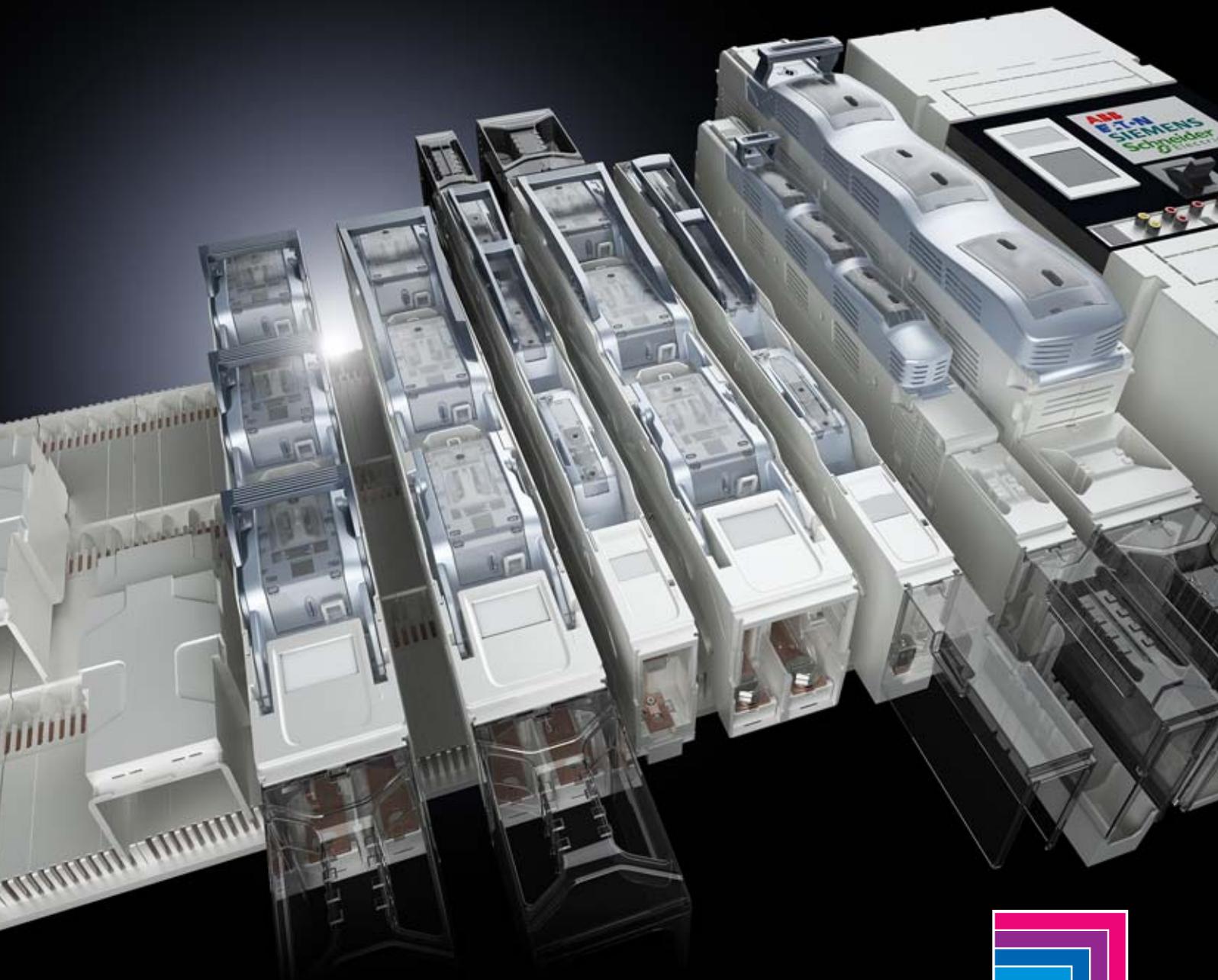


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▶ **VX25 Ri4Power 185 mm – Undoubtedly superior**



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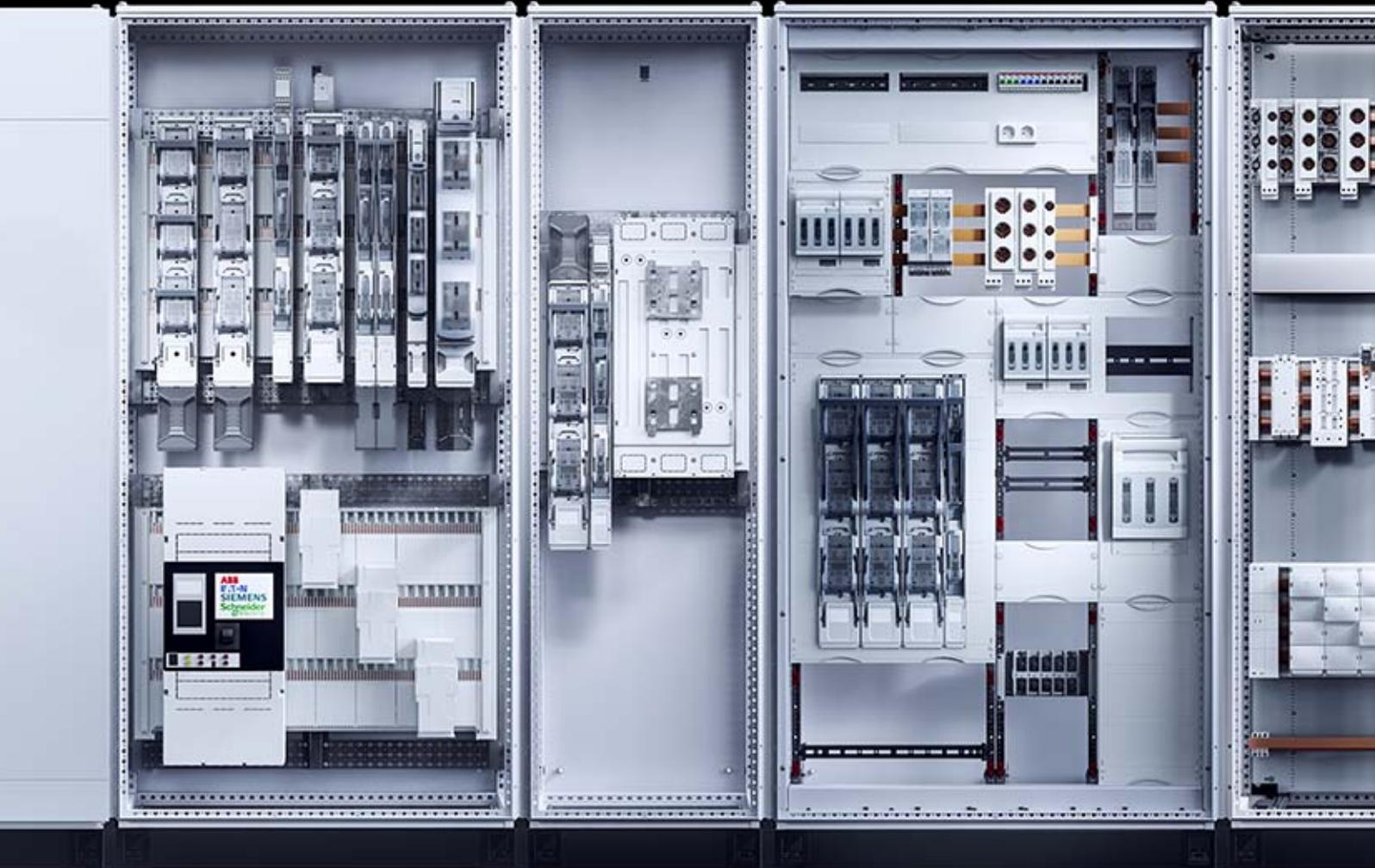
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Unlimited options from a single source.

