pc(s).	9677.460	9677.460	383
Busbar terminal	3 pc(s).	9677.480	9677.480	384

Busbar system Page 368 **Connection adaptors** Page 370 **Component adaptors** Page 372 **NH slimline switch-disconnectors** Page 374

For connecting cables and laminated copper bars.

Material:
– Sheet steel, zinc-plated
– E-Cu, tin-plated

Rated current max. 1000 – 1600 A

Rated current max. A	Packs of	1000	1600	1600	Page
Rated operating voltage V, ~		690, 1~	690, 1~	690, 1~	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	–	Ring terminal M12	
Number of connection cables max.		2	–	4	
Connection of round conductors mm^2		185 - 300	–	240	
Clamping area for laminated copper bars (W x H) mm		–	80 x 20	–	
Width mm		98	98	98	
For bar thickness mm		10	10	10	
Model No.	1 pc(s).	**9677.915**	**9677.910**	**9677.920**	
Also required					
Contact hazard protection cover plate	1 pc(s).	9677.925	9677.925	9677.925	382

Component adaptors

Busbar system Page 368 **Connection adaptors** Page 370 **Connection block** Page 371 **NH slimline switch-disconnectors** Page 374

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Note:
- Cable outlet: Switch outlet or as outgoing cable from the switchgear
- Suitable for the use of switchgear with front screw terminal
- For mounting on busbar systems with or without cover section

Rated current max. 630 – 1600 A, clamping attachment

Rated current max. A	Packs of	630	1000	1600	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	
Installation type		Clamping attachment	Clamping attachment	Clamping attachment	
Cable outlet		Bottom	Bottom	Bottom	
For switchgear make (model)		ABB (Tmax T5) Eaton (NZM3) Schneider Electric (NSX630) Siemens (3VA23, 3VA24, 3VL4)	ABB (Tmax T7 - 800 A/1000 A) Eaton (NZM4 - 800 A/1000 A) Schneider Electric (NS - 800 A/1000 A) Siemens (VL1250/3VL7 - 1000 A)	ABB (Tmax T7 - 1250 A/1600 A) Eaton (NZM4 - 1250 A/1600 A) Schneider Electric (NS - 1250 A/1600 A) Siemens (VL1250/3VL7 - 1250 A, VL1600/3VL8 - 1600 A)	
Width mm		150	300	300	
Height mm		585	652	652	
For bar systems with centre-to-centre spacing mm		185	185	185	
For bar thickness mm		10	10	10	
Model No.	1 pc(s).	**9677.770**	**9677.700**	**9677.710**	
Product-specific scope of supply					
Connection straps		■	–	–	
Also required					
Connector kit		–	see page	see page	382
Contact hazard protection cover plate		–	see page	see page	382

Busbar system Page 368 **Connection adaptors** Page 370 **Connection block** Page 371 **NH slimline switch-disconnectors** Page 374

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Note:
- Cable outlet: Switch outlet or as outgoing cable from the switchgear
- Suitable for the use of switchgear with front screw terminal
- For attaching to busbars with holes. Please ensure that there is no cover section installed in the vicinity of the device.

Rated current max. 630 – 1600 A, screw attachment

Rated current max. A	Packs of	630	1000	1600	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	
Installation type		Screw attachment	Screw attachment	Screw attachment	
Cable outlet		Bottom	Bottom	Bottom	
For switchgear make (model)		ABB (Tmax T5) Eaton (NZM3) Schneider Electric (NSX630) Siemens (3VA23, 3VA24, 3VL4)	ABB (Tmax T7 - 800 A/1000 A) Eaton (NZM4 - 800 A/1000 A) Schneider Electric (NS - 800 A/1000 A) Siemens (VL1250/3VL7 - 1000 A)	ABB (Tmax T7 - 1250 A/1600 A) Eaton (NZM4 - 1250 A/1600 A) Schneider Electric (NS - 1250 A/1600 A) Siemens (VL1250/3VL7 - 1250 A, VL1600/3VL8 - 1600 A)	
Width mm		150	300	300	
Height mm		585	652	652	
For bar systems with centre-to-centre spacing mm		185	185	185	
For bar thickness mm		10	10	10	
Model No.	1 pc(s).	**9677.780**	**9677.705**	**9677.715**	
Product-specific scope of supply					
Connection straps		■	–	–	
Also required					
Connector kit		–	see page	see page	382
Contact hazard protection cover plate		–	see page	see page	382

NH slimline fuse-switch disconnectors

Busbar system Page 368 **Connection adaptors** Page 370 **Connection block** Page 371 **Component adaptors** Page 372

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Partially silver-plated hard copper

Colour:
- Chassis: RAL 7035
- Cover: RAL 7001
- Handle: RAL 7016

Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Note:
- When using components on busbars with contact hazard protection cover, the contact terminal must be used

Size 00 – 3, design single-pole, switchable

Size	Packs of	00	1	2	3	Page
Twin track		–	–	–	–	
Rated operating current max. A		160	250	400	630	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Screw M8	Bolt M12	Bolt M12	Bolt M12	
Connection of round conductors mm^2		1.5 - 95	6 - 240	6 - 240	6 - 240	
Width mm		50	100	100	100	
Height mm		670	670	670	670	
For converter installation		■	■	■	■	
For bar systems with centre-to-centre spacing mm		185	185	185	185	
For bar thickness mm		10	10	10	10	
Model No.	1 pc(s).	**9677.010**	**9677.110**	**9677.210**	**9677.310**	
Accessories						
Connection space cover	1 pc(s).	see page	9677.410	9677.410	9677.410	383
Contact terminal	3 pc(s).	9677.450	9677.460	9677.460	9677.460	383
Busbar terminal	3 pc(s).	9677.470	9677.480	9677.480	9677.480	384
Prism terminal	3 pc(s).	9677.420	–	–	–	384
V connection terminal	3 pc(s).	–	9677.430	9677.430	9677.440	384
Current converter	1 pc(s).	9677.810	see page	see page	see page	385
Cover	5 pc(s).	–	9677.415	9677.415	9677.415	385
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	9677.407	386
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	3071.000	358

Size 00 – 1, design 3-pole, switchable

Size	Packs of	00	00	1	Page
Twin track		–	–	–	
Rated operating current max. A		160	160	250	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	
Type of connection		Screw M8	Box terminal	Bolt M12	
Connection of round conductors mm²		1.5 - 95	1.5 - 95	6 - 240	
Width mm		50	50	100	
Height mm		670	670	670	
For converter installation		■	■	■	
For bar systems with centre-to-centre spacing mm		185	185	185	
For bar thickness mm		10	10	10	
Model No.	1 pc(s).	**9677.000**	**9677.025**	**9677.100**	
Accessories					
Connection space cover	1 pc(s).	see page	see page	9677.410	383
Contact terminal	3 pc(s).	9677.450	9677.450	9677.460	383
Busbar terminal	3 pc(s).	9677.470	9677.470	9677.480	384
Prism terminal	3 pc(s).	9677.420	–	–	384
V connection terminal	3 pc(s).	–	–	9677.430	384
Current converter	1 pc(s).	9677.810	9677.810	see page	385
Cover	5 pc(s).	–	–	9677.415	385
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	386
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	358

Size 2 – 3, design 3-pole, switchable

Size	Packs of	2	3	3	Page
Twin track		–	–	■	
Rated operating current max. A		400	630	1250	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Bottom	
Type of connection		Bolt M12	Bolt M12	Bolt M12	
Connection of round conductors mm²		6 - 240	6 - 240	6 - 240	
Width mm		100	100	200	
Height mm		670	670	670	
For converter installation		■	■	■	
For bar systems with centre-to-centre spacing mm		185	185	185	
For bar thickness mm		10	10	10	
Model No.	1 pc(s).	**9677.200**	**9677.300**	**9677.340**	
Accessories					
Connection space cover	1 pc(s).	9677.410	9677.410	–	383
Contact terminal	3 pc(s).	9677.460	9677.460	9677.460	383
Busbar terminal	3 pc(s).	9677.480	9677.480	9677.480	384
Prism terminal		–	–	–	
V connection terminal	3 pc(s).	9677.430	9677.440	–	384
Current converter		see page	see page	see page	385
Cover	5 pc(s).	9677.415	9677.415	–	385
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	386
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	358

NH slimline fuse-switch disconnectors

Busbar system Page 368 **Connection adaptors** Page 370 **Connection block** Page 371 **Component adaptors** Page 372

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Partially silver-plated hard copper

Colour:
- Chassis: RAL 7035
- Cover: RAL 7001
- Handle: RAL 7016

Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Note:
- When using components on busbars with contact hazard protection cover, the contact terminal must be used

Size 00 – 3, with electronic fuse monitoring

Size	Packs of	00	1	2	3	Page
Design		3-pole, switchable	3-pole, switchable	3-pole, switchable	3-pole, switchable	
Rated operating current max. A		160	250	400	630	
Rated operating voltage V, ~		400, 3~	400, 3~	400, 3~	400, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Screw M8	Bolt M12	Bolt M12	Bolt M12	
Connection of round conductors mm^2		1.5 - 95	6 - 240	6 - 240	6 - 240	
Width mm		50	100	100	100	
Height mm		830	830	830	830	
For converter installation		■	■	■	■	
For bar systems with centre-to-centre spacing mm		185	185	185	185	
For bar thickness mm		10	10	10	10	
Model No.	1 pc(s).	**9677.015**	**9677.115**	**9677.215**	**9677.315**	
Accessories						
Connection space cover	1 pc(s).	see page	9677.410	9677.410	9677.410	383
Contact terminal	3 pc(s).	9677.450	9677.460	9677.460	9677.460	383
Busbar terminal	3 pc(s).	9677.470	9677.480	9677.480	9677.480	384
Prism terminal	3 pc(s).	9677.420	–	–	–	384
V connection terminal	3 pc(s).	–	9677.430	9677.430	9677.440	384
Current converter	1 pc(s).	9677.810	see page	see page	see page	385
Cover	5 pc(s).	–	9677.415	9677.415	9677.415	385
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	9677.407	386
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	3071.000	358

Busbar system Page 368 **Connection adaptors** Page 370 **Connection block** Page 371 **Component adaptors** Page 372

Functions:
- Automatic quick-break contact allows operator-independent switching
- Double-break for reliable disconnection of the contacts

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Partially silver-plated hard copper

Colour:
- Chassis: RAL 7035
- Cover: RAL 7001
- Handle: RAL 7016

Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Size 00, design 3-pole, switchable

Size	Packs of	00	00	00	00	Page
Rated operating current max. A		160	160	160	160	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Installation type		Clamping attachment	Clamping attachment	Screw attachment	Screw attachment	
Cable outlet		Bottom	Top	Bottom	Top	
Type of connection		Screw M8	Screw M8	Screw M8	Screw M8	
Connection of round conductors mm^2		1.5 - 95	1.5 - 95	1.5 - 95	1.5 - 95	
Width mm		50	50	50	50	
Height mm		676	676	676	676	
For converter installation		■	■	■	■	
For bar systems with centre-to-centre spacing mm		185	185	185	185	
For bar thickness mm		10	10	10	10	
Model No.	1 pc(s).	**9677.060**	**9677.070**	**9677.065**	**9677.075**	
Accessories						
Connection space cover	1 pc(s).	9677.400	9677.400	9677.400	9677.400	383
Connection space cover, rear	1 pc(s).	9677.402	9677.402	9677.402	9677.402	386
Clamp-type terminal	3 pc(s).	9677.425	9677.425	9677.425	9677.425	386
Box terminal		–	–	–	–	
Contact terminal		–	–	–	–	
Current converter	1 pc(s).	9677.810	9677.810	9677.810	9677.810	385
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	9677.407	386
Micro-switch	1 pc(s).	9677.418	9677.418	9677.418	9677.418	387

NH slimline switch-disconnectors

Size 1 – 2, design 3-pole, switchable

Size	Packs of	1	1	2	Page
Rated operating current max. A		250	250	400	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	
Installation type		Screw attachment	Screw attachment	Screw attachment	
Cable outlet		Bottom	Top	Bottom	
Type of connection		Screw M12	Screw M12	Screw M12	
Connection of round conductors mm^2		6 - 240	6 - 240	6 - 240	
Width mm		100	100	100	
Height mm		772	772	772	
For converter installation		–	–	–	
For bar systems with centre-to-centre spacing mm		185	185	185	
For bar thickness mm		10	10	10	
Model No.	1 pc(s).	**9677.160**	**9677.165**	**9677.260**	
Accessories					
Connection space cover	1 pc(s).	9677.410	9677.410	9677.410	383
Connection space cover, rear	1 pc(s).	9677.412	9677.412	9677.412	386
Clamp-type terminal		–	–	–	
Box terminal		see page	see page	see page	387
Contact terminal	3 pc(s).	9677.485	9677.485	9677.485	387
Current converter		–	–	–	
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	386
Micro-switch	1 pc(s).	9677.418	9677.418	9677.418	387

Size 2 – 3, design 3-pole, switchable

Size	Packs of	2	3	3	Page
Rated operating current max. A		400	630	500	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	
Installation type		Screw attachment	Screw attachment	Screw attachment	
Cable outlet		Top	Bottom	Top	
Type of connection		Screw M12	Screw M12	Screw M12	
Connection of round conductors mm^2		6 - 240	6 - 240	6 - 240	
Width mm		100	100	100	
Height mm		772	772	772	
For converter installation		–	–	–	
For bar systems with centre-to-centre spacing mm		185	185	185	
For bar thickness mm		10	10	10	
Model No.	1 pc(s).	**9677.265**	**9677.360**	**9677.365**	
Accessories					
Connection space cover	1 pc(s).	9677.410	9677.410	9677.410	383
Connection space cover, rear	1 pc(s).	9677.412	9677.412	9677.412	386
Clamp-type terminal		–	–	–	
Box terminal		see page	see page	see page	387
Contact terminal	3 pc(s).	9677.485	9677.485	9677.485	387
Current converter		–	–	–	
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	386
Micro-switch	1 pc(s).	9677.418	9677.418	9677.418	387

Busbar system Page 368 **Connection adaptors** Page 370 **Connection block** Page 371 **Component adaptors** Page 372

Functions:
- Automatic quick-break contact allows operator-independent switching
- Double-break for reliable disconnection of the contacts

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0
- Contact tracks: Partially silver-plated hard copper

Colour:
- Chassis: RAL 7035
- Cover: RAL 7001
- Handle: RAL 7016

Basis of test:
- IEC/DIN EN 60 947-3
- DIN EN 60 269-2 (fuse inserts)

Size 00 – 3, with electronic fuse monitoring

Size	Packs of	00	00	1	2	3	Page
Design		3-pole, switchable	3-pole, switchable	3-pole, switchable	3-pole, switchable	3-pole, switchable	
Rated operating current max. A		160	160	250	400	630	
Rated operating voltage V, ~		400, 3~	400, 3~	400, 3~	400, 3~	400, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	
Installation type		Clamping attachment	Screw attachment	Screw attachment	Screw attachment	Screw attachment	
Cable outlet		Bottom	Bottom	Bottom	Bottom	Bottom	
Type of connection		Screw M8	Screw M8	Screw M12	Screw M12	Screw M12	
Connection of round conductors mm^2		1.5 - 95	1.5 - 95	6 - 240	6 - 240	6 - 240	
Width mm		50	50	100	100	100	
Height mm		860	860	941	941	941	
For converter installation		■	■	–	–	–	
For bar systems with centre-to-centre spacing mm		185	185	185	185	185	
For bar thickness mm		10	10	10	10	10	
Model No.	1 pc(s).	**9677.080**	**9677.085**	**9677.180**	**9677.280**	**9677.380**	
Accessories							
Connection space cover	1 pc(s).	9677.400	9677.400	9677.410	9677.410	9677.410	383
Connection space cover, rear	1 pc(s).	9677.402	9677.402	9677.412	9677.412	9677.412	386
Clamp-type terminal	3 pc(s).	9677.425	9677.425	–	–	–	386
Box terminal		–	–	see page	see page	see page	387
Contact terminal	3 pc(s).	–	–	9677.485	9677.485	9677.485	387
Current converter	1 pc(s).	9677.810	9677.810	–	–	–	385
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	9677.407	9677.407	386
Micro-switch	1 pc(s).	9677.418	9677.418	9677.418	9677.418	9677.418	387

Accessories

System attachment

for VX

For attaching busbar systems with 185 mm centre-to-centre spacing inside the enclosure.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– 2 system attachments (left/right)
– 2 punched sections without mounting flanges
– Assembly parts

For enclosure width mm	Product-specific scope of supply	Packs of	**Model No.**
600	–	1 pc(s).	**9677.511**
800	–	1 pc(s).	**9677.521**
1000	System attachment (centre)	1 pc(s).	**9677.531**
1200	System attachment (centre)	1 pc(s).	**9677.541**

Assembly instruction:

– For variable depth adjustment of the busbar system in the enclosure, the punched section with mounting flange 23 x 64 mm for VX (for the inner mounting level) is additionally required. Select according to the enclosure depth.

