Rittal – The System.

Faster – better – everywhere.

VX25 Ri4Power

Modular system for scalable low-voltage switchgear