For over 50 years, we have been redefining the future. We produce and develop solutions for you, our customers, covering enclosures, power distribution, climate control, IT infrastructure, software and services. The modular system architecture of our solutions enables them to be tailored to your specific needs and requirements – on a completely customised basis, depending on your industry and the size of your company, and directly from series production. We cater to a wide range of sectors – from mechanical and plant engineering and the automotive industry right through to information technology.

Based on the principle “Faster – better – everywhere”, our “Rittal – The System.” offers a perfectly coordinated system platform that combines innovative products, pioneering engineering solutions and worldwide service to meet a diverse range of requirements:

Faster – As a full-service provider, we help you with planning, assembly, conversion, commissioning and servicing.

Better – Our certified products and services are available off-the-shelf and deliver verifiable energy and cost efficiency.

Everywhere – Rittal offers solutions throughout the world for a variety of industries, including mechanical and plant engineering, IT and telecommunications.

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The tested complete solution – Enclosure and bar system

Rittal is one of the world's leading suppliers of reliable power distribution and backup systems. We can provide you with a tested solution comprising an enclosure and a busbar system. The VX25, as a standard enclosure, is ideal for industrial applications which demand high levels of protection for electrical and electronic equipment. Installation of the operating equipment in low-voltage switchgear is compliant with IEC 61 439 and documented with a design verification. After planning with Rittal Power Engineering, the design verification is easily generated with a single click.

What we offer

- Complete solution for central, compact power distribution
- Rated voltage up to 690 V
- Rated current up to 2100 A
- Short-circuit protection up to 50 kA
- Bar centre distance 185 mm
- Complete contact hazard protection up to IP 2XB (safe from finger-contact) from our system portfolio
- Precise-fit connection and component adaptors for tested, safe connection at high currents
- Fuse elements to suit all situations

How you benefit

- Assemble, install and upgrade systems with no drilling or removal of covers
- Busbar contacting – variable, contact hazard-protected from the outset, no drilling required
- Suitable for all standard protective gear and switch-gear currently available on the market
- Busbar shielding integrated into the cover section to prevent accidental arcing
- User-friendly project planning and generation of a design verification with the Rittal Power Engineering configuration software

Further information

 www.rittal.com

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ENCLOSURES

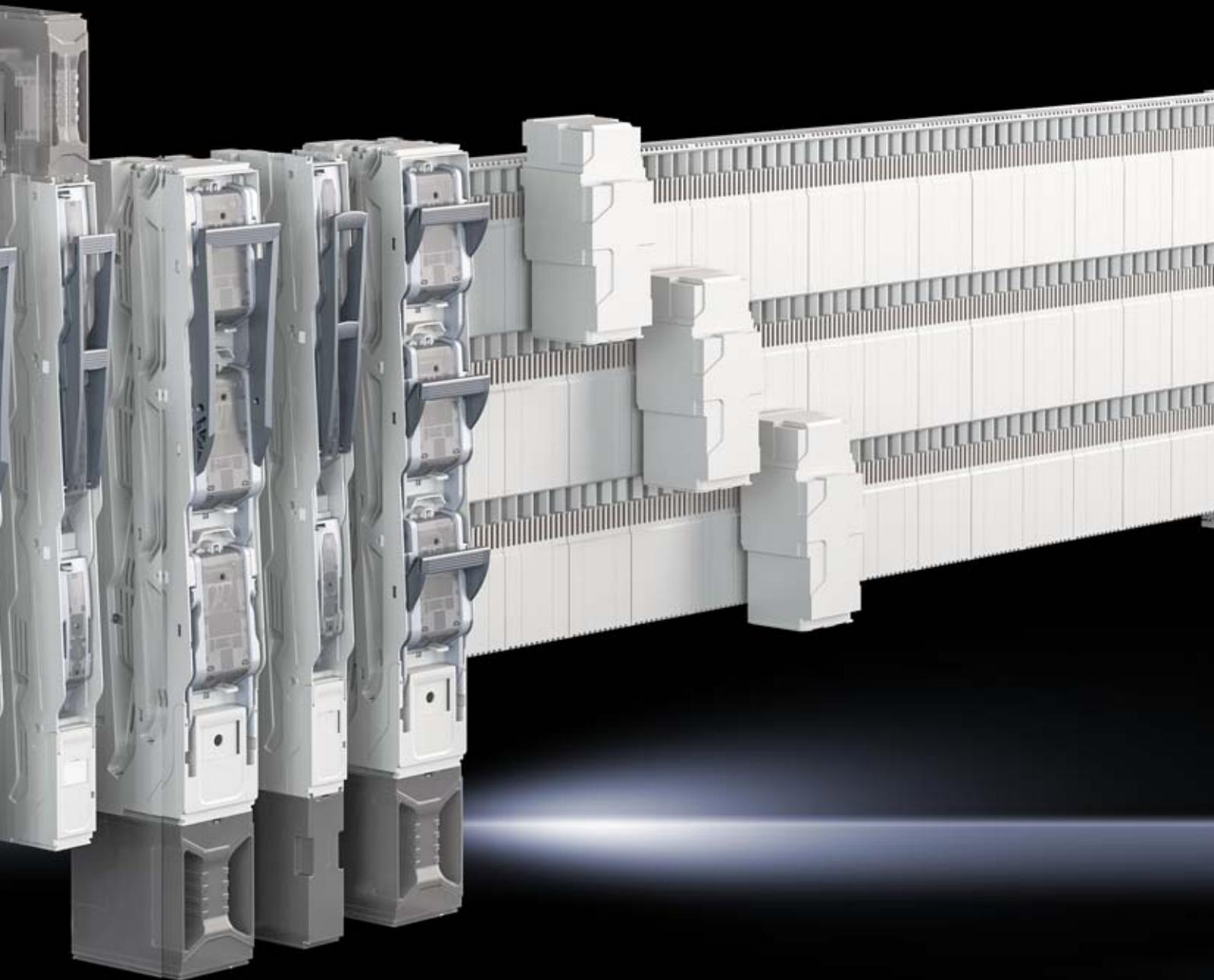
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The system – Simply secure