Accessories:

– Punched section with mounting flange, 23 x 64 mm, see page 991
– Captive nuts, see page 1002

Busbar connector

For connecting rectangular busbars, no drilling required.

Material:
– E-Cu

Surface finish:
– Tin-plated

Note:
– If using a 100 x 10 mm busbar, one 9677.610 and one 9677.620 are required

For busbar mm	Quantity required per bar	Length mm	Packs of	**Model No.**
40 x 10 80 x 10 100 x 10	1 2 1	40	1 pc(s).	**9677.610**
60 x 10 100 x 10 120 x 10	1 1 2	60	1 pc(s).	**9677.620**

End cover

for busbar supports

For contact hazard protection of the busbar system on the left and right. Attachment is on the busbar supports.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Supply includes:
– 1 end cover, left
– 1 end cover, right

To fit Model No.	Packs of	**Model No.**
9677.500	2 pc(s).	**9677.600**

Contact hazard protection cover plate

for 185 mm busbar system

For contact hazard protection of the busbar assembly at the rear and front.

Material:
- Base tray: Polyphenylene ether (PPE)
- End section: Polyphenylene ether (PPE)
- Cover section: Polyamide
- Centre cover: Polyamide

Colour:
- RAL 7035

Supply includes:
- Cover section, slotted, 50 mm wide
- Cover sections, slotted, 100 mm wide
- Base trays
- Trim sections

For enclosure width mm	Product-specific scope of supply	Packs of	**Model No.**
600	–	1 pc(s).	**9677.550**
800	–	1 pc(s).	**9677.560**
1000	Centre cover for busbar support	1 pc(s).	**9677.570**
1200	Centre cover for busbar support	1 pc(s).	**9677.580**

Accessories:

- Cover strip, see page 381

Cover strip

for contact hazard protection cover

For covering the front exposed contact slots in the cover section.

Material:
- Polyamide
- Fire protection corresponding to UL 94-V0

Colour:
- RAL 7035

Width mm	Height mm	To fit Model No.	Packs of	**Model No.**
100	67	9677.550/ 9677.560/ 9677.570/ 9677.580	3 pc(s).	**9677.650**

Contact hazard protection cover plate

for enclosure connection

For rear and front contact hazard protection of the connection points from enclosure to enclosure, with and without busbar connectors.

Material:
- Base tray: Polyphenylene ether (PPE)
- Cover section: Polyamide
- Centre cover: Polyamide

Colour:
- RAL 7035

Supply includes:
- 3 base trays
- 1 cover (front)
- 2 centre covers for busbar support

Packs of	**Model No.**
1 pc(s).	**9677.640**

Accessories

Contact hazard protection cover plate

for connection block
To cover the connector block at the front.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– RAL 7035

Width mm	Height mm	Packs of	**Model No.**
105	245	1 pc(s).	**9677.925**

Connector kit

for component adaptors
Preassembled connector kit for common brands of moulded-case circuit-breaker (MCCB). For electrical connection between the switch and the component adaptor (3-pole).

Material:
– E-Cu

Supply includes:
– Assembly parts

For switchgear make (model)	To fit Model No.	Packs of	**Model No.**
ABB (Tmax T7 - 800 A/1000 A) Schneider Electric (NS - 800 A/1000 A)	9677.700/9677.705	1 pc(s).	**9677.730**
Eaton (NZM4 - 800 A/1000 A) Siemens (VL1250/3VL7 - 1000 A)	9677.700/9677.705	1 pc(s).	**9677.740**
ABB (Tmax T7 - 1250 A/1600 A) Schneider Electric (NS - 1250 A/1600 A)	9677.710/9677.715	1 pc(s).	**9677.750**
Eaton (NZM4 - 1250 A/1600 A) Siemens (VL1250/3VL7 - 1250 A, VL1600/VL8 - 1600 A)	9677.710/9677.715	1 pc(s).	**9677.760**

Contact hazard protection cover plate

for component adaptors
To cover the connector kit at the front. The cover may also optionally be used for the switchgear cable connection. Open cable accesses in the contact hazard protection cover may be sealed using the side panels.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Supply includes:
– Side panels

For switchgear make (model)	Packs of	**Model No.**
–	1 pc(s).	**9677.790**
ABB (Tmax T7)	1 pc(s).	**9677.792**
Eaton (NZM 4)	1 pc(s).	**9677.794**
Siemens (3VL7/3VL8)	1 pc(s).	**9677.796**
Schneider Electric (NS1600)	1 pc(s).	**9677.798**

Connection space cover

for NH slimline fuse-switch-disconnectors/NH slimline switch-disconnectors

Cascadable connection space cover to guarantee contact hazard protection in the cable connection zone when using ring terminals with a long collar.

Material:
- Polycarbonate
- Fire protection corresponding to UL 94-V0

Note:
- When using NH slimline fuse-switch disconnectors with top cable outlet, use of the connection space cover is mandatory

For size	To fit Model No.	Cable outlet	Note on Model No.	Packs of	**Model No.**
00	9677.0X0/9677.0X5	Bottom	Also suitable for use with NH slimline switch-disconnectors with top cable outlet	1 pc(s).	**9677.400**
00	9677.000/9677.010/ 9677.015/9677.025	Top	–	1 pc(s).	**9677.405**
1 - 3	9677.1X0/9677.1X5/ 9677.2X0/9677.2X5/ 9677.300/9677.310/ 9677.3X5	Top/bottom	–	1 pc(s).	**9677.410**

Contact terminal

for NH slimline fuse-switch disconnectors/ connection adaptors

For mounting components on busbar systems with 185 mm centre-to-centre spacing, no drilling required.

Material:
- Sheet steel, zinc-plated
- E-Cu, tin-plated

Note:
- Only suitable for use on busbar system with contact hazard protection cover (cover section, slotted)

For size	Packs of	**Model No.**
00	3 pc(s).	**9677.450**
1 - 3 and connection adaptors	3 pc(s).	**9677.460**

Accessories

Busbar terminal

for NH slimline fuse-switch disconnectors/ connection adaptors
For mounting components on busbar systems with 185 mm centre-to-centre spacing, no drilling required.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Note:
– Can only be used on busbar systems without contact hazard protection cover (cover section, slotted)

For size	Packs of	**Model No.**
00	3 pc(s).	**9677.470**
1 - 3 and connection adaptors	3 pc(s).	**9677.480**

Prism terminal

for NH slimline fuse-switch disconnectors
For the direct connection of round conductors.

Material:
– Brass

Surface finish:
– Tin-plated

For size	To fit Model No.	Connection of round conductors mm^2	Packs of	**Model No.**
00	9677.000/ 9677.010/ 9677.015	10 - 95	3 pc(s).	**9677.420**

V connection terminal

for NH slimline fuse-switch disconnectors
For the direct connection of round conductors.

Material:
– Brass

Surface finish:
– Tin-plated

For size	To fit Model No.	Connection of round conductors mm^2	Packs of	**Model No.**
1/2	9677.100/ 9677.110/ 9677.115/ 9677.200/ 9677.210/ 9677.215	70 - 240	3 pc(s).	**9677.430**
3	9677.300/ 9677.310/ 9677.315	120 - 300	3 pc(s).	**9677.440**

Current converter

for NH slimline fuse-switch-disconnectors/ NH slimline switch-disconnectors

Compact design without altering the installation depth via mechanical integration into the NH slim-line switch-disconnector (185 mm centre-to-centre spacing); this allows space-saving assembly.

Material:
– Polyamide

Basis of test:
– IEC 60 044-1
– EN 60715
– DIN VDE 0414
– DIN 42 600-2

For size	00	1 - 3	1 - 3	1 - 3	1 - 3
To fit Model No.	9677.000/ 9677.010/ 9677.015/ 9677.025/ 9677.060/ 9677.065/ 9677.070/ 9677.075/ 9677.080/ 9677.085	9677.100/ 9677.110/ 9677.115/ 9677.200/ 9677.210/ 9677.215/ 9677.300/ 9677.310/ 9677.315/ 9677.340	9677.100/ 9677.110/ 9677.115/ 9677.200/ 9677.210/ 9677.215/ 9677.300/ 9677.310/ 9677.315/ 9677.340	9677.100/ 9677.110/ 9677.115/ 9677.200/ 9677.210/ 9677.215/ 9677.300/ 9677.310/ 9677.315/ 9677.340	9677.100/ 9677.110/ 9677.115/ 9677.200/ 9677.210/ 9677.215/ 9677.300/ 9677.310/ 9677.315/ 9677.340
Primary current A	150	200	250	400	600
Secondary current A	5	5	5	5	5
Accuracy class	1	1	1	1	1
Rated frequency Hz	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60
Insulation voltage kV	3	3	3	3	3
Insulating material category	E	B	B	B	B
Connection of round conductors mm^2	2.5 - 4	–	–	–	–
Type of connection	Screw terminals	Round conductor 2.5 mm^2 (length 1.5 m)	Round conductor 2.5 mm^2 (length 1.5 m)	Round conductor 2.5 mm^2 (length 1.5 m)	Round conductor 2.5 mm^2 (length 1.5 m)
Rated power input VA	2.5	1.5	2.5	2.5	2.5
Packs of	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).
Model No.	**9677.810**	**9677.840**	**9677.860**	**9677.870**	**9677.880**

Cover

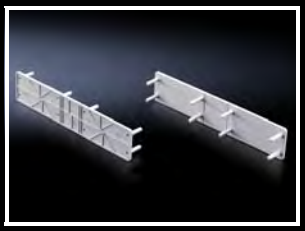
for NH slimline fuse-switch disconnectors

To increase rear contact hazard protection of the NH slimline fuse-switch-disconnector in the top section when mounting on a 185 mm bar system with contact hazard protection.

Material:
– Polyamide

Colour:
– RAL 7035

For size	Packs of	**Model No.**
1 - 3	5 pc(s).	**9677.415**



Accessories

Trim strip

for NH slimline fuse-switch-disconnectors/ NH slimline switch-disconnectors
To create a contact surface for individual use of a front contact hazard protection cover plate. Mounted on the side of the NH strip enclosure.

Material:
– Hard PVC

Colour:
– RAL 7035

For size	Packs of	Model No.
00 - 3	2 pc(s).	**9677.407**

Connection space cover, rear

for NH slimline switch-disconnectors
To guarantee contact hazard protection in the rear cable connection zone when using ring terminals with long press sleeves. In conjunction with the front connection space cover (9677.400/.410), this achieves all-round contact hazard protection of the connection space.

Material:
– Polyamide

Colour:
– RAL 7035

For size	Packs of	Model No.
00	1 pc(s).	**9677.402**
1 - 3	1 pc(s).	**9677.412**

Clamp-type terminal

for NH slimline switch-disconnectors
For the connection of round conductors.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

For size	Connection of round conductors mm^2	Packs of	Model No.
00	16 - 70	3 pc(s).	**9677.425**

Box terminal

for NH slimline switch-disconnectors
For converting NH slimline switch-disconnectors to box terminal connection for round conductors.

Material:
– Aluminium
– E-Cu, silver-plated

Supply includes:
– Connection space cover, rear

For size	Connection of round conductors mm^2	Packs of	Model No.
1 - 3	70 - 240	3 pc(s).	**9677.435**
1 - 3	185 - 300	3 pc(s).	**9677.445**

Contact terminal

for NH slimline switch-disconnectors
For mounting NH slimline switch-disconnectors on bar systems with 185 mm centre-to-centre spacing, no drilling required.

Material:
– Sheet steel, zinc-plated
– E-Cu, tin-plated
– Polyamide

Note:
– Only suitable for use on busbar system with contact hazard protection cover (cover section, slotted)

For size	Packs of	Model No.
1 - 3	3 pc(s).	**9677.485**

Micro-switch

for NH slimline switch-disconnectors
To indicate the switch position of the NH unit (cover).

Supply includes:
– Bracket

For size	Rated operating current max. A	Rated operating voltage V	Packs of	Model No.
00 - 3	5	250	1 pc(s).	**9677.418**

Busbar systems (100/185/150 mm)

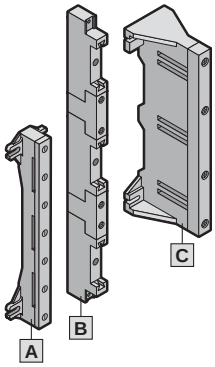
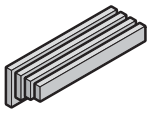
NH slimline fuse-switch disconnectors Page 335/374

Material: Busbar supports, inserts
- Fibreglass-reinforced, thermo-plastic polyester (PBT)
- Fire protection corresponding to UL 94-V0

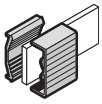
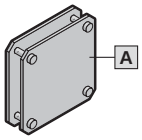
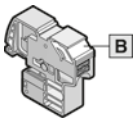
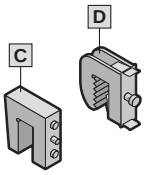
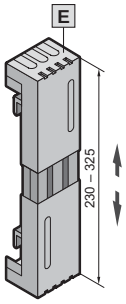
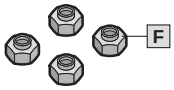
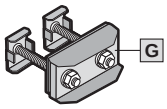
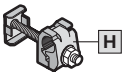
Colour:
- RAL 7035

Note:
- The base component of busbar support 3052.000 may also be used as a single-pole support

Busbar systems
1250 A (100 mm), 1600 A (185 mm), 2500 A (150 mm), 3000 A (150 mm)