With due regard for financial aspects and the requirements of the current standard IEC 61 439, the new VX25 Ri4Power 185 mm busbar system with 185 mm bar centre distance is ideal for configuring a compact, secure power distributor system.



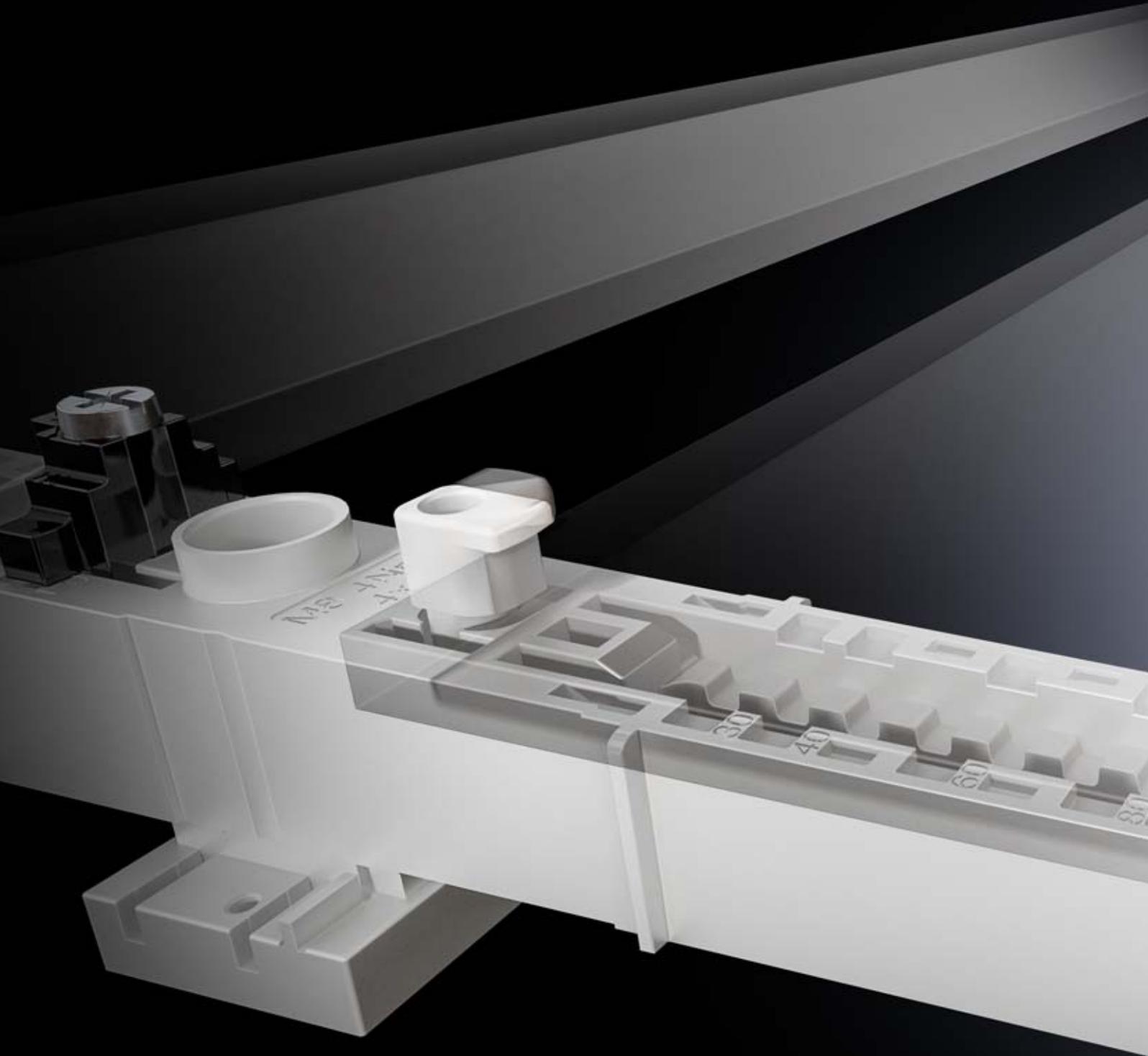
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Assembly – Simple and standardised

The 185 mm system has been engineered for fast, reliable installation with standardised components and assembly steps. Contact hazard protection cover plates are available in sets for any enclosure width, and include all the necessary components for configuring the enclosure.

The busbar support is positioned using the system attachments so that no configuration space is lost. The entire enclosure width is available to use. Other user-friendly features include no-drill assembly and simple adaptation to various bar cross-sections. Allowance is also made for busbar baying, with full integration into the contact hazard protection system.