Busbar supports, 3-pole			Packs of	Model No.				Page
				A 1250 A	B 1600 A	C 2500 A	C 3000 A	
	Width x height x depth mm			22 x 320 x 70	24 x 515 x 51	30 x 420 x 160	30 x 420 x 170	
	Max. bar accommodation mm			60 x 10	80 x 10	2 x 80 x 10	2 x 100 x 10	
	Inserts for a) Reducing the cross-section to mm b) Reducing the bar width in 10 mm increments			30 x 10 to 50 x 10 –	50/60 x 10 –	– ■	– ■	
	Bar centre distance mm			100	185	150	150	
	Packs of			4 pc(s).	2 pc(s).	2 pc(s).	2 pc(s).	
				3073.000	**3052.000**	**3055.000**	**3057.000**	
	Accessories							
	Inserts to adapt the bar dimensions	30 x 10 mm	24 pc(s).	**3074.000**	**–**	**–**	**–**	
		40 x 10 mm	24 pc(s).	**3075.000**	**–**	**–**	**–**	
		50 x 10 mm	24 pc(s).	**3076.000**	**3074.000**	**–**	**–**	
		60 x 10 mm	24 pc(s).	**–**	**3075.000**	**–**	**–**	
	Spacing piece for reducing the bar width in 10 mm increments		12 pc(s).	**–**	**–**	**3056.000**	**3056.000**	
Busbars E-Cu to DIN EN 13 601, length 2400 mm								
	Dimensions mm							342
	30 x 10		3 pc(s).	3586.005	–	–	–	
	40 x 10		3 pc(s).	3587.000	–	–	–	
	50 x 10		2 pc(s).	3588.005	3588.005	–	–	
	60 x 10		2 pc(s).	3589.005	3589.005	3589.005	3589.005	
	80 x 10		1 pc(s).	–	3590.005	3590.005	3590.005	
	100 x 10		1 pc(s).	–	–	–	3590.015	

Busbar systems (100/185/150 mm)

Contact hazard protection			Packs of	Model No. 1250 A	1600 A	2500 A	3000 A	Page
	End cover for busbar supports		10 pc(s).	**3083.000**	**–**	**–**	**–**	
	Busbar cover section, length 1 m for E-Cu	30 x 10 mm	10 pc(s).	3092.000	–	–	–	343
		40 x 10 to 60 x 10 mm	10 pc(s).	3085.000	3085.000	–	–	
Connection system, see page 349 (system accessories)								
	**A Plate clamps** for connecting laminated copper bars; no drilling required							
	For busbars mm	Clamping area for laminated copper bars mm						
	30 x 10	34 x 10	3 pc(s).	3554.000	–	–	–	350
	40 x 10	34 x 10	3 pc(s).	3559.000	–	–	–	
	50 x 10	34 x 10	3 pc(s).	3560.000	3560.000	–	–	
	50 x 10	54 x 10	3 pc(s).	3562.000	3562.000	–	–	
	60 x 10	34 x 10	3 pc(s).	3561.000	3561.000	–	–	
	60 x 10	54 x 10	3 pc(s).	3563.000	3563.000	–	–	
	80 x 10	65 x 10	3 pc(s).	–	3460.500	–	–	
	B Push-in conductor connection clamps for 10 mm bar thickness							
	Connection of round conductors mm^2	Clamping area for laminated copper bars mm						
	0.5 – 6	–	10 pc(s).	3455.505	3455.505	3455.505	3455.505	349
	1.5 – 16	–	10 pc(s).	3456.505	3456.505	3456.505	3456.505	
	Conductor connection clamps for 10 mm bar thickness							
	Connection of round conductors mm^2	Clamping area for laminated copper bars mm						
	C 1 – 4	–	15 pc(s).	3555.000	3555.000	3555.000	3555.000	
	1 – 4	–	15 pc(s).	3455.500	3455.500	3455.500	3455.500	
	2.5 – 16	8 x 8	15 pc(s).	3456.500	3456.500	–	–	349
	D 16 – 50	10.5 x 11	15 pc(s).	3457.500	3457.500	–	–	
	35 – 70	16.5 x 15	15 pc(s).	3458.500	3458.500	–	–	
	70 – 185	22.5 x 20	15 pc(s).	3459.500	3459.500	–	–	
	E System covers for conductor connection clamps and plate clamps							
	Width x depth mm							
	50 x 80		4 pc(s).	3086.000	–	–	–	
	100 x 80		4 pc(s).	3087.000	–	–	–	350
	100 x 110		4 pc(s).	3090.000	–	–	–	
	200 x 80		4 pc(s).	3088.000	–	–	–	
	200 x 110		4 pc(s).	3091.000	–	–	–	
	**F Inserted screw nuts M12,** self-holding nuts with knurled ring for mounting NH slimline fuse-switch disconnectors							
	For drilled holes in busbars Ø 14.5 mm		30 pc(s).	3591.060	3591.060	–	–	1039
	G Connection plate for laminated copper bars							
	For connecting laminated copper bars up to 2 x 10 x 100 x 1.0 mm to a busbar system with 2 bars per conductor	For laminated copper bars up to						
		2 x 10 x 32 x 1 mm	1 pc(s).	–	–	9676.747[1]	9676.747[1]	399
		2 x 10 x 63 x 1 mm	1 pc(s).	–	–	9676.748[1]	9676.748[1]	
		2 x 10 x 100 x 1 mm	1 pc(s).	–	–	9676.749[1]	9676.749[1]	
	**H Direct connection terminal**							
	For the direct connection of round conductors 95 – 300 mm^2 (single-wire and multi-wire)		1 pc(s).	–	–	9676.730[1]	9676.730[1]	398

[1] The required screw connection must be ordered separately according to the busbar width, see page 400

VX25 Ri4Power – Greater flexibility with interior installation

Variable adaptation

- Removal of the pre-punched knock-outs in the compartment dividers is burr-free, for flexible subdivision of the openings depending on the planned cable routing. This supports a continuous, direct power supply to the control and wiring sections.
- Cross member cutter 4054.870 for removing the pre-punched knock-outs, see page 586.

Flexible busbar routing

- The main busbars may optionally be routed in the roof section or central rear section, for enhanced planning and space flexibility.

Optimum continuity

- Because PE or N conductors are connected by directly screw-fastening the busbar supports to the frame section, this ensures an identical, consistent arrangement of bars in the rear or front enclosure area across all section types.

VX25 Ri4Power – Enhanced efficiency for bar systems

Significant reduction in parts

- The 25 mm pitch pattern allows busbar supports to be mounted directly onto the enclosure section. Just three screws is all you need. No further components are required.

A high level of standardisation

- Standard bars in sizes 30 x 10 mm and 50 x 10 mm are used.

Quick busbar connection

- The open busbar support can additionally accommodate the busbar connector, for simple, fast connection to the next section.

Flat-PLS

Busbar supports

for distribution busbar system
For assembling vertical distribution busbar systems (2 x 30 x 10 mm, 3-/4-pole, 70 mm centre-to-centre spacing) or busbar systems (30 x 5/10 mm, 3-/4-pole, 60 mm centre-to-centre spacing) with RiLine components in modular outgoing sections.

Material:
– Duroplastic
– Fire protection corresponding to UL 94-V0

Colour:
– Similar to RAL 9005

Supply includes:
– Assembly parts

For busbar mm	Bar centre distance mm	Packs of	**Model No.**
30 x 5/10 30 x 10	60 70	2 pc(s).	**9686.100**

Also required:
– Busbars E-Cu, see page 342

Accessories:
– End cover, see page 396

Busbar supports

for busbar entry (roof section)
For inserting 3- or 4-pole flat copper busbar systems into the roof section.

Material:
– Duroplastic
– Fire protection corresponding to UL 94-V0

Colour:
– Similar to RAL 9005

Supply includes:
– Assembly parts

For busbar mm	Bar centre distance mm	Packs of	**Model No.**
30 x 10	80	2 pc(s).	**9686.010**
50 x 10	80	2 pc(s).	**9686.040**

Also required:
– Busbars E-Cu, see page 342
– Captive nuts, see page 1002

Assembly instruction:
– For the installation of max. 4 busbars (sub-conductors) per phase
– Cage nut (M8) 4165.500 is required to attach the busbar supports to the enclosure section.

Accessories:
– End cover, see page 396

Busbar supports

for busbar baying (roof section)
For baying 3- or 4-pole flat copper busbar systems from enclosure to enclosure in the roof section.

Material:
– Duroplastic
– Fire protection corresponding to UL 94-V0

Colour:
– Similar to RAL 9005

Supply includes:
– Assembly parts

For busbar mm	Bar centre distance mm	Packs of	**Model No.**
30 x 10	80	2 pc(s).	**9686.000**
50 x 10	80	2 pc(s).	**9686.030**

Also required:
– Busbars E-Cu, see page 342
– Longitudinal connector E-Cu, see page 397
– Captive nuts, see page 1002

Assembly instruction:
– For the installation of max. 4 busbars (sub-conductors) per phase
– Cage nut (M8) 4165.500 is required to attach the busbar supports to the enclosure section.

Accessories:
– End cover, see page 396

Possible alternative:
– Busbar E-Cu, slotted, see page 396

Busbar supports

for busbar entry (rear section)
For inserting 3-pole flat copper busbar systems into the rear section of the enclosure.

Material:
– Duroplastic
– Fire protection corresponding to UL 94-V0

Colour:
– Similar to RAL 9005

Supply includes:
– Assembly parts

For busbar mm	Bar centre distance mm	Packs of	**Model No.**
50 x 10	185	2 pc(s).	**9686.070**

Also required:
– Busbars E-Cu, see page 342
– Captive nuts, see page 1002

Assembly instruction:
– For the installation of max. 4 busbars (sub-conductors) per phase
– Cage nut (M8) 4165.500 is required to attach the busbar supports to the enclosure section.

Accessories:
– End cover, see page 396

Flat-PLS

Busbar supports

for busbar baying (rear section)
For baying 3-pole flat copper busbar systems in the rear section from enclosure to enclosure.

Material:
– Duroplastic
– Fire protection corresponding to UL 94-V0

Colour:
– Similar to RAL 9005

Supply includes:
– Assembly parts

For busbar mm	Bar centre distance mm	Packs of	**Model No.**
50 x 10	185	2 pc(s).	**9686.060**

Also required:
– Busbars E-Cu, see page 342
– Longitudinal connector E-Cu, see page 397
– Captive nuts, see page 1002

Assembly instruction:
– For the installation of max. 4 busbars (sub-conductors) per phase
– Cage nut (M8) 4165.500 is required to attach the busbar supports to the enclosure section.

Accessories:
– End cover, see page 396

Possible alternative:
– Busbar E-Cu, slotted, see page 396

End cover

for busbar supports
For shock-hazard-protected covering of the busbar ends on the busbar holder.

Material:
– Polyamide
– Fire protection corresponding to UL 94-HB

Colour:
– Similar to RAL 9005

Supply includes:
– Assembly parts

Width mm	Height mm	Packs of	**Model No.**
50	147	3 pc(s).	**9686.080**

Busbar E-Cu, slotted

Busbars with integral punchings.

Material:
– E-Cu F30

Standards:
– DIN EN 13 601

Dimensions mm	Length mm	Hole diameter mm	Packs of	**Model No.**
50 x 10	385	11.5	1 pc(s).	**9684.004**
50 x 10	585	11.5	1 pc(s).	**9684.006**
50 x 10	785	11.5	1 pc(s).	**9684.008**
50 x 10	985	11.5	1 pc(s).	**9684.010**
50 x 10	1185	11.5	1 pc(s).	**9684.012**

Accessories:
– Longitudinal connector E-Cu, see page 397

Longitudinal connector E-Cu

for busbar baying
For connecting the main busbar system from enclosure to enclosure.

Material:
– E-Cu

Supply includes:
– Assembly parts

Design for main busbar 30 x 10 mm

Dimensions mm	Length mm	No. of sub-conductors per phase	Packs of	**Model No.**
35 x 10	195	1	1 pc(s).	**9686.210**
60 x 10	195	2 4	1 pc(s).	**9686.200**

Design for main busbar 50 x 10 mm

Dimensions mm	Length mm	No. of sub-conductors per phase	Packs of	**Model No.**
55 x 10	195	1	1 pc(s).	**9686.260**
100 x 10	195	2 4	1 pc(s).	**9686.250**

Connection system Flat-PLS

Busbar claw

for flat copper busbars
For mechanical stabilisation of busbar stacks. Suitable for 10 mm bar thickness.

Material:
– Stainless steel

For no. of busbars	Mounting dimensions mm	Packs of	**Model No.**
2	20	1 pc(s).	**9676.017**
4	20	1 pc(s).	**9676.019**

Also required:
– M10 screw, see page 400

Assembly instruction:
– The required screw length must be selected in line with the busbar width W, i.e. length = W + fastening measurement. Screws are not included with the supply.
– Busbar claw with threaded insert M10

Busbar claw

for connection components
For mechanical connection of connection components such as connection brackets. Suitable for 10 mm bar thickness.

Material:
– Stainless steel

For no. of busbars	Mounting dimensions mm	Packs of	**Model No.**
2	40	8 pc(s).	**9676.832**

Also required:
– M10 screw, see page 400

Assembly instruction:
– The required screw length must be selected in line with the busbar width W, i.e. length = W + fastening measurement. Screws are not included with the supply.
– Busbar claw with threaded insert M10

Direct connection terminal

for round conductors
For connecting round conductors to a busbar distributor system made from flat copper. Suitable for 10 mm bar thickness.

Material:
– Connection clamp: Brass, tin-plated
– Busbar claw: Stainless steel

Supply includes:
– Assembly parts (excluding screws)

No. of sub-conductors per phase	Connection of round conductors mm^2	Mounting dimensions mm	Packs of	**Model No.**
2	95 - 300	60	1 pc(s).	**9676.730**

Also required:
– M10 screw, see page 400

Assembly instruction:
– The required screw length must be selected in line with the busbar width W, i.e. length = W + fastening measurement. Screws are not included with the supply.
– Busbar claw with threaded insert M10

Connection plate

for laminated copper bars

For connecting laminated copper bars to a busbar distributor system made from flat copper. Suitable for 10 mm bar thickness.

Material:
- Connection plate: E-Cu
- Thrust piece: Stainless steel
- Busbar claw: Stainless steel

Supply includes:
- Assembly parts (excluding screws)

No. of sub-conductors per phase	Clamping area for laminated copper bars (W x H) mm	Mounting dimensions mm	Packs of	**Model No.**
2	32 x 20	50	1 pc(s).	**9676.747**
2	63 x 20	50	1 pc(s).	**9676.748**
2	100 x 20	50	1 pc(s).	**9676.749**

Also required:
- M10 screw, see page 400

Assembly instruction:
- The required screw length must be selected in line with the busbar width W, i.e. length = W + fastening measurement. Screws are not included with the supply.
- Busbar claw with threaded insert M10

Accessories:
- Laminated copper bar, see page 346

Connection plate

for ring terminals

For connecting ring terminals to a busbar distributor system made from flat copper. Suitable for 10 mm bar thickness.

Material:
- Connection plate: E-Cu, nickel-plated
- Busbar claw: Stainless steel

Supply includes:
- Assembly parts (excluding screws)

Thread	No. of sub-con-ductors per phase	Mounting dimen-sions mm	Product-specific scope of supply	Packs of	**Model No.**
M10	2	40	–	1 pc(s).	**9676.710**
M12	2	20	Grub screw	1 pc(s).	**9676.700**

Also required:
- M10 screw, see page 400

Assembly instruction:
- The required screw length must be selected in line with the busbar width W, i.e. length = W + fastening measurement. Screws are not included with the supply.
- Busbar claw with threaded insert M10

Connection system Flat-PLS

Connection set

for Flat-PLS
For attaching NH slimline fuse-switch disconnectors and NH slimline switch-disconnectors (185 mm) or for connecting busbars. Suitable for busbar system with flat copper 50 x 10 mm

Material:
– Sheet steel, zinc-plated

Note:
– Screws are not included with the supply

Thread	For no. of busbars	Packs of	**Model No.**
M8	2 4	3 pc(s).	**9686.800**
M10	2 4	3 pc(s).	**9686.810**

Assembly instruction:

– The connection set may only be used with top-mounting components with screw fastening
– NH slimline fuse-switch disconnectors:
The required screw length when using busbars is 2 x 50 x 10 mm = 35 mm and 4 x 50 x 10 mm = 55 mm
– NH slimline switch-disconnectors: Only suitable for attaching to busbars 2 x 50 x 10 mm
– When using 4 busbars per phase, a filler piece is additionally required

Accessories:

– M10 screw, see page 400
– Filler piece, see page 400

Filler piece

for connection set
When using top-mounting components on a busbar system with 4 busbars per phase, a filler piece is additionally required between the bars.