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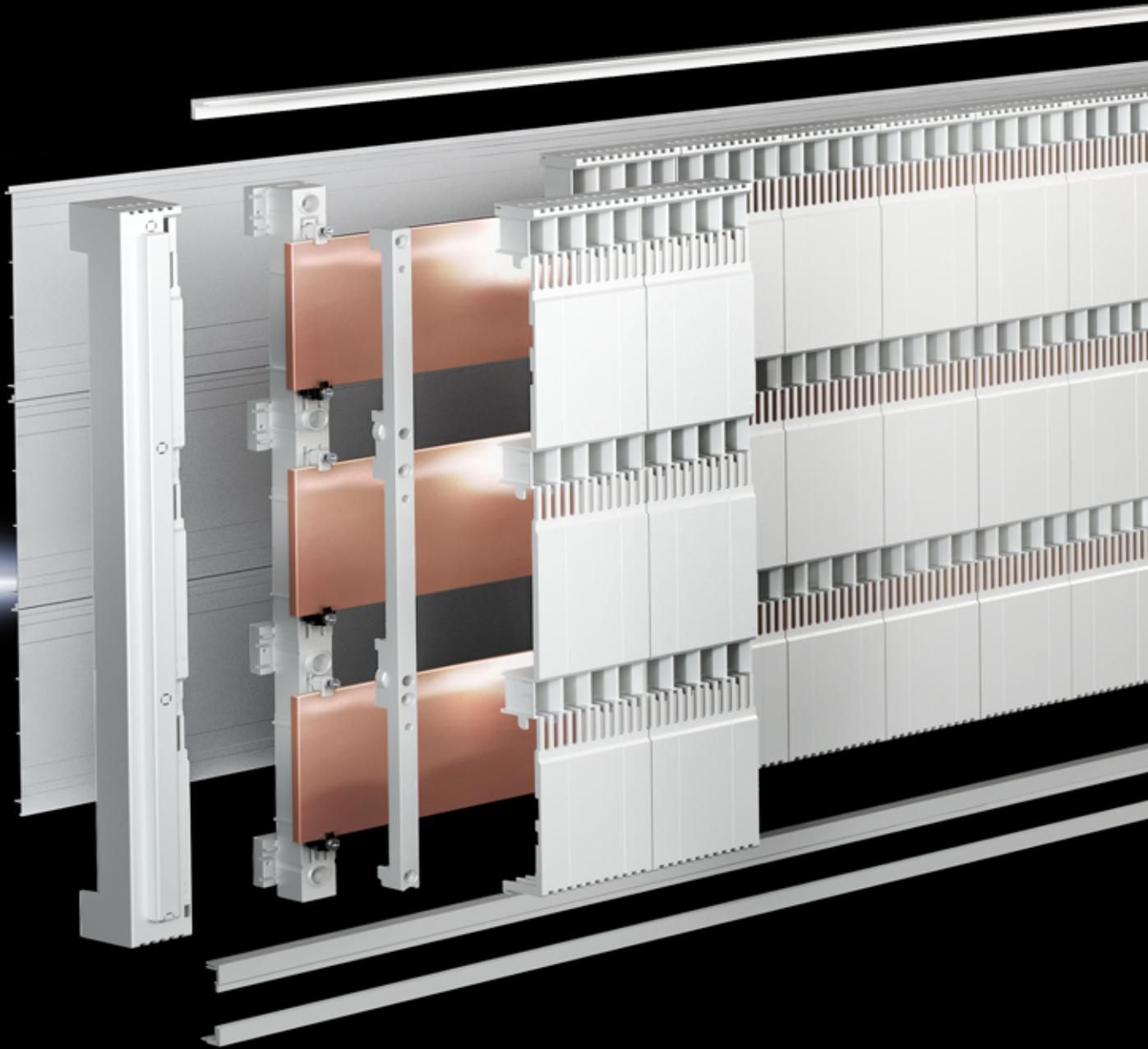
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System assembly – No drilling required

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

- Position the system attachment in the enclosure
- Secure the busbar assembly
- Clip the cover system into place



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



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ENCLOSURES

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Current transmission – Low-loss and reliable

The sophisticated busbar contact system revolutionises current transmission, and offers the best possible protection from the outset. Simply lock home for reliable, low-loss contact – no measuring or drilling required. And best of all: Air is still able to circulate between the new standardised earthing elements, significantly reducing temperature rise, which in turn enables higher loads.



IT INFRASTRUCTURE

SOFTWARE & SERVICES



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



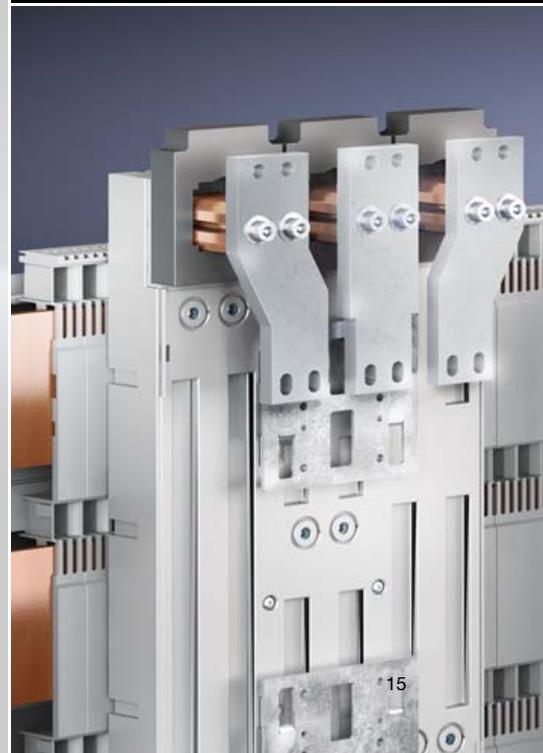
Component adaptors for compact circuit-breakers