Material:
– E-Cu

Dimensions mm	Length mm	Packs of	**Model No.**
25 x 10	110	3 pc(s).	**9686.820**

M10 screw

For attaching the busbar claw or connection components to a flat copper busbar system.

Material:
– Stainless steel

Screw design mm	Packs of	**Model No.**
M10 x 60	8 pc(s).	**9676.806**
M10 x 70	8 pc(s).	**9676.807**
M10 x 80	8 pc(s).	**9676.808**
M10 x 90	8 pc(s).	**9676.809**
M10 x 100	8 pc(s).	**9676.810**
M10 x 110	8 pc(s).	**9676.811**
M10 x 120	8 pc(s).	**9676.812**
M10 x 130	8 pc(s).	**9676.813**
M10 x 140	8 pc(s).	**9676.814**
M10 x 150	8 pc(s).	**9676.815**
M10 x 160	8 pc(s).	**9676.816**
M10 x 170	8 pc(s).	**9676.817**
M10 x 190	8 pc(s).	**9676.819**

End supports

for Maxi-PLS busbars
For attaching Maxi-PLS busbars when used as a cable connection system. The stepped configuration ensures simple cable installation.

Material:
– Polyamide
– Fire protection corresponding to UL 94-V0

Colour:
– Similar to RAL 9011

Supply includes:
– Assembly parts

For system	Packs of	Model No.
Maxi-PLS 45 S Maxi-PLS 45	2 pc(s).	**9649.010**
Maxi-PLS 60	2 pc(s).	**9659.010**

Also required:

– Maxi-PLS busbar, E-Cu
for Maxi-PLS 45 S system, see page 401
– Maxi-PLS busbar, E-Cu
for Maxi-PLS 45 system, see page 401
– Maxi-PLS busbar, E-Cu
for Maxi-PLS 60 system, see page 402

Maxi-PLS busbar, E-Cu

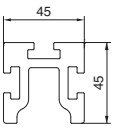
for Maxi-PLS 45 S system
For assembling cable connection systems.

Material:
– E-Cu

Note:
– May be cut individually to required length

Cross-section 974 mm²

For enclosure width mm	Length mm	Packs of	Model No.
600	451	1 pc(s).	**9640.207**
800	651	1 pc(s).	**9640.237**
1000	851	1 pc(s).	**9640.267**
1200	1051	1 pc(s).	**9640.297**
–	2400	3 pc(s).	**9640.365**



Maxi-PLS 45 S

Maxi-PLS busbar, E-Cu

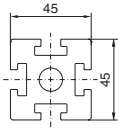
for Maxi-PLS 45 system
For assembling cable connection systems.

Material:
– E-Cu

Note:
– May be cut individually to required length

Cross-section 1354 mm²

For enclosure width mm	Length mm	Packs of	Model No.
600	451	1 pc(s).	**9640.202**
800	651	1 pc(s).	**9640.232**
1000	851	1 pc(s).	**9640.262**
1200	1051	1 pc(s).	**9640.292**
–	2400	3 pc(s).	**9640.360**
–	2400	4 pc(s).	**9649.360**



Maxi-PLS 45

Maxi-PLS

Maxi-PLS busbar, E-Cu

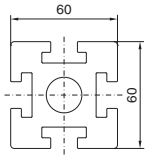
for Maxi-PLS 60 system
For assembling cable connection systems.

Material:
– E-Cu

Note:
– May be cut individually to required length

Cross-section 2323 mm²

For enclosure width mm	Length mm	Packs of	**Model No.**
600	451	1 pc(s).	**9650.202**
800	651	1 pc(s).	**9650.232**
1000	851	1 pc(s).	**9650.262**
1200	1051	1 pc(s).	**9650.292**
–	2400	3 pc(s).	**9650.360**
–	2400	4 pc(s).	**9659.360**



Maxi-PLS 60

Connection system Maxi-PLS

Connection clamp

for round conductors
For the connection of round conductors.

Material:
– Connection clamp: Brass, tin-plated
– Terminal stud: Steel, zinc-plated
– Sliding block: E-Cu

Supply includes:
– Connection clamp
– Terminal studs
– Sliding block
– Assembly parts

For system	Connection of round conductors mm^2	Packs of	**Model No.**
Maxi-PLS 45 S/45	95 - 300	1 pc(s).	**9640.325**
Maxi-PLS 60	95 - 300	1 pc(s).	**9650.325**

Connection plate

for laminated copper bars
For the connection of laminated flat copper bars.

Material:
– Connection plate: E-Cu
– Thrust piece: Stainless steel

Supply includes:
– Assembly parts

For system	Clamping area for laminated copper bars (W x H) mm	Packs of	**Model No.**
Maxi-PLS 45 S/45	32 x 20	3 pc(s).	**9640.330**
Maxi-PLS 45 S/45	63 x 20	3 pc(s).	**9640.340**
Maxi-PLS 45 S/45	100 x 20	3 pc(s).	**9640.350**
Maxi-PLS 60	32 x 20	3 pc(s).	**9650.330**
Maxi-PLS 60	63 x 20	3 pc(s).	**9650.340**

Accessories:
– Laminated copper bar, see page 346

Terminal studs

for Maxi-PLS
For connecting cables with ring terminals.

Material:
– Terminal stud: Steel, zinc-plated
– Sliding block: E-Cu

Supply includes:
– Terminal studs
– Sliding blocks
– Assembly parts

For system	Thread	Thread length mm	Packs of	**Model No.**
Maxi-PLS 45 S/45	M12	30	3 pc(s).	**9640.370**
Maxi-PLS 45 S/45	M16	30	3 pc(s).	**9640.380**
Maxi-PLS 60	M12	32	3 pc(s).	**9650.370**
Maxi-PLS 60	M16	32	3 pc(s).	**9650.380**

Sliding block

for Maxi-PLS busbars
For attaching flat copper bars and connection components to Maxi-PLS busbars. For sliding into the busbar section at the side and tightening the threaded bolts.

Material:
– E-Cu

For system	Length mm	Thread	Packs of	**Model No.**
Maxi-PLS 45 S/45	20	M8	15 pc(s).	**9640.970**
Maxi-PLS 45 S/45	25	M10	15 pc(s).	**9640.980**
Maxi-PLS 60	25	M10	15 pc(s).	**9650.980**
Maxi-PLS 60	35	M12	15 pc(s).	**9650.990**

Also required:
– Threaded bolts, see page 404

Connection system Maxi-PLS

Sliding nut

for Maxi-PLS busbars
For attaching flat copper bars and connection components to Maxi-PLS busbars. For sliding into the busbar section retrospectively and tightening the threaded bolts.

Material:
– E-Cu

For system	Thread	Packs of	Model No.
Maxi-PLS 45 S/45	M6	15 pc(s).	**9640.900**
Maxi-PLS 45 S/45	M8	15 pc(s).	**9640.910**
Maxi-PLS 45 S/45	M10	15 pc(s).	**9640.920**
Maxi-PLS 60	M6	15 pc(s).	**9650.900**
Maxi-PLS 60	M8	3 pc(s).	**9650.905**
Maxi-PLS 60	M10	15 pc(s).	**9650.910**
Maxi-PLS 60	M12	15 pc(s).	**9650.920**

Also required:
– Threaded bolts, see page 404

Threaded bolts

for sliding blocks and sliding nuts
For individual connection options.

Material:
– Steel

Supply includes:
– Assembly parts

Also required:
– Sliding block, see page 403
– Sliding nut, see page 404

For system	Thread	Thread length mm	Packs of	Model No.
Maxi-PLS 45 S/45 Maxi-PLS 60	M6	35	6 pc(s).	**9640.930**
Maxi-PLS 45 S/45 Maxi-PLS 60	M8	35	6 pc(s).	**9640.940**
Maxi-PLS 45 S/45 Maxi-PLS 60	M10	35	8 pc(s).	**9676.971**
Maxi-PLS 45 S/45 Maxi-PLS 60	M10	45	8 pc(s).	**9676.972**
Maxi-PLS 45 S/45 Maxi-PLS 60	M10	55	8 pc(s).	**9676.973**
Maxi-PLS 45 S/45 Maxi-PLS 60	M10	70	8 pc(s).	**9676.976**
Maxi-PLS 45 S/45 Maxi-PLS 60	M10	80	8 pc(s).	**9676.977**
Maxi-PLS 60	M12	40	8 pc(s).	**9676.981**
Maxi-PLS 60	M12	50	8 pc(s).	**9676.982**
Maxi-PLS 60	M12	60	8 pc(s).	**9676.983**
Maxi-PLS 60	M12	70	8 pc(s).	**9676.986**
Maxi-PLS 60	M12	80	8 pc(s).	**9676.987**

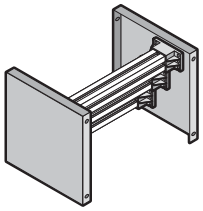
Compact infeed

for Maxi-PLS
For individual use as a 3-pole cable connection bar system. Direct mounting on the mounting plate or punched section without mounting flange.

Material:
– End support: Polyamide (PA 6)
– Retaining plate: Sheet steel, zinc-plated
– Punched rail: Sheet steel, zinc-plated

Supply includes:
– 6 end supports
– 2 support plates for end supports
– 1 punched rail 23 x 23 mm (length 495 mm)
– Assembly parts

For system	Packs of	Model No.
Maxi-PLS 45 S/45	1 pc(s).	**9660.980**



Accessories for connection components

Screw

for connection components
For connecting components such as connection brackets and connection kits.

Material:
– Sheet steel, zinc-plated

Supply includes:
– 8 nuts and 16 washers

Screw design mm	Packs of	Model No.
M10 x 40	8 pc(s).	**9676.966**
M10 x 45	8 pc(s).	**9686.845**
M10 x 55	8 pc(s).	**9686.865**
M10 x 60	8 pc(s).	**9676.967**
M10 x 80	8 pc(s).	**9676.968**

Support set (stabiliser)

for connector kit
To support connector kits, top or bottom, for open air circuit-breakers (ACB).

Material:
– Stabiliser: Fibreglass-reinforced polyester
– Angle bracket: Sheet steel

Supply includes:
– 4 plastic stabilisers
– 2 angle brackets
– Assembly parts

Note:
– The angle brackets included with the supply are only suitable for use in TS enclosures
– When using the support set in VX enclosures, angle bracket 9686.495 is additionally required

Packs of	Model No.
1 pc(s).	**9660.205**

Angle bracket

for support set (stabiliser)
For positioning and securing the holder set (stabiliser) to the enclosure section.

Material:
– Sheet steel, zinc-plated

Supply includes:
– Assembly parts

Note:
– An angle bracket consists of one bracket to be fastened to the enclosure section or the compartment side panel, and one bracket for mounting plastic stabilisers

Packs of	Model No.
4 pc(s).	**9686.495**

Connection components

Connection components for air circuit-breakers and busbar connections

For connecting air circuit-breakers (ACB) or for connecting horizontal and vertical busbar systems (T-connectors).

Material:
– E-Cu

Note:
– The design code required for the configuration code is generated by the VX25 Rittal Power Engineering software (www.rittal.com/rpevx25/)
– Please quote the complete configuration code on all enquiries and orders (see example)

Configuration code = order number + design code	Description	Section types
Model No. **9686.912** + design code	Connector kit for top/bottom	Air circuit-breakers (ACB), coupling section, cable transition section
Model No. **9686.924** + design code	T-connector kit for top/bottom	Modular outgoing feeder section, fuse-switch disconnector section horizontal/vertical, multi-terminal busbar section, riser section, corner section

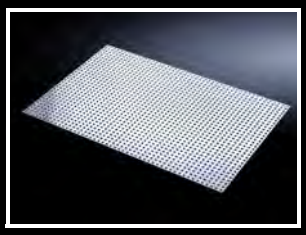
Example of creating the configuration code

1. Select section type “air circuit-breaker”

2. Select switch and manufacturer and enter other technical parameters, such as busbar position, number of poles, rated current etc.

3. The connector kit data is output using the "Determine prices and weights" function. Design code and associated drawings (.dwg, .pdf) are available via the "Download" function. The configuration code for the enquiry or order will then look like this: Air circuit-breaker (ACB) Model No. 9686.912 + 8068A1A4H3V661O4-70

Form 1



Cover plate

Slotted
To cover live parts and comply with the internal protection category IP 2X and IP XXB within low-voltage switchgear and controlgear. Integral vent holes allow convection inside a system.

Material:
– PVC

Width mm	Height mm	Packs of	**Model No.**
1200	800	1 pc(s).	**9674.990**

Accessories:
– Mounting bracket, see page 408

Mounting bracket

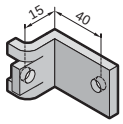
for contact hazard protection cover
For the attachment of contact hazard protection covers. Tapped hole M6.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– Assembly screws

Packs of	**Model No.**
24 pc(s).	**9660.090**



Contact hazard protection cover plate

for enclosures with NH slimline fuse-switch disconnectors

To cover outgoing sections with NH slimline fuse-switch disconnectors and busbar system in the rear enclosure section so that they are safe from finger contact (IP 2X).

Material:
– Sheet steel, 1.5 mm

Surface finish:
– Zinc-plated

Supply includes:
– 4 side panels (left/right side)
– 2 side panels (top/bottom)
– Assembly parts

Note:
– The specified installation width when using the contact hazard protection cover only applies when using busbar supports 9686.060/9686.070

For enclosure width mm	Free installation width when using Flat-PLS mm	Packs of	**Model No.**
600	400	1 pc(s).	**9684.960**
800	600	1 pc(s).	**9684.980**
1000	800	1 pc(s).	**9684.900**
1200	1000	1 pc(s).	**9684.920**

Accessories:

– Blanking cover, see page 409

Blanking cover

for contact hazard protection cover

To cover free NH slimline fuse-switch disconnector slots.

Material:
– Sheet steel, 1.5 mm

Surface finish:
– Zinc-plated

Supply includes:
– 2 covers
– 2 cover brackets
– Assembly parts

Width mm	Packs of	**Model No.**
50	2 pc(s).	**9684.990**

Form 1-4

Compartment side panel

for VX
Side divider panel for attaching partial mounting plates and compartment dividers.

Material:
– Sheet steel, 1.5 mm

Surface finish:
– Zinc-plated

Supply includes:
– Assembly parts

For busbar system assembly in the rear section

For enclosure height mm	For enclosure depth mm	Height mm	Depth mm	Packs of	Model No.
2000	600	1881	538	2 pc(s).	**9683.006**
2000	800	1881	738	2 pc(s).	**9683.008**

For busbar system assembly in the roof section

For enclosure height mm	For enclosure depth mm	Height mm	Depth mm	Packs of	Model No.
2000	600	1731	538	2 pc(s).	**9683.016**
2000	800	1731	738	2 pc(s).	**9683.018**
2200	600	1931	538	2 pc(s).	**9683.036**
2200	800	1931	738	2 pc(s).	**9683.038**

Accessories:

– Plastic gland plate, see page 410
– Compartment divider, see page 411
– Partial mounting plate, see page 413

Plastic gland plate

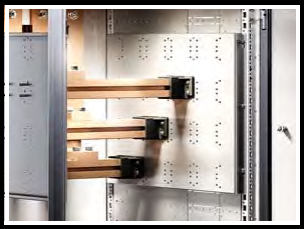
for compartment side panel
For closing cable entry openings.

Material:
– PVC, 3 mm

Colour:
– Similar to RAL 7045

Supply includes:
– Assembly parts

Width mm	Height mm	Packs of	Model No.
152	48	10 pc(s).	**9683.040**



Retaining plate

for cable connection space
For mounting Maxi-PLS busbars including end supports in the cable connection area.

Material:
– Sheet steel, 1.5 mm

Surface finish:
– Zinc-plated

Supply includes:
– Assembly parts

For enclosure depth mm	Height mm	Depth mm	Packs of	Model No.
600	375	543	2 pc(s).	**9683.200**
800	375	743	2 pc(s).	**9683.210**

Also required:

– End supports, see page 401

Terminal box

for modular outgoing section

For shielding the connections (terminals) of the compartment, busbar space and cable chamber in accordance with Form 4b to IEC 61 439-2.

Material:
- Lid and cover: Sheet steel, 1.5 mm
- Cable retainer: Sheet steel

Surface finish:
- Lid and cover: Zinc-plated

Supply includes:
- 2 lids (top/bottom)
- 2 covers (front/rear)
- 2 cable retainers
- Assembly parts

For enclosure depth mm	For compartment height mm	Packs of	Model No.
600 800	150	1 pc(s).	**9683.701**
600 800	200	1 pc(s).	**9683.702**
600 800	300	1 pc(s).	**9683.703**
600 800	400	1 pc(s).	**9683.704**
600 800	600	1 pc(s).	**9683.706**

Also required:
- Compartment side panel, see page 410

Assembly instruction:
- The terminal boxes are externally mounted on the compartment side panel in the cable chamber, to match the heights of the compartments
- If necessary, a clamping strip may be mounted on the cable retainer included with the supply

Compartment divider

for VX

For the horizontal separation of compartments. In combination with the side panels, this creates Form separation to Form 1 to 4. For attachment to the compartment side panel or the enclosure section. The integral cut-outs with pre-punched knock-out option are used for the vertical routing of control lines or cable ducts and for the routing of distribution busbars or connection kits.

Design:
- With louvres

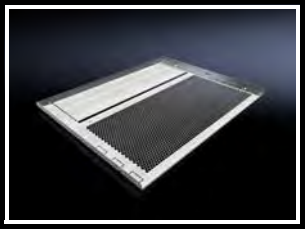
Material:
- Sheet steel, 1.5 mm

Surface finish:
- Zinc-plated

Supply includes:
- Assembly parts

Assembly instruction:
- For assembling compartments as internal Form separation, compartment side panels are required

Accessories:
- Plastic gland plate, see page 412
- Compartment side panel, see page 410



For enclosure width mm	For enclosure depth mm	Width mm	Depth mm	Packs of	Model No.
400	400	311	380	2 pc(s).	**9683.444**
400	600	311	580	2 pc(s).	**9683.446**
400	800	311	780	2 pc(s).	**9683.448**
600	400	511	380	2 pc(s).	**9683.464**
600	600	511	580	2 pc(s).	**9683.466**
600	800	511	780	2 pc(s).	**9683.468**
800	400	711	380	2 pc(s).	**9683.484**
800	600	711	580	2 pc(s).	**9683.486**
800	800	711	780	2 pc(s).	**9683.488**
1000	600	911	580	2 pc(s).	**9683.406**
1000	800	911	780	2 pc(s).	**9683.408**
1200	600	1111	580	2 pc(s).	**9683.426**
1200	800	1111	780	2 pc(s).	**9683.428**

Compartment configuration

Form 1-4

Plastic gland plate

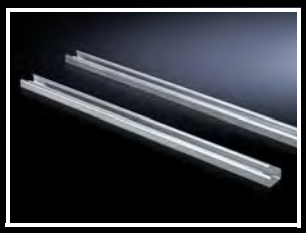
for compartment divider
To cover the compartment divider with gland.

Material:
– ABS

Colour:
– Similar to RAL 9005

Supply includes:
– Assembly parts

Width mm	Height mm	Packs of	**Model No.**
250	251	2 pc(s).	**9683.504**
450	251	2 pc(s).	**9683.506**
650	251	2 pc(s).	**9683.508**
850	251	2 pc(s).	**9683.500**



Air circuit-breaker support bar

For the configuration of air circuit-breakers (ACB) in compartments.

Material:
– Sheet steel, 2.5 mm

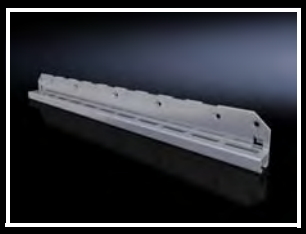
Surface finish:
– Zinc-plated

Supply includes:
– Assembly parts

For enclosure width mm	Length mm	Packs of	**Model No.**
400	296	2 pc(s).	**9683.304**
600	496	2 pc(s).	**9683.306**
800	696	2 pc(s).	**9683.308**
1000	896	2 pc(s).	**9683.310**
1200	1096	2 pc(s).	**9683.312**

! Also required:

– Mounting bracket, see page 412



Mounting bracket

for air circuit-breaker support rail
For attaching the air circuit-breaker support rail to the enclosure section or compartment side panel.

Material:
– Sheet steel, 2.5 mm

Surface finish:
– Zinc-plated

Supply includes:
– Assembly parts

For enclosure depth mm	Packs of	**Model No.**
600	2 pc(s).	**9683.326**
800	2 pc(s).	**9683.328**

Partial mounting plate

for compartment side panel

For direct attachment to the compartment side panel for internal compartmentalisation. Universal interior installation with switchgear and controlgear. Creation of additional mounting levels. In combination with compartment dividers and side panel, internal compartmentalisation in accordance with Form 1 to 4 is possible.

Material:
– Sheet steel, 2 mm

Surface finish:
– Zinc-plated

Supply includes:
– Angle brackets and assembly parts

Design Solid

For enclosure width mm	For compartment height mm	Width mm	Height mm	Packs of	**Model No.**
400	200	302	193	1 pc(s).	**9683.642**
400	300	302	293	1 pc(s).	**9683.643**
400	400	302	393	1 pc(s).	**9683.644**
400	600	302	593	1 pc(s).	**9683.646**
400	800	302	793	1 pc(s).	**9683.648**
600	1000	502	993	1 pc(s).	**9683.660**
600	150	502	143	1 pc(s).	**9683.661**
600	200	502	193	1 pc(s).	**9683.662**
600	300	502	293	1 pc(s).	**9683.663**
600	400	502	393	1 pc(s).	**9683.664**
600	600	502	593	1 pc(s).	**9683.666**
600	800	502	793	1 pc(s).	**9683.668**
800	1000	702	993	1 pc(s).	**9683.680**
800	150	702	143	1 pc(s).	**9683.681**
800	200	702	193	1 pc(s).	**9683.682**
800	300	702	293	1 pc(s).	**9683.683**
800	400	702	393	1 pc(s).	**9683.684**
800	600	702	593	1 pc(s).	**9683.686**
800	800	702	793	1 pc(s).	**9683.688**
1000	400	902	393	1 pc(s).	**9683.604**
1000	600	902	593	1 pc(s).	**9683.606**
1000	800	902	793	1 pc(s).	**9683.608**
1200	400	1102	393	1 pc(s).	**9683.624**
1200	600	1102	593	1 pc(s).	**9683.626**
1200	800	1102	793	1 pc(s).	**9683.628**

Design with gland made from insulating material

For enclosure width mm	For compartment height mm	Width mm	Height mm	Packs of	**Model No.**
600	150	502	143	1 pc(s).	**9683.561**
600	200	502	193	1 pc(s).	**9683.562**
600	300	502	293	1 pc(s).	**9683.563**
600	400	502	393	1 pc(s).	**9683.564**

Form 1-4

Support frame

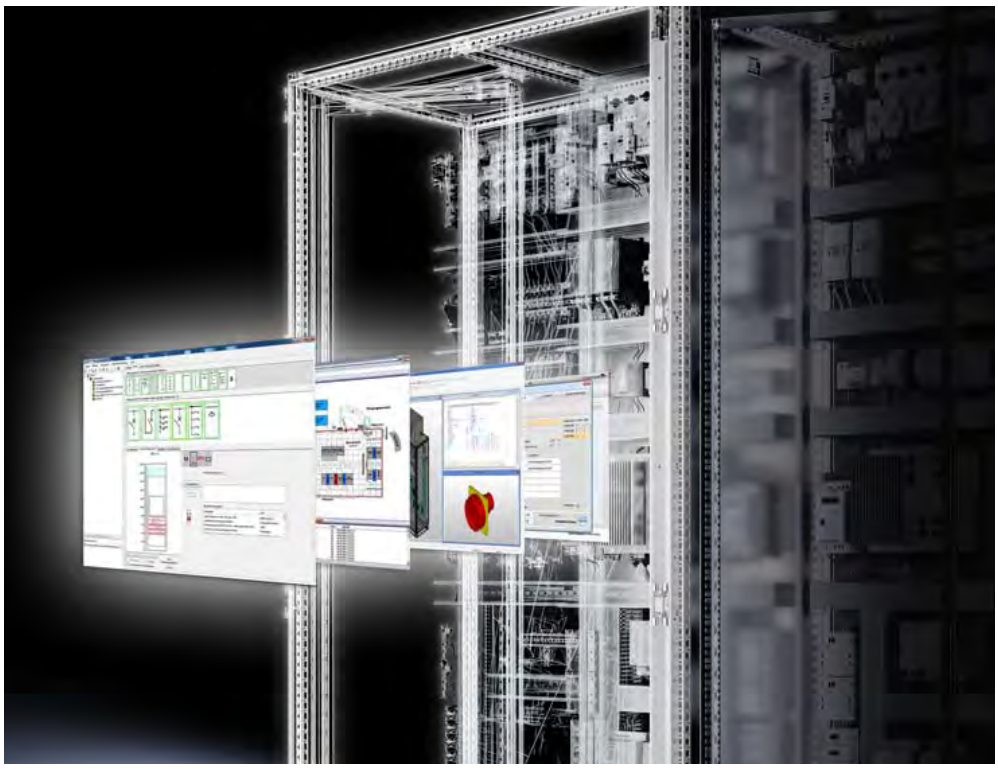
for DIN rail-mounted devices

Support frame set for accepting DIN rail-mounted devices (e.g. MCBs). The support rails are fastened with two mounting brackets to the compartment side panel. The cover is fastened to the support frame with knurled screws. In combination with functional space dividers, partial mounting plates and side panel modules, internal compartmentalisation in accordance with Form 2, 3 or 4 is possible.

Material:
- Support frame: Sheet steel, zinc-plated, passivated, 1.5 mm
- Cover: Sheet steel, spray finished, 1.5 mm

Supply includes:
- Support rails
- 2 mounting brackets
- 1 cover with cut-out
- Assembly parts

For enclosure width mm	For compartment height mm	No. of pitch units 17.5 mm	Packs of	**Model No.**
600	300	2 x 24	1 pc(s).	**9683.763**
800	300	2 x 36	1 pc(s).	**9683.783**



Certainty for engineering: optimum conversion and planning tools, see page 1160

Busbar support

for fuse-switch disconnector section
Busbar supports for the distribution busbar system of the fuse-switch disconnector section.

Material:
– Duroplastic polyester

Supply includes:
– Mounting bracket and screws

For busbars mm	Number of poles	Packs of	**Model No.**
60 x 10	3-pole 4-pole	1 pc(s).	**9674.416**
80 x 10	3-pole 4-pole	1 pc(s).	**9674.418**
100 x 10	3-pole 4-pole	1 pc(s).	**9674.410**

Also required:
– Busbars E-Cu, see page 342
– End support, see page 415

End support

for fuse-switch disconnector section
End support for the distribution busbar system of the fuse-switch disconnector section, for vertical support of the distribution busbar system with infeed from above.

Material:
– Duroplastic polyester

Supply includes:
– Mounting bracket and screws

For busbars mm	Number of poles	Packs of	**Model No.**
60 x 10	3-pole 4-pole	1 pc(s).	**9674.436**
80 x 10	3-pole 4-pole	1 pc(s).	**9674.438**
100 x 10	3-pole 4-pole	1 pc(s).	**9674.430**

Also required:
– Busbars E-Cu, see page 342

Cover

Set for distribution busbar
(Jean Müller fuse-switch disconnector section)
To cover the distribution busbar system of a fuse-switch disconnector section, designed to accommodate Jean Müller devices. The 150 mm high busbar and cable connection space covers shield the busbar compartment from the functional space so that it is safe from finger contact, with a protection category of IP 20.

Material:
– PVC, black

Supply includes:
– Set consisting of 12 busbar covers and cable connection space covers

For enclosure height mm	Packs of	**Model No.**
2000 2200	1 pc(s).	**9674.380**

Also required:
– Punched rail, see page 416

Fuse-switch disconnector section

Punched rail

Set for cover, distribution busbar (Jean Müller fuse-switch disconnector section)
Required for mounting the distribution busbar cover.

Material:
– Sheet steel, zinc-plated

Supply includes:
– Set consisting of 2 punched rails
– Assembly parts

Note:
– For 1 fuse-switch disconnector section, 1 pack of punched rails is required.

For enclosure height mm	Packs of	**Model No.**
2000 2200	1 pc(s).	**9674.381**

Cover

for distribution busbar (ABB/Siemens fuse-switch disconnector section)
To cover the distribution busbar system of a switch-disconnector-fuse section, designed to accommodate ABB (SlimLine) or Siemens (3NJ62) devices. The 200 mm high busbar compartment covers shield the busbar compartment from the functional space so that it is safe from finger contact, with a protection category of IP 20.

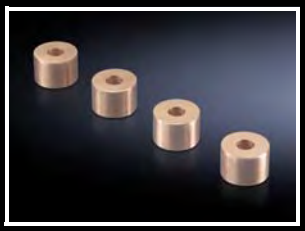
Material:
– PVC, black

Note:
– The cover may be ordered from ABB under model number NHP 407062R000X
– For enclosure height 2000 mm, a height of 1500 mm should be covered, and for enclosure height 2200 mm, a height of 1700 mm should be covered

Copper spacer roll

for Maxi-PLS busbars and flat copper bars
For use as a universal spacer.

Material:
– E-Cu



Height mm	Diameter mm	Hole Ø mm	Packs of	**Model No.**
20	30	13	4 pc(s).	**9676.503**
20	40	13	4 pc(s).	**9676.504**
20	50	13	4 pc(s).	**9676.505**

Wiring trim panel

for VX
Inner front cover of the main busbar system with the option of mounting a 40 x 20 mm (WxD) wiring channel. Suitable for use in Ri4Power switchgear with 300 mm high front trim panels. Horizontal cable routing behind the front trim panels. Also supports the installation of support rails with DIN rail mounted devices.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– 1 wiring trim panel, 3-part
– Assembly parts

Note:
– For vertical cable routing, compartment dividers enable the installation of a wiring channel, thanks to pre-punched cut-outs.