- 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



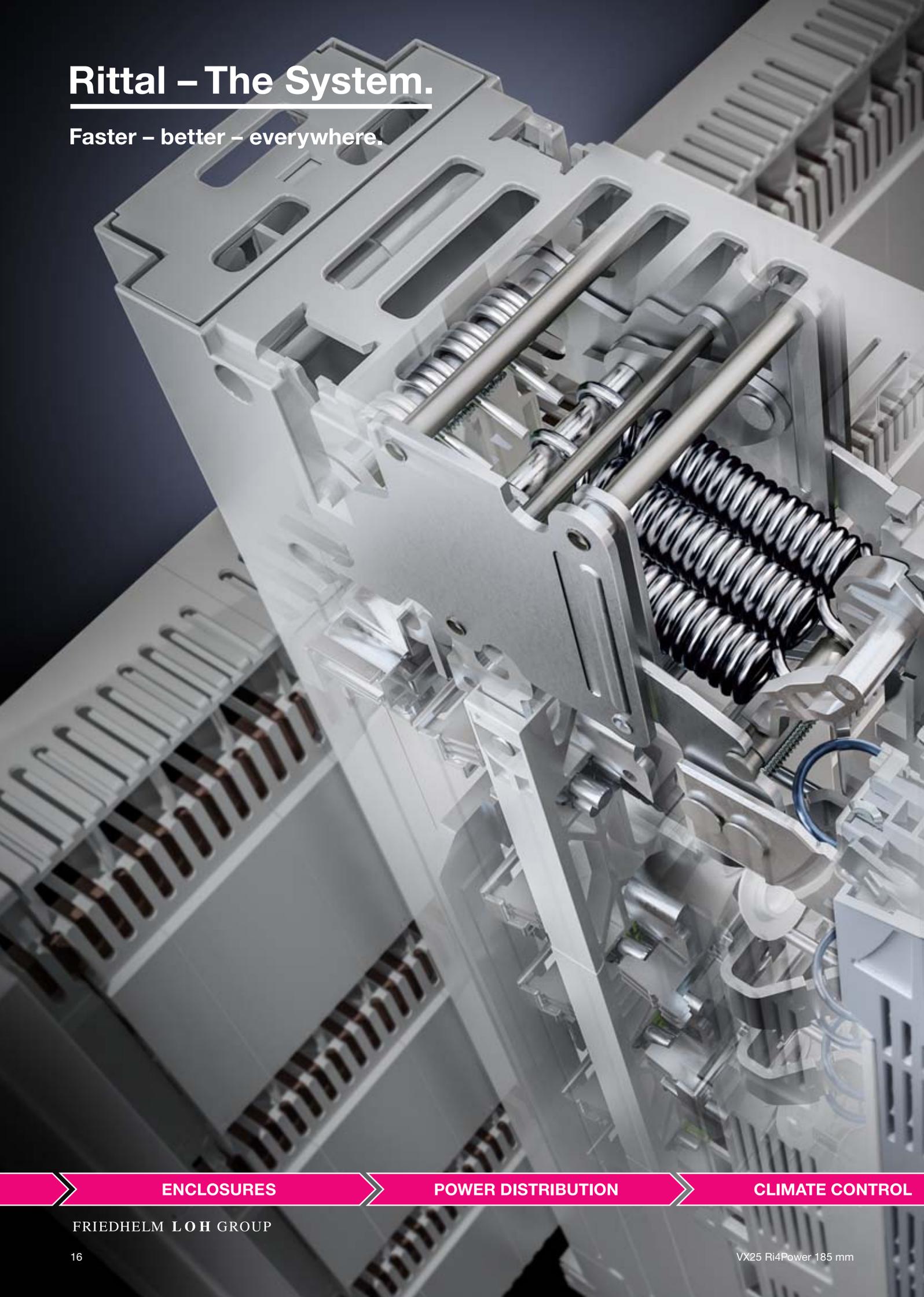
Connector kit and transformer

- 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



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The switching operation – Fast and safe

The actual switching operation is performed mechanically, independently of the operator, by means of an integrated quick-break contact. This guarantees reliable switching operations at all times.

The double-break contacts ensure that all poles are de-energised when replacing a fuse. Only then can the fuse cover be removed and the fuse replaced safely.

Vertical arrangement of the bars minimises reciprocal temperature rises occurring when multiple bars are arranged on top of one another horizontally. This vertical arrangement also facilitates easier cable connection, and there is no need for a separate cable connection space at the side.

IT INFRASTRUCTURE

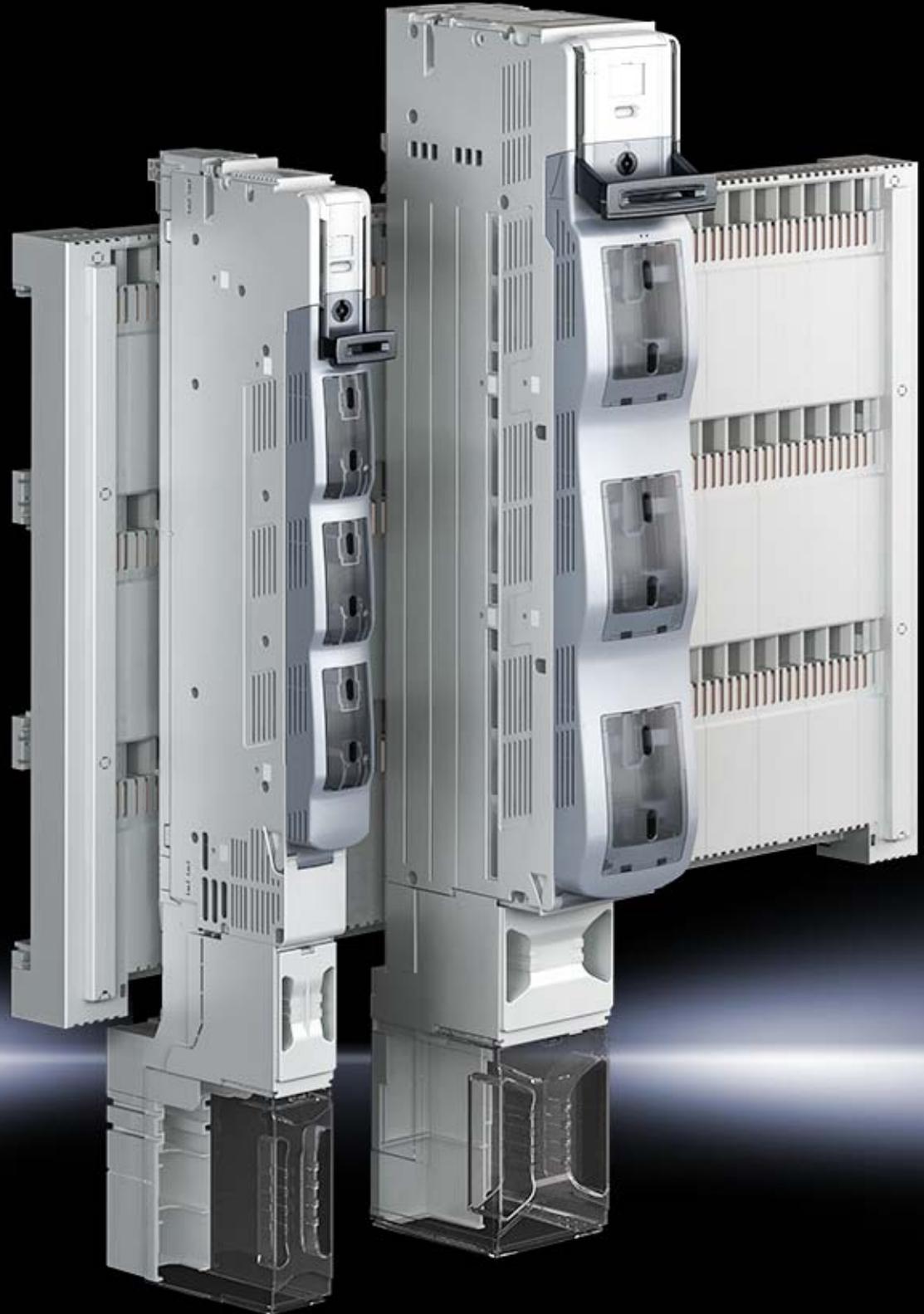
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Disconnect and switch with one device