For enclosure width mm	Packs of	**Model No.**
600 800	1 pc(s).	**9683.736**
1000 1200	1 pc(s).	**9683.738**

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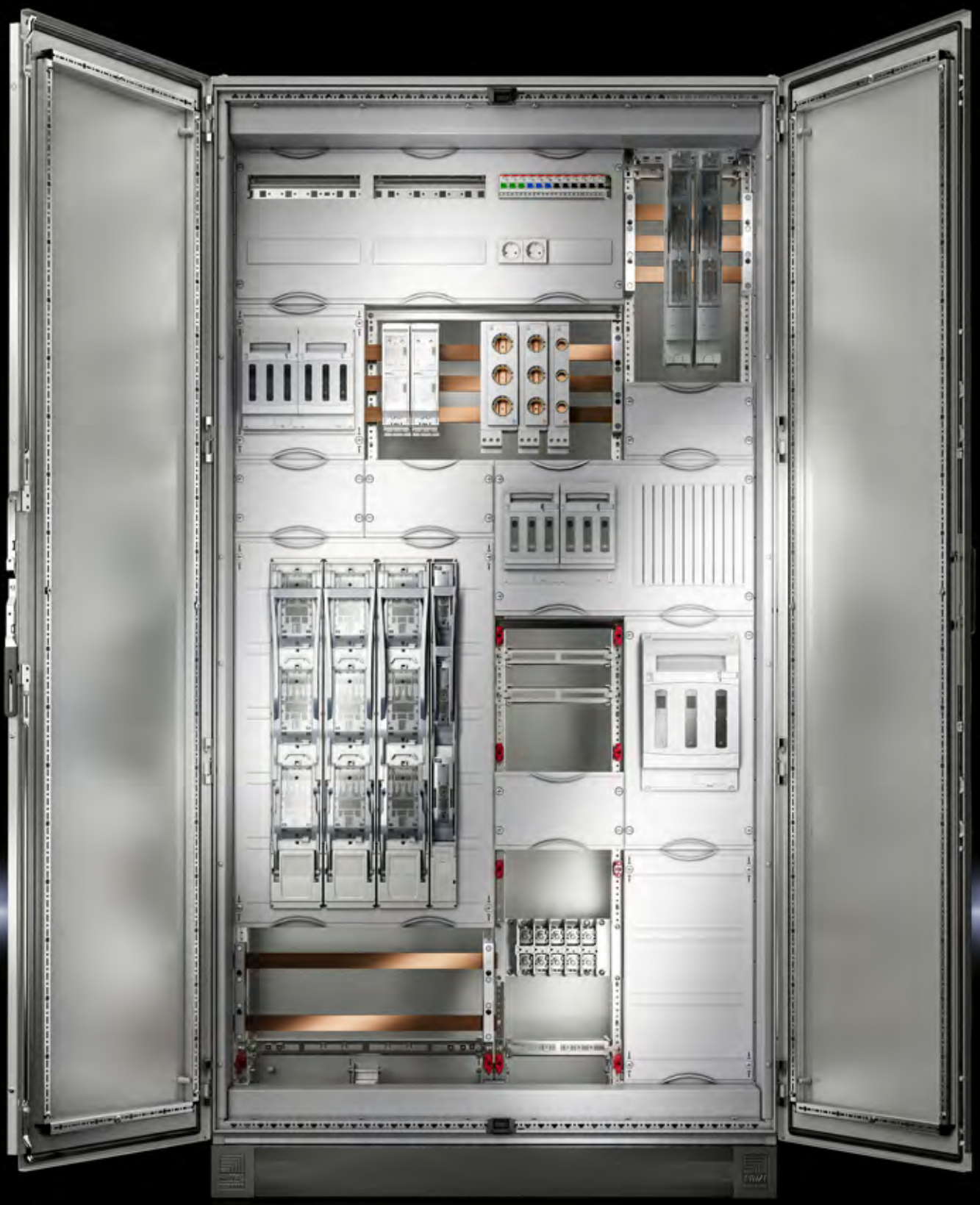


VX25 Ri4Power ISV distribution enclosures

Distribution enclosures

- Based on baying enclosure system VX25, see page 116
- Mounting kits, see page 420

Wall-mounted distributors

- Based on compact enclosure AX, see page 84
- Mounting kits, see page 420

Installation modules

- Easy mounting on support frame or support plate
- Individual combination and configuration
- Pitch pattern 150 x 250 mm
- Installation modules, see page 421

Power distribution components

- Bus-mounting fuse bases, see page 323
- NH fuse-switch disconnectors, see page 325
- NH slimline fuse-switch disconnectors, see page 335

Mounting kits

ISV installation kit

for VX

For mounting ISV installation modules in the enclosure.

Material:
- Mounting frame holder: Sheet steel, zinc-plated
- Contact hazard protection: sheet steel, spray-finished
- Contact hazard protection, sides: PVC

Supply includes:
- Mounting aid support
- Contact hazard protection
- Assembly parts

Accessories:
- Cross rail ISV, see page 429
- Mounting angles ISV, see page 429
- Depth stay, see page 430
- Equipment support connectors, see page 430

For enclosure width mm	For enclosure height mm	For enclosure depth mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	To fit Model No.	Note on Model No.	Packs of	**Model No.**
600	1800	400 500 600	2	11	8457.000/ 8684.000/ 8685.000/ 8686.000	Mounting angle 9666.711 and mounting plate 8612.400 are additionally required	1 pc(s).	**9666.932**
600	2000	400 500 600	2	12	8452.000/ 8604.000/ 8605.000/ 8606.000	Mounting angle 9666.712 and mounting plate 8612.400 are additionally required	1 pc(s).	**9666.902**
850	2000	400 600	3	12	9666.916/ 9666.956	Mounting angle 9666.712 and mounting plate 8612.400 are additionally required	1 pc(s).	**9666.912**
1100	2000	400 600	4	12	9666.926/ 9666.966	Mounting angle 9666.712, depth stay 9666.732 and mounting board 8612.400 are additionally required	1 pc(s).	**9666.922**

ISV installation kit

for AX

For mounting ISV installation modules in enclosures.

Material:
- Assembly kit: Sheet steel, zinc-plated
- Support rail: Sheet steel, zinc-plated
- Contact hazard protection: Sheet steel, spray-finished

Supply includes:
- Assembly kit
- Support rails
- Contact hazard protection
- Assembly parts

Also required:
- Mounting angles ISV, see page 429

For enclosure width mm	For enclosure height mm	For enclosure depth mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	To fit Model No.	Packs of	**Model No.**
380	600	210	1	3	1008.X00/ 1038.X00	1 pc(s).	**9666.801**
500	700	250	1	4	1057.X00	1 pc(s).	**9666.811**
600	760	210	2	4	1012.X00/ 1076.X00	1 pc(s).	**9666.821**
600	1000	250	2	6	1090.X00	1 pc(s).	**9666.831**
600	1200	300	2	7	1260.X00	1 pc(s).	**9666.841**
1000	1200	300	3	7	1019.X00/ 1213.X00/ 1305.X00	1 pc(s).	**9666.851**

Contact hazard protection module

For covering free installation areas. Cover is prepared for a lead seal.

Material:
– Cover: Polystyrene

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	Packs of	**Model No.**
250	150	1	1	1 pc(s).	**9666.000**
250	300	1	2	1 pc(s).	**9666.010**
250	450	1	3	1 pc(s).	**9666.020**
250	600	1	4	1 pc(s).	**9666.030**
500	150	2	1	1 pc(s).	**9666.040**
500	300	2	2	1 pc(s).	**9666.050**
500	450	2	3	1 pc(s).	**9666.060**
500	600	2	4	1 pc(s).	**9666.070**
750	300	3	2	1 pc(s).	**9666.053**
750	450	3	3	1 pc(s).	**9666.063**
750	600	3	4	1 pc(s).	**9666.073**

Mounting plate module

Possible installation depth 105 - 140 mm. Cover is prepared for a lead seal.

Material:
– Cover: Polystyrene
– Mounting plate: Sheet steel, zinc-plated

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	Dimensions mounting plate (W x H) mm	Packs of	**Model No.**
250	150	1	1	188 x 116	1 pc(s).	**9666.080**
250	300	1	2	188 x 266	1 pc(s).	**9666.090**
250	450	1	3	188 x 416	1 pc(s).	**9666.100**
250	600	1	4	188 x 566	1 pc(s).	**9666.110**
500	150	2	1	438 x 116	1 pc(s).	**9666.120**
500	300	2	2	438 x 266	1 pc(s).	**9666.130**
500	450	2	3	438 x 416	1 pc(s).	**9666.140**
500	600	2	4	438 x 566	1 pc(s).	**9666.150**
750	300	3	2	688 x 266	1 pc(s).	**9666.133**
750	450	3	3	688 x 416	1 pc(s).	**9666.143**

Installation modules

Support rail module

For installing terminal blocks, switchgear, etc. with support rails 35 x 15 mm. Adjustable on a 25 mm pitch pattern. Cover is prepared for a lead seal.

Material:
– Cover: Polystyrene
– Support rail: Sheet steel, zinc-plated

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Accessories:

– Wiring bracket, see page 428

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	Number of support rails	Packs of	**Model No.**
250	150	1	1	1	1 pc(s).	**9666.160**
250	300	1	2	2	1 pc(s).	**9666.170**
250	450	1	3	3	1 pc(s).	**9666.180**
250	600	1	4	4	1 pc(s).	**9666.190**
500	150	2	1	1	1 pc(s).	**9666.200**
500	300	2	2	2	1 pc(s).	**9666.210**
500	450	2	3	3	1 pc(s).	**9666.220**
500	600	2	4	4	1 pc(s).	**9666.230**
750	300	3	2	2	1 pc(s).	**9666.213**
750	450	3	3	3	1 pc(s).	**9666.223**

DIN rail mounted device module

To accommodate DIN rail mounted devices. With support rails 35 x 15 mm. Cover is prepared for a lead seal.

Material:
– Cover: Polystyrene
– Support rail: Sheet steel, zinc-plated

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Accessories:

– Cover strip, see page 428

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	Max. pitch units @ 18 mm	Number of cut-outs	Number of support rails	Packs of	**Model No.**
250	150	1	1	12	1	1	1 pc(s).	**9666.240**
250	300	1	2	24	2	2	1 pc(s).	**9666.250**
250	450	1	3	36	3	3	1 pc(s).	**9666.260**
250	600	1	4	48	4	4	1 pc(s).	**9666.270**
500	150	2	1	24	2	1	1 pc(s).	**9666.280**
500	300	2	2	48	4	2	1 pc(s).	**9666.290**
500	450	2	3	72	6	3	1 pc(s).	**9666.300**
750	300	3	2	72	6	2	1 pc(s).	**9666.293**
750	450	3	3	108	9	3	1 pc(s).	**9666.303**

Connection terminal block

For connecting copper and aluminium conductors. For laminated copper bars or solid and stranded conductors with a pressed wire end ferrule.

Material:
– Duroplastic

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Also required:

– Contact hazard protection module, see page 421
– Mounting set, see page 423

Assembly instruction:

– Contact hazard protection module 9666.020 is additionally required to cover the connection terminal block

Rated current max. A	Number of poles	Connection of round conductors mm^2	Clamping area for laminated copper bars (W x H) mm	Packs of	**Model No.**
250	5-pole	16 - 150 2 x 16 - 70	17 x 21	1 pc(s).	**9666.340**
400	5-pole	50 - 240 2 x 25 - 120	25 x 21	1 pc(s).	**9666.350**

Mounting set

for connection terminal block
For attaching the connection terminal block to the frame of the ISV installation kit.

Material:
– Sheet steel, zinc-plated

Supply includes:
– Assembly parts

Width units (WU) @ 250 mm	Height units (U) @ 150 mm	Packs of	**Model No.**
1	3	1 pc(s).	**9666.310**

Installation modules

NH fuse-switch-disconnector module

Suitable for accommodating NH fuse-switch disconnectors for mounting plate assembly. Cover is prepared for a lead seal.

Material:
– Cover: Polystyrene
– Cross member: Sheet steel

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Assembly instruction:

– When using the NH fuse-switch disconnector 2 x size 2 (9344.210/.230/.250) or 1 x size 3 (9344.310/.330/.350), the disconnector cross-member 9666.420 and contact hazard protection module 9666.060 should be used as the module unit

Accessories:

– Blanking cover, see page 428

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	For size	To fit Model No.	Packs of	**Model No.**
250	300	1	2	2 x size 00	9344.000/ 9344.010/ 9344.020/ 9344.030/ 9344.040/ 9344.050	1 pc(s).	**9666.380**
500	300	2	2	4 x size 00	9344.000/ 9344.010/ 9344.020/ 9344.030/ 9344.040/ 9344.050	1 pc(s).	**9666.390**
250	450	1	3	1 x size 1	9344.100/ 9344.110/ 9344.130/ 9344.150	1 pc(s).	**9666.400**
250	450	1	3	1 x size 2	9344.210/ 9344.230/ 9344.250	1 pc(s).	**9666.410**

Disconnector cross member

for NH fuse-switch disconnectors
Suitable for accommodating NH fuse-switch disconnectors for mounting plate assembly.

Material:
– Sheet steel

Supply includes:
– Assembly parts

Note:
– When using the disconnector cross-member, contact hazard protection module 9666.060 is additionally required

Also required:

– Contact hazard protection module, see page 421

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	For size	To fit Model No.	Packs of	**Model No.**
500	450	2	3	2 x size 2 1 x size 3	9344.210/ 9344.230/ 9344.250/ 9344.310/ 9344.330/ 9344.350	1 pc(s).	**9666.420**

NH slimline fuse-switch-disconnector module

For NH slimline fuse-switch disconnectors, sizes 00 to 3 (3-pole, 100/185 mm bar centre distance).

Material:
– Cover: Polystyrene
– Holder: Fibreglass-reinforced plastic

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Note:
– In order to ensure problem-free cable connection, a contact hazard protection module or an N/PE busbar module must be installed above or below the NH slimline fuse-switch disconnector modules.

Also required:
– Busbars E-Cu, see page 342

Accessories:
– Contact hazard protection module, see page 421
– Busbar module N/PE, see page 426

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	For size	To fit Model No.	For busbar mm	Bar centre distance mm	Packs of	**Model No.**
250	450	1	3	3 x size 00	9346.020/ 9346.030	40 x 10	100	1 pc(s).	**9666.570**
500	450	2	3	6 x size 00	9346.020/ 9346.030	40 x 10	100	1 pc(s).	**9666.580**
500	750	2	5	8 x size 00 4 x size 1 4 x size 2 4 x size 3	9677.XXX	60 x 10	185	1 pc(s).	**9666.550**
750	450	3	3	10 x size 00	9346.020/ 9346.030	40 x 10	100	1 pc(s).	**9666.583**
750	750	3	5	12 x size 00 6 x size 1 6 x size 2 6 x size 3	9677.XXX	60 x 10	185	1 pc(s).	**9666.560**

Circuit-breaker module

Suitable for accommodating standard moulded-case circuit-breakers from ABB, Eaton, Schneider Electric and Siemens. Cover is prepared for a lead seal.

Material:
– Cover: Polystyrene
– Support rail: Sheet steel, zinc-plated

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	For switchgear make (model)	Packs of	**Model No.**
250	300	1	2	ABB (T1, T2, T3) Eaton (NZM1, NZM2, BZM B1, BZM B2) Schneider Electric (NSX100, NSX160, NSX250) Siemens (3RV13 53, VL160(X), VL250, VT1, VT2)	1 pc(s).	**9666.430**
500	450	2	3	ABB (T4, T5) Eaton (NZM3) Schneider Electric (NSX400, NSX630) Siemens (3RV1.6., 3RV1.7., VL400, VL630, VT3)	1 pc(s).	**9666.440**

Installation modules

Meter mounting board module

Open module for internal measurements. Clearance depth available for meter installation 170 mm.

Design:
– Attachment rails to accommodate a meter

Material:
– Meter mounting board: Polystyrene
– Mounting rails: sheet steel, zinc-plated

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Note:
– The meter mounting board module does not comply with meter mounting board standard DIN 43 870/VDE 0603 and does not meet the conditions for total insulation. Use in unmetered areas only by arrangement with the local electricity supply company.

Assembly instruction:

– 1 contact hazard protection module / DIN rail-mounted device module or support rail module with 1 WU and at least 1 U is required both above and below the meter mounting board module

Accessories:

– Contact hazard protection module, see page 421
– Support rail module, see page 422
– DIN rail mounted device module, see page 422

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	Packs of	**Model No.**
250	450	1	3	1 pc(s).	**9666.640**

Busbar module N/PE

For attaching busbars 12 x 5/10 mm, 20 x 5/10 and 30 x 5/10 mm for N and PE. Cover is prepared for a lead seal.

Material:
– Cover: Polystyrene
– Holder: Fibreglass-reinforced plastic
– Support rail: Sheet steel, zinc-plated

Colour:
– RAL 7035

Also required:

– Busbars E-Cu, see page 342

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	Packs of	**Model No.**
250	300	1	2	1 pc(s).	**9666.590**
500	300	2	2	1 pc(s).	**9666.600**
750	300	3	2	1 pc(s).	**9666.603**

Busbar module

for fuse elements

For assembling bus-mounting fuse bases E18, E27, E33 and D-Switch as well as NH fuse-switch disconnectors, sizes 000 and 00 (3-pole, 60 mm bar centre distance).

Material:
- Cover: Polystyrene
- Holder: Fibreglass-reinforced plastic

Colour:
- RAL 7035

Supply includes:
- Assembly parts

Also required:
- Busbars E-Cu, see page 342

Accessories:
- Blanking cover, see page 428

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	To fit Model No.	For busbar mm	Packs of	**Model No.**
250	300	1	2	3418.010/ 3427.010/ 3433.010/ 3431.020/ 3431.030/ 3431.035/ 9340.950/ 9343.000/ 9343.020/ 9343.040	30 x 10	1 pc(s).	**9666.520**
500	300	2	2	3418.010/ 3427.010/ 3433.010/ 3431.020/ 3431.030/ 3431.035/ 9340.950	30 x 10	1 pc(s).	**9666.530**
750	300	3	2	3418.010/ 3427.010/ 3433.010/ 3431.020/ 3431.030/ 3431.035/ 9340.950	30 x 10	1 pc(s).	**9666.533**

Accessories

Cover strip

for DIN rail mounted device module
For sealing unused component cut-outs in DIN rail mounted device modules, max. 12 pitch units (12 x 18 mm), divisible every 9 mm.

Material:
– ABS

Colour:
– RAL 7035

Packs of	Model No.
5 pc(s).	**9666.650**

Blanking cover

for busbar module
For sealing unused cut-outs. Width: 16 – 34 mm, variable.

Material:
– Polypropylene

Colour:
– RAL 7035

Width mm	To fit Model No.	Packs of	Model No.
34	9666.520/ 9666.530/ 9666.533	10 pc(s).	**9666.660**

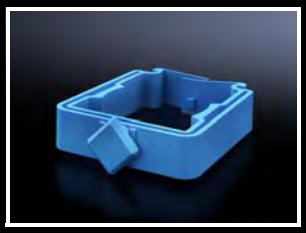
Blanking cover

for NH fuse-switch-disconnector module
For sealing unused cut-outs (size 00).

Material:
– PVC

Colour:
– RAL 7035

Width mm	To fit Model No.	Packs of	Model No.
117	9666.380/ 9666.390	1 pc(s).	**9666.665**



Wiring bracket

For tool-free attachment to the support rail 35 x 15 mm, for cable entry at the rear of support rail modules.

Material:
– Polyamide

Packs of	Model No.
10 pc(s).	**9666.670**

Depth extension frame

for NH fuse-switch disconnectors size 00

For extending the depth of the contact hazard protection cover. Allows unrestricted connection of NH fuse-switch disconnectors, size 00 (3-pole, 60 mm bar centre distance).

Material:
– Polystyrene

Colour:
– RAL 7035

Supply includes:
– Assembly parts

Note:
– NH fuse-switch disconnectors size 00 with covers and depth extension frame cannot be used in conjunction with other equipment

Width mm	Height mm	Width units (WU) @ 250 mm	Height units (U) @ 150 mm	Packs of	Model No.
250	300	1	2	1 pc(s).	**9666.680**

Cross rail ISV

for VX

For horizontal sub-division of the support frame in the enclosure.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Width mm	Width units (WU) @ 250 mm	Packs of	Model No.
500	2	2 pc(s).	**9666.722**
750	3	2 pc(s).	**9666.723**
1000	4	2 pc(s).	**9666.724**

Mounting angles ISV

for VX

For vertical sub-division of the support frame in the enclosure.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Height mm	Height units (U) @ 150 mm	Packs of	Model No.
300	2	2 pc(s).	**9666.702**
450	3	2 pc(s).	**9666.703**
600	4	2 pc(s).	**9666.704**
750	5	2 pc(s).	**9666.705**
900	6	2 pc(s).	**9666.706**
1050	7	2 pc(s).	**9666.707**
1650	11	2 pc(s).	**9666.711**
1800	12	2 pc(s).	**9666.712**

Accessories:

– Equipment support connectors, see page 430

Mounting angles ISV

for AX

For vertical sub-division of the support frame in the enclosure.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Height mm	Height units (U) @ 150 mm	Packs of	Model No.
450	3	2 pc(s).	**9666.753**
600	4	2 pc(s).	**9666.754**
900	6	2 pc(s).	**9666.756**
1050	7	2 pc(s).	**9666.757**

Accessories

Depth stay

for installation kit ISV
For attaching the installation kit in the enclosure.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– Assembly parts

For enclosures	For enclosure depth mm	To fit Model No.	Packs of	**Model No.**
VX	400 500 600	9666.902/ 9666.912/ 9666.922/ 9666.932	2 pc(s).	**9666.732**

Equipment support connectors

for mounting angles ISV
For connecting 2 mounting angles. Increases the stability of the frame structure.

Material:
– T-section: Aluminium

Supply includes:
– Assembly parts

To fit Model No.	Packs of	**Model No.**
9666.702/ 9666.703/ 9666.704/ 9666.705/ 9666.706/ 9666.707/ 9666.711/ 9666.712	4 pc(s).	**9666.740**

Wall-mounted distributor

Based on compact enclosure AX, see page 78

Rittal Energy and Power Solutions

End-to-end solutions from generation to consumer

Renewable energies

- Reliable energy generation and infeed, together with smart connectivity, are the key to the new energy world, where energy solutions must transcend individual sectors.
- There is a demand for solutions with global availability and internationally recognised approvals plus effective protection from a wide range of ambient conditions.
- Plant and systems engineering needs solutions to create significant competitive advantages through energy efficiency plus time and money savings.

Energy storage solutions

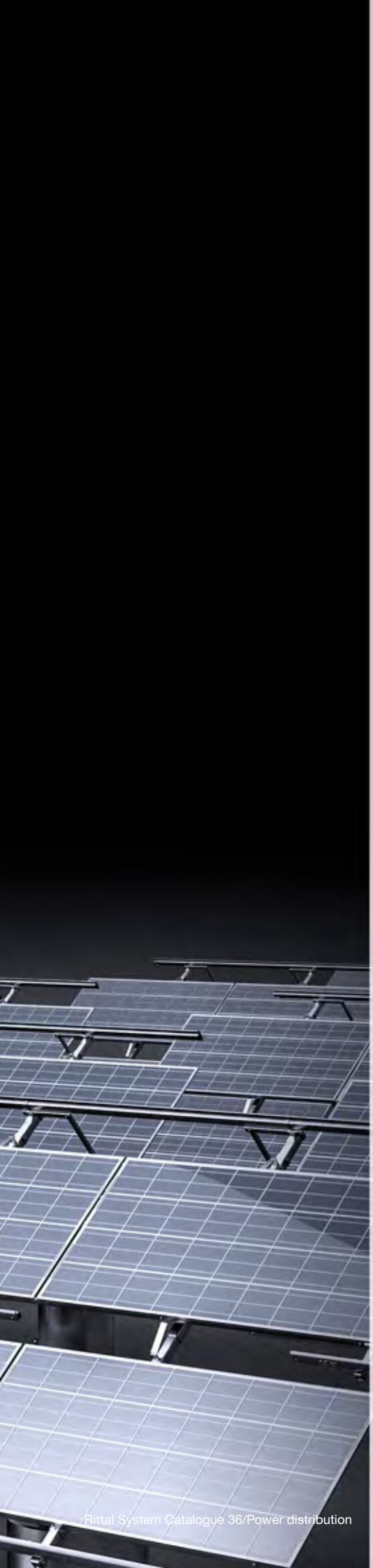
- Battery stores can help to stabilise the power supply in the renewable energies environment, e.g. by means of peak load management, frequency retention and an uninterruptible power supply (UPS).
- The different battery module designs available on the market necessitate a variable solution for building energy storage systems. The standardised modular system offers the required degree of variability and supports the integration of 482.6 mm (19″) battery types and other variants using rails and heavy-duty shelves.
- The range of products includes indoor, outdoor and even container solutions. Our standard products will help to reduce your planning and production costs.

Charging infrastructure

- Charging centres generally comprise a scalable number of charging pillars, the requisite backend infrastructure, plus a low-voltage main distributor.
- We usually distinguish between normal charging in the range < 50 kW (primarily AC technology), fast charging from 50 kW upwards, and high-power charging > 150 kW (DC technology).

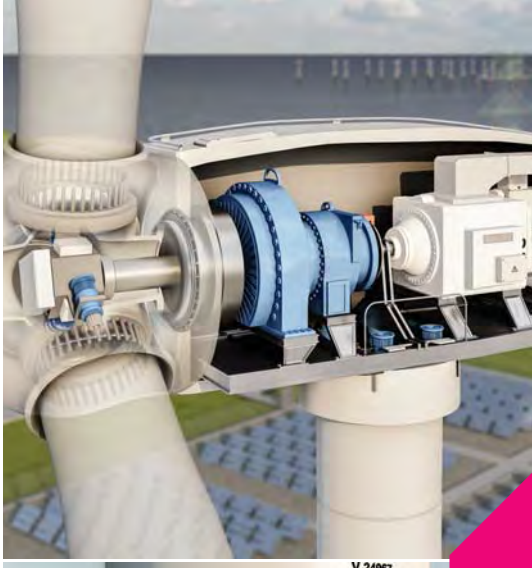
Renewable energies

Flexible enclosure solutions for wind power and photovoltaics



Rotor hub / nacelle

- Rittal provides suitable enclosure and case systems for all areas of wind farms, based on impressive modular technology.
- Control cabinets in the nacelle and pitch enclosure directly in the rotor hub, to reliably withstand even the highest dynamic forces



Tower

- The components we use are modular, efficient and low-maintenance, for fast (and in some cases, customised) configuration.
- Complete system solutions for powerful frequency converters including climate control

Central inverter

- There is a growing use of inverter systems under difficult ambient conditions.
- Smart standard solutions offer a high level of physical protection for the enclosure, equipped with power distributor and climate control.

Solar panel

- Compact enclosures in the AX and KX series are ideal for housing the electronics for solar tracking systems or as a general junction box. The small and compact enclosures offer simpler, faster assembly coupled with greater flexibility and security.

Renewable energies

Application			Enclosure
System solution			Rittal enclosure solutions provide optimum protection for your components. ■ Protection category-tested enclosure technology to IP, IK, RC ■ Accredited in-house laboratory ■ 3-phase surface treatment for maximum corrosion protection ■ Choice of materials depending on the climate and requirement profile: Aluminium, stainless steel, sheet steel ■ EMC protection ■ Static load capacity up to 14,000 N
		Requirements	
Wind energy	Rotor hub	■ Dynamic loads ■ Walkable ■ Easy access	■ Small and compact enclosures, material: sheet steel, stainless steel, from page 43
	Nacelle	■ Dynamic loads ■ Thermal management ■ Prevent condensation	■ Large enclosure, material: Sheet steel, from page 116
	Tower	■ Confined space ■ Thermal management	■ Large enclosure, material: Sheet steel, from page 116
Photovoltaics	Central inverter	■ Weather influences ■ Environmental conditions	■ Large outdoor enclosure, material: Stainless steel, aluminium, from page 268
	Solar panel		■ Small enclosure/PK, material: Plastic, sheet steel, from page 43

	Climate control	Power distribution	Accessories	Quality management
	Efficient, innovative climate control solutions provide reliable protection for your power electronics. ■ Fans, cooling units and heaters for temperature control of the built-in equipment. ■ Individual design of the required climate control using our Therm software	Rittal offers a modular system for demand-based power distribution (from page 277). ■ Distribution and protection of the power supply focussing on standardisation and availability ■ Planning and design of low-voltage switchgear to IEC 61 439 with design certificate using Power Engineering software		Rittal will support you from day one: ■ Project planning of technical specifications ■ Prototype assembly, testing and simulations ■ Manufacturing and assembly ■ Warehousing service and on-time delivery ■ Your own personal point of contact throughout the entire project
	■ Fan-and-filer units with protection category IP 54 as standard. More products from page 456	■ Modular system for low-voltage switchgear with design verification to IEC 61 439 up to 1600 A for DC and AC applications, from page 446 ■ Rated current < 125 A RiLine Compact, from page 285 ■ Rated current < 250 A Mini-PLS, from page 294 ■ Rated current < 1600 A RiLine PLS, from page 300 ■ Rated current < 6300 A VX25 Ri4Power, from page 314	■ Earthquake kit, from page 1032 ■ EMC, from page 1028 ■ Monitoring, from page 799 ■ IoT interface, from page 554 ■ Base/plinths, from page 880 ■ Lock systems, from page 933 ■ Rain canopies, from page 958 ■ Interior installation, mounting plates, bar systems, from page 970 ■ Industry-specific accessories available on request	Accredited Rittal test laboratory ■ Simulation of climatic conditions ■ Dynamic and static load tests ■ 3D measurement ■ Corrosion testing ■ Electrical safety and function tests ■ Software tests ■ Performance testing of chillers, cooling units and heat exchangers
	■ Fan-and-filter units and Blue e+ (energy-efficient) More products from page 456			
	■ Roof-mounted cooling unit; doors or side panels and escape routes are kept free More products from page 498			
	■ TopTherm Blue e wall-mounted cooling unit, NEMA 4X, also as IIoT bundle ■ Outdoor cooling unit, from page 496 More products from page 477			
	■ Fan-and-filter units ■ Thermoelectric coolers More products from page 456			

Energy Storage Solutions (ESS)

The perfect system solution for every storage task

Heavy-duty shelves for loads up to 100 kg per level

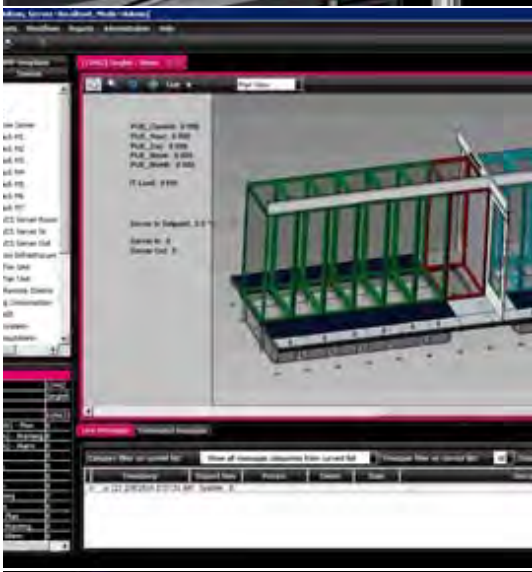
- Rittal's modular product system includes standard components for flexible assembly of an infrastructure with a battery energy storage system (BESS).
- Battery types not compliant with the 482.6 mm (19´) standard may be integrated, e.g. using heavy-duty shelves with a load-bearing capacity of up to 100 kg.