The NH slimline switch-disconnectors for operator-independent disconnection and switching with fuses

- Integral quick-break contact with double-break ensures safe operation
- User-friendly cable connection from above or below
- May be combined with component adaptors and NH slimline fuse-switch disconnectors



NH slimline switch-disconnectors

- Suitable for fuse sizes 00 to 3
- No-drill contacting with clamping screw attachment
- Optionally with electronic fuse monitoring



Operator-independent switch element

- Fast switching operation with quick-break contact
- Double-break allows fuse replacement with the system de-energised
- Lid lock can only be released with a tool
- Integral switch position display



Cable connection space

- User-friendly cable connection optionally from above or below
- Connection of various conductor types
- Extended contact hazard protection for the connection space



Fuse elements to suit all situations

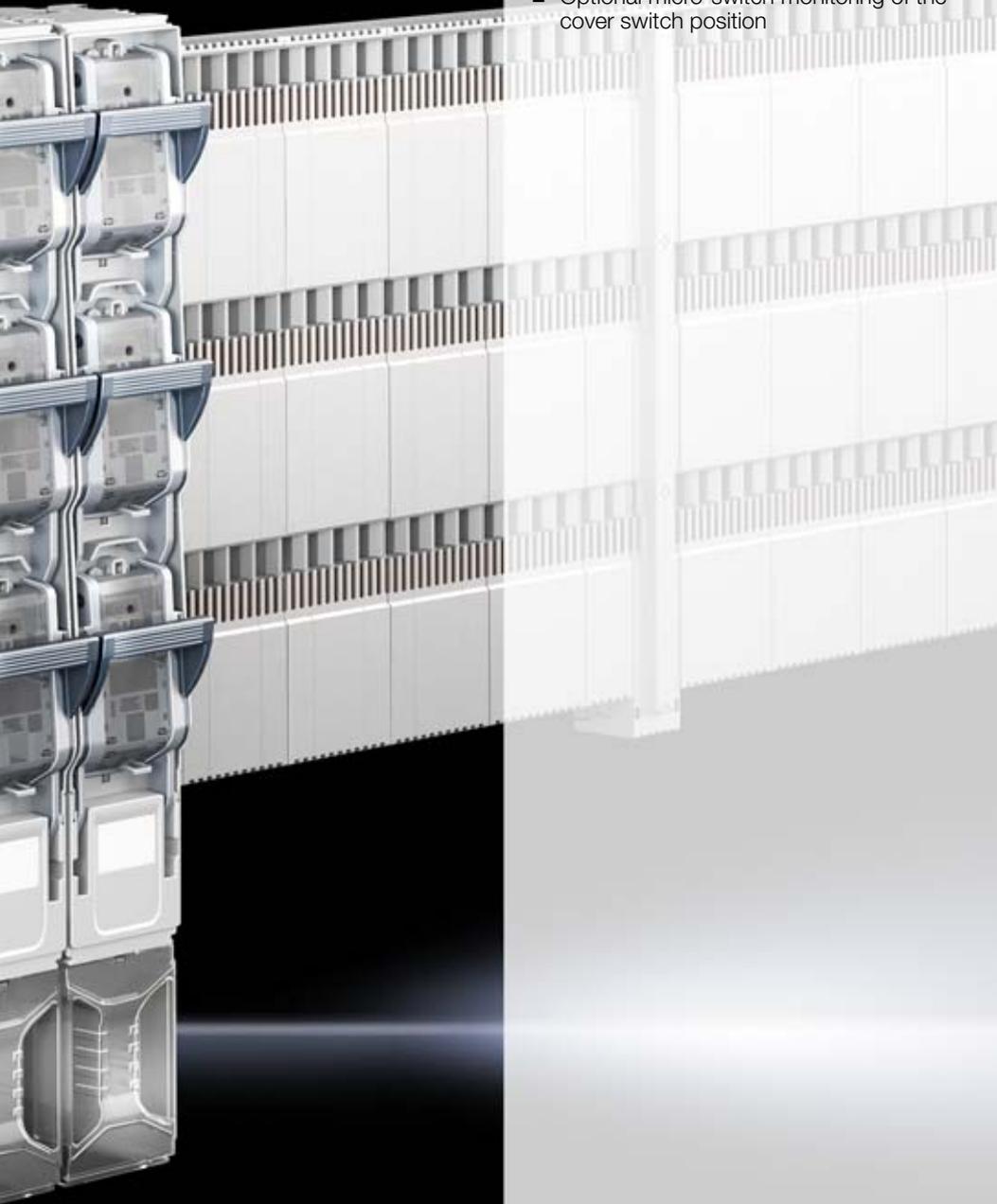
The system of NH slimline fuse-switch disconnectors is based on separate air routing for heat dissipation, and targeted removal of switching gases.

- Simple device assembly
- Single-pole or 3-pole, switchable
- 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



Busbar support (185 mm)



Connection block Page 24 **Component adaptor** Page 25 **Connection adaptor** Page 26 **NH slimline switch-disconnectors** Page 28

Material:

- Polyamide (PA 6.6)
- 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 busbars 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	23
Contact hazard protection cover plate		see page	35
End cover	2 pc(s).	9677.600	35

Busbar system 185 mm

Busbar support

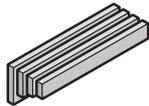
Note:

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	22

Busbars E-Cu, length: 2400 mm/bar



Dimensions mm	Packs of	Model No.	Page
40 x 10	3 pc(s).	3587.000	
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	34
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System attachment



For enclosure width mm	Packs of	Model No.	Page
600	1 pc(s).	9677.511	34
800	1 pc(s).	9677.521	
1000	1 pc(s).	9677.531	
1200	1 pc(s).	9677.541	

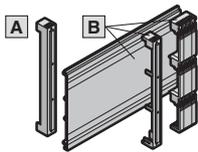
Accessories

Punched section with mounting flange, 23 x 64 mm



For enclosure depth mm	Packs of	Model No.	Page
500	4 pc(s).	8617.120	34
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	35
B Contact hazard protection cover plate (cover section, base tray, trim section)	600	1 pc(s).	9677.550	35
	800	1 pc(s).	9677.560	
	1000	1 pc(s).	9677.570	
	1200	1 pc(s).	9677.580	

Connection adaptor



Busbar system Page 22 **Connection block** Page 25 **Component adaptor** Page 26 **NH slimline switch-disconnectors** Page 28

Material:

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

Note:

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

Colour:

- RAL 7035

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		Bottom	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	37
Busbar terminal	3 pc(s).	9677.480	9677.480	38

Connection block



Busbar system Page 22 **Connection adaptor** Page 24 **Component adaptor** Page 26 **NH slimline switch-disconnectors** Page 28

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	36
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Component adaptor



Busbar system Page 22 **Connection adaptor** Page 24 **Connection block** Page 25 **NH slimline switch-disconnectors** Page 28

Material:

- Polyamide (PA 6.6)
- 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	36
Contact hazard protection cover plate		-	see page	see page	37

Component adaptor



Busbar system Page 22 **Connection adaptor** Page 24 **Connection block** Page 25 **NH slimline switch-disconnectors** Page 28

Material:

- Polyamide (PA 6.6)
- 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	36
Contact hazard protection cover plate		-	see page	see page	37

NH slimline fuse-switch disconnecter



Busbar system Page 22 **Connection adaptor** Page 24 **Connection block** Page 25 **Component adaptor** Page 26

Material:

- Polyamide (PA 6.6)
- 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	37
Contact terminal	3 pc(s).	9677.450	9677.460	9677.460	9677.460	37
Busbar terminal	3 pc(s).	9677.470	9677.480	9677.480	9677.480	38
Prism terminal	3 pc(s).	9677.420	-	-	-	38
V connection terminal	3 pc(s).	-	9677.430	9677.430	9677.440	38
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	3071.000	42
Current converter	1 pc(s).	9677.810	see page	see page	see page	39
Cover	5 pc(s).	-	9677.415	9677.415	9677.415	40

NH slimline fuse-switch disconnecter

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 mm ²		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	37
Contact terminal	3 pc(s).	9677.450	9677.450	9677.460	37
Busbar terminal	3 pc(s).	9677.470	9677.470	9677.480	38
Prism terminal	3 pc(s).	9677.420	–	–	38
V connection terminal	3 pc(s).	–	–	9677.430	38
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	42
Current converter	1 pc(s).	9677.810	9677.810	see page	39
Cover	5 pc(s).	–	–	9677.415	40

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 mm ²		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	–	37
Contact terminal	3 pc(s).	9677.460	9677.460	9677.460	37
Busbar terminal	3 pc(s).	9677.480	9677.480	9677.480	38
Prism terminal		–	–	–	
V connection terminal	3 pc(s).	9677.430	9677.440	–	38
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	42
Current converter		see page	see page	see page	39
Cover	5 pc(s).	9677.415	9677.415	–	40

NH slimline fuse-switch disconnecter



Busbar system Page 22 **Connection adaptor** Page 24 **Connection block** Page 25 **Component adaptor** Page 26

Material:

- Polyamide (PA 6.6)
- 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	37
Contact terminal	3 pc(s).	9677.450	9677.460	9677.460	9677.460	37
Busbar terminal	3 pc(s).	9677.470	9677.480	9677.480	9677.480	38
Prism terminal	3 pc(s).	9677.420	-	-	-	38
V connection terminal	3 pc(s).	-	9677.430	9677.430	9677.440	38
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	3071.000	42
Current converter	1 pc(s).	9677.810	see page	see page	see page	39
Cover	5 pc(s).	-	9677.415	9677.415	9677.415	40

NH slimline switch-disconnector



Busbar system Page 22 **Connection adaptor** Page 24 **Connection block** Page 25 **Component adaptor** Page 26

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	37
Connection space cover, rear	1 pc(s).	9677.402	9677.402	9677.402	9677.402	40
Clamp-type terminal	3 pc(s).	9677.425	9677.425	9677.425	9677.425	41
Box terminal		-	-	-	-	
Contact terminal		-	-	-	-	
Micro-switch	1 pc(s).	9677.418	9677.418	9677.418	9677.418	42
Current converter	1 pc(s).	9677.810	9677.810	9677.810	9677.810	39

NH slimline switch-disconnector

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	37
Connection space cover, rear	1 pc(s).	9677.412	9677.412	9677.412	40
Clamp-type terminal		–	–	–	
Box terminal		see page	see page	see page	41
Contact terminal	3 pc(s).	9677.485	9677.485	9677.485	42
Micro-switch	1 pc(s).	9677.418	9677.418	9677.418	39
Current converter		–	–	–	

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	37
Connection space cover, rear	1 pc(s).	9677.412	9677.412	9677.412	40
Clamp-type terminal		–	–	–	
Box terminal		see page	see page	see page	41
Contact terminal	3 pc(s).	9677.485	9677.485	9677.485	41
Micro-switch	1 pc(s).	9677.418	9677.418	9677.418	42
Current converter		–	–	–	

NH slimline switch-disconnector



Busbar system Page 22 **Connection adaptor** Page 24 **Connection block** Page 25 **Component adaptor** Page 26

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	37
Connection space cover, rear	1 pc(s).	9677.402	9677.402	9677.412	9677.412	9677.412	40
Clamp-type terminal	3 pc(s).	9677.425	9677.425	-	-	-	41
Box terminal		-	-	see page	see page	see page	41
Contact terminal	3 pc(s).	-	-	9677.485	9677.485	9677.485	41
Micro-switch	1 pc(s).	9677.418	9677.418	9677.418	9677.418	9677.418	42
Current converter	1 pc(s).	9677.810	9677.810	-	-	-	39

Busbar system 185 mm

Accessories



System attachment

for VX

For attaching busbar systems with 185 mm centre-to-centre spacing in VX enclosures.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

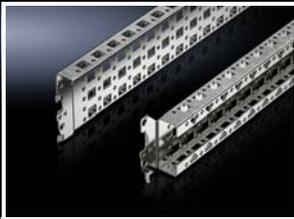
Supply includes:

- 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.