Integration with the 482.6 mm (19´) rack mounting system

- The technology behind the 482.6 mm (19´) standard is exceptionally assembly-friendly and supports simple integration of these battery types.
- For larger battery capacities, Rittal enclosures may be bayed.

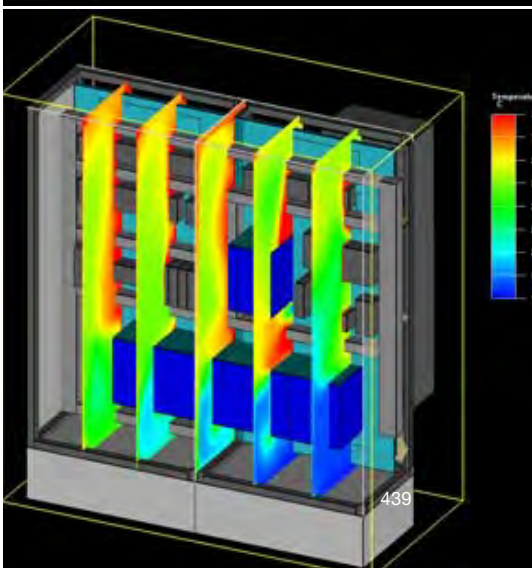
Efficient monitoring

- For seamless monitoring of performance and risk of failure, ESS may be combined with CMC and RiZone for the monitoring system.
- Web connectivity is provided via the Rittal IoT interface.



Efficiency in plant design

- Lithium ion batteries have a specific thermal operating window which must be observed for safety reasons. Depending on the installation site and use of the system, therefore, a range of design features from active ventilation through to climate control may be required.
- Rittal offers FEM and CFD analyses to represent your individual project in its specific situation, so that you can gauge which concepts are viable and which are not.



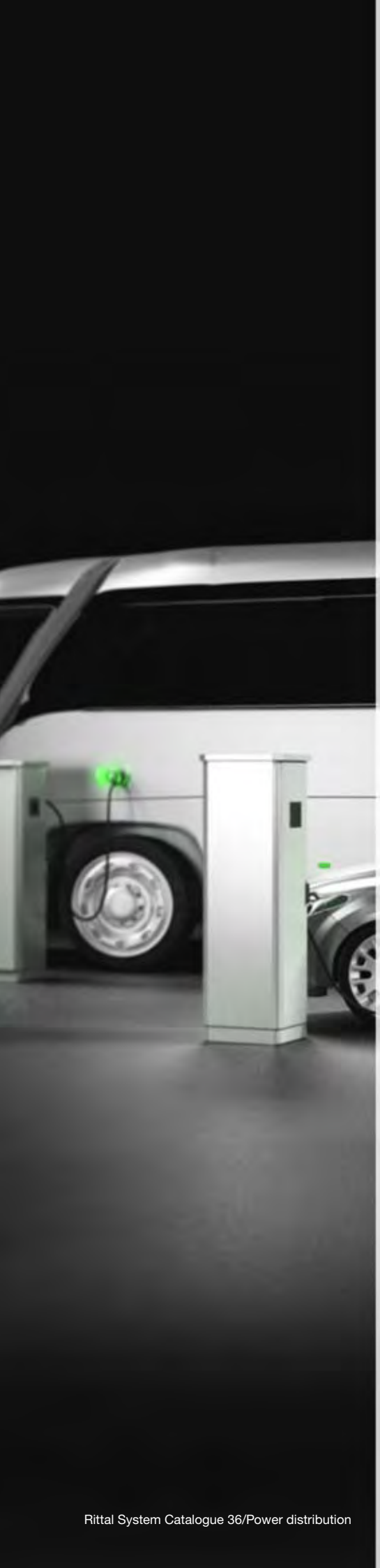
Energy storage solutions

		Enclosures			Climate control		
Type		**VX25 rack system**	**Outdoor enclosure system**	**Container**	**Wall-mounted cooling unit Blue e+**	**Roof-mounted cooling unit Blue e+**	
System solution		The modular VX25 enclosure system is available in a range of sizes, both as a standalone rack and as a bayable solution. Our extensive range of accessories supports a broad range of solutions. With a weight capacity of 1500 kg, all standard battery types may be integrated.	Identical system platform in the outdoor sector as for IE or IT enclosure systems. Additionally with weather canopy, with projection on all sides. The double-walled design reduces the influence of sunlight. The open frame structure offers installation benefits. Also available as a baying variant.	On a project-specific basis, we offer 20ft and 40ft containers with up to 18/36 bays. Where required, these may be designed with suitable climate control.	Our energy-efficient Blue e+ wall-mounted cooling units ensure the correct temperature inside the enclosure. The outputs range from 1.6 to 6 kW. Their unique multi-voltage capability makes them suitable for international use. The cooling units are IIoT-compatible and support modern condition monitoring.	Our energy-efficient Blue e+ roof-mounted cooling units ensure the correct temperature inside the enclosure. The output is 1.3 kW. Their unique multi-voltage capability makes them suitable for international use. The cooling units are IIoT-compatible and support modern condition monitoring.	
Approvals		CSA, DNV-GL, UL and C-UL	–		CE, TÜV-tested safety, UL/cUL, UL/cUL-FTTA, EAC	CE, TÜV-tested safety, UR/cUR, EAC	
482.6 mm (19″) configuration	Indoor	■	–	■	■	■	
	Outdoor	–	■	–	–	–	
Heavy-duty shelf	Indoor	■	–	■	■	■	
	Outdoor	–	■	–	–	–	
From page		116	263	On request	486	504	

	Climate control	Power distribution	Interior installation	Accessories	
	Outdoor cooling unit	**Busbars**	**Component shelf for frame attachment**	**Adaptor section, 482.6 mm (19″)**	**Slide rails, static installation for VX IT**
	Useful cooling output 1500 W, temperature control via e+ controller on the rear of the cooling unit. For universal attachment to outdoor enclosures for external, partial internal and full internal mounting. Average 75% energy savings thanks to speed-regulated components and heat pipe technology. Multi-voltage capability for global use. In conjunction with the IoT interface, the cooling unit can be networked and digitalised	Flexible power distribution solutions, highly adaptable up to 6300 A. Project planning is child's play with the user-friendly Power Engineering software.	Mounting bolts / mounting rails may be installed on a 25 mm pitch pattern pattern in the enclosure depth. For frame attachment, for installation in enclosures without 482.6 mm (19″) accommodation. Load capacity up to 100 kg.	The adaptor mounting angles are available for enclosure heights 1600 mm (33 U), 1800 mm (38 U) and 2000 mm (42 U). The 482.6 mm (19″) measurement applies when mounting on the frame of 600 mm wide enclosures. Depth-offset installation in 600 mm wide enclosures is supported using punched sections with mounting flanges, 18 x 64 mm.	For mounting between the front and rear mounting levels. To support heavy installed equipment. Side system punchings for mounting accessories and cooling components that expel to the side. Load capacity up to 80 kg static load.
	International approvals (cULus Listed, cULus FTTA, CE and EAC)	–	–	–	–
	–	■	–	■	■
	■	■	–	■	■
	–	■	■	–	–
	■	■	■	–	–
	497	281	1006	1080	1086

Charging infrastructure

System solutions to meet the challenges of a charging infrastructure



Normal charging

- Normal charging refers to the output category below 22 kW, primarily with AC voltage. The charge control may be accommodated in the charging pillar itself or in a backend infrastructure supplying multiple charging pillars simultaneously. Typical application areas include company car parks, supermarkets, hotels or multi-storey car parks where vehicles are parked for long periods and therefore have sufficient time to charge the battery.

Quick charging

- Quick charging refers to an output category of more than 22 kW. Quick charging is primarily achieved with DC voltage. As with normal charging, the charge control may be accommodated in the charging pillar itself or in a backend infrastructure supplying multiple charging pillars. Once again, typical applications include supermarkets, hotels and multi-storey car parks where the electric vehicles are parked for long periods and therefore have time to charge the battery.

High-power charging

- High-power charging is always DC-based and in the output category of above 150 kW. The most common applications are service areas, bus stops and fuel stations where a quick recharge of the vehicle battery is needed. The enclosures must provide protection from harsh environmental conditions as well as access control.

Charging infrastructure

Application		Enclosures		Accessories
System solution		Rittal enclosure solutions provide optimum protection for your components. ■ Protection category-tested enclosure technology to IP, IK, RC ■ Accredited in-house laboratory ■ 3-phase surface treatment for maximum corrosion protection ■ Choice of materials depending on the climate and requirement profile: Aluminium, stainless steel, sheet steel ■ EMC protection ■ Static load capacity up to 14,000 N		
	Construction	Front end/charging pillar	Backend/infrastructure	
Normal charging ■ Company car park ■ Supermarket ■ Multi-storey car park ■ Hotel ■ Restaurant	AC 1 charging point (< 22 kW)	■ Compact enclosures AX, from page 84 ■ Stainless steel (HD), from page 217		■ Base/plinths, from page 880 ■ Lock systems, from page 933 ■ Rain canopies, from page 958 ■ Interior installation, mounting plates, 482.6 mm (19') frame, bar systems, from page 970 ■ System light, from page 1014 ■ EMC, from page 1028 ■ Cable entry/cable management, from page 1044
	AC n charging points (< 22 kW)	■ Stainless steel (HD), from page 217	■ Toptec, from page 270 ■ New Basic, from page 268 ■ Baying systems VX25, from page 116	
Quick charging ■ Supermarket ■ Multi-storey car park ■ Hotel ■ Restaurant	DC 1 charging point	■ Compact enclosures, from page 84 ■ Stainless steel (HD), from page 217 ■ Toptec, from page 270 ■ New Basic, from page 268 ■ Baying systems VX25, from page 116		
	DC n charging points	■ Compact enclosures AX, ■ from page 84 ■ Toptec, from page 270 ■ New Basic, from page 268 ■ Baying systems VX25, from page 116	■ Toptec, from page 270 ■ New Basic, from page 268 ■ Baying systems VX25, from page 116	
High-power charging ■ Service area ■ Bus stop	DC-HPC (> 150 kW)	■ Compact enclosures AX, from page 84 ■ Toptec, from page 270 ■ New Basic, from page 268 ■ Baying systems VX25, from page 116	■ Toptec, from page 270 ■ New Basic, from page 268 ■ Baying systems VX25, from page 116	

Other enclosure variants available on request (emobility@rittal.de)

	Climate control	Power distribution
	A charging centre may require various forms of climate control. ■ Fans, cooling units and heaters for temperature control of the built-in equipment. ■ Chillers for water cooling of the charging cable in the HPC sector or components with liquid cooling inside the enclosure ■ Individual design of the required climate control using Therm software	Rittal offers a modular system for demand-based power distribution. ■ Distribution and protection of the power supply focussing on standardisation and availability ■ Power Engineering software is used to plan and design low-voltage switchgear to IEC 61 439 with design verification, from page 446
	■ Heaters, from page 530 ■ Passive cooling: TopTherm fan-and-filter units, from page 456 ■ Protective canopies, from page 958 ■ Active: Thermoelectric coolers, from page 474 ■ Cooling units, from page 473 ■ Liquid cooling, from page 509 ■ Outdoor cooling unit, from page 496 ■ Accessories: IoT interface, from page 554	■ Rated current < 125 A RiLine Compact, from page 282 ■ Rated current < 250 A Mini-PLS, from page 294 ■ Rated current < 1600 A RiLine PLS, from page 299 ■ Rated current < 6300 A VX25 Ri4Power, from page 361

Power distribution software

Configurators/tools/CAD data

Power distribution

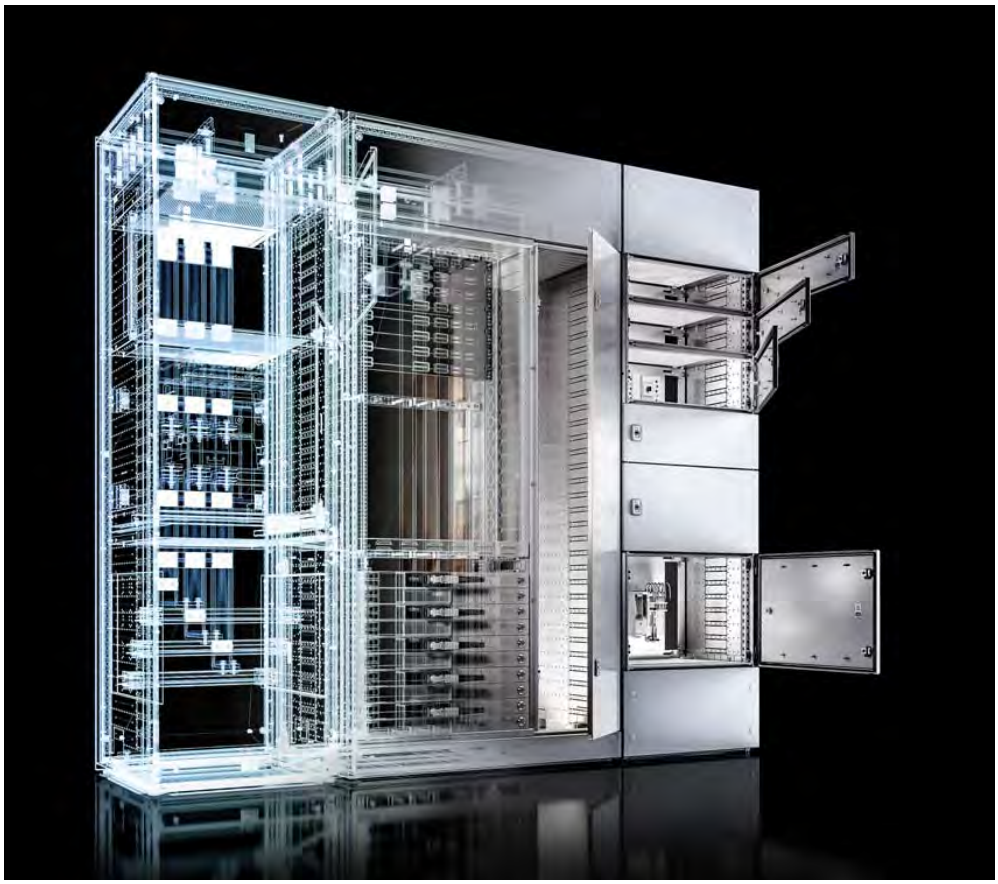
The VX25 Power Engineering planning software sets brand new standards when planning low-voltage switchgear. The Web-based tool guides users quickly and efficiently through the planning process in simple, logical steps.

VX25 Power Engineering

Efficient planning of low-voltage switchgear
From plant configuration, to calculation of the copper bars, through to generation of the design verification to IEC 61 439.

Benefits:
- The web-based application ensures that planning data is always up-to-date
- Parts list creation and assembly based on a specific set of rules
- Automatic calculation and documentation of the copper busbars
- Generation of a design verification to IEC 61 439

Note:
- Download free at www.rittal.com/software



Rittal Automation Systems

High productivity levels and consistent optimisation of all process steps, from page 561

Rittal – The System.

Faster – better – everywhere.

ENCLOSURES **POWER DISTRIBUTION** **CLIMATE CONTROL**

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