Punched section with mounting flange, 23 x 64 mm

for VX

For variable, individual interior installation of the enclosure frame on the inner mounting level.

Benefits:

- Simply locate into the system punchings and screw-fasten
- System punchings on all four sides
- With slots at the top and bottom for cage nuts, for attaching your own components via metric screws

Installation options:

- On the horizontal and vertical VX enclosure section, on the inner mounting level
- Base/plinth VX in the width and depth, combined with an base/plinth installation bracket
- On identical punched sections with mounting flanges

Material:

- Sheet steel

Surface finish:

- Zinc-plated

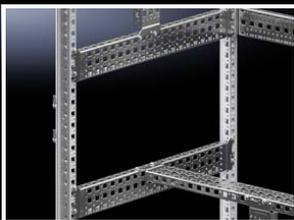
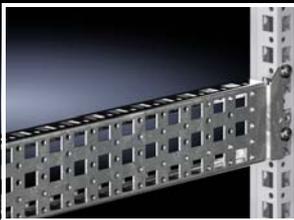
Supply includes:

- Assembly parts

For enclosure width/height/depth mm	Packs of	Model No.
500	4 pc(s).	8617.120
600	4 pc(s).	8617.130
800	4 pc(s).	8617.140

Accessories:

- Cable ties, see VX25 brochure, page 188
- Captive nuts, see VX25 brochure, page 157
- Base/plinth installation bracket, see VX25 brochure, page 89



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 busbars 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

Busbar system 185 mm

Accessories

End cover

for busbar supports

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

Material:

- Polyamide (PA 6.6)
- 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 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 (PA 6.6)
- Centre cover: Polyamide (PA 6.6)

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 35



Cover strip

for contact hazard protection cover

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

Material:

- Polyamide (PA 6)
- Fire protection corresponding to UL 94-V0

Colour:

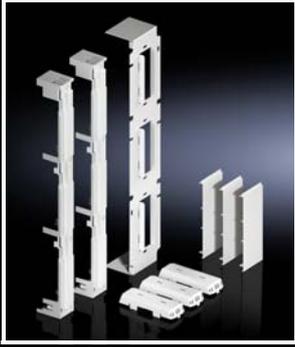
- RAL 7035

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



Busbar system 185 mm

Accessories



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 (PA 6.6)
- Centre cover: Polyamide (PA 6.6)

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



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

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.

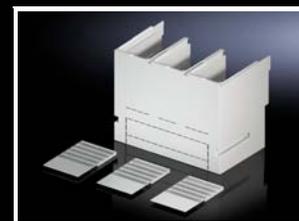
Material:

- Polyamide (PA 6.6)
- 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 systems with contact hazard protection cover (cover section, slotted)

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



Busbar system 185 mm

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 adaptor	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 slimline switch-disconnector (185 mm centre-to-centre spacing); this allows space-saving assembly.

Material:

- Polyamide (PA 6.6)

Basis of test:

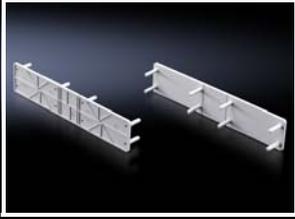
- IEC 60 044-1
- EN 60 715
- DIN VDE 0414
- DIN 42 600-2



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)			
Rated power input VA	2.5	1.5	2.5	2.5	2.5
Packs of	1 pc(s).				
Model No.	9677.810	9677.840	9677.860	9677.870	9677.880

Busbar system 185 mm

Accessories



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

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.

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

Busbar system 185 mm

Accessories

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



Busbar system 185 mm

Accessories



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	NH fuse-switch disconnectors, size 000/00 NH fuse-switch disconnectors, size 00 - 3 (185 mm)
Rated operating current max. A	5
Rated operating voltage V	250
Packs of	5 pc(s).
Model No.	3071.000



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

List of model numbers and index

Model No.	Page						
3071.000	42	9677.210	28	9677.450	37	9677.760	36
3587.000	23	9677.215	30	9677.460	37	9677.770	26
3589.005	23	9677.260	32	9677.470	38	9677.780	27
3590.005	23	9677.265	32	9677.480	38	9677.790	37
3590.015	23	9677.280	33	9677.485	41	9677.792	37
3590.020	23	9677.300	29	9677.500	22	9677.794	37
8617.120	34	9677.310	28	9677.511	34	9677.796	37
8617.130	34	9677.315	30	9677.521	34	9677.798	37
8617.140	34	9677.340	29	9677.531	34	9677.810	39
9677.000	29	9677.360	32	9677.541	34	9677.840	39
9677.010	28	9677.365	32	9677.550	35	9677.860	39
9677.015	30	9677.380	33	9677.560	35	9677.870	39
9677.025	29	9677.400	37	9677.570	35	9677.880	39
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9677.065	31	9677.405	37	9677.600	35	9677.905	24
9677.070	31	9677.407	40	9677.610	34	9677.910	25
9677.075	31	9677.410	37	9677.620	34	9677.915	25
9677.080	33	9677.412	40	9677.640	36	9677.920	25
9677.085	33	9677.415	40	9677.650	35	9677.925	36
9677.100	29	9677.418	42	9677.700	26		
9677.110	28	9677.420	38	9677.705	27		
9677.115	30	9677.425	41	9677.710	26		
9677.160	32	9677.430	38	9677.715	27		
9677.165	32	9677.435	41	9677.730	36		
9677.180	33	9677.440	38	9677.740	36		
9677.200	29	9677.445	41	9677.750	36		

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Adaptor
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– for 185 mm busbar system 22
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– 185 mm 23
Busbar terminal
– for NH slimline fuse-switch disconnectors 38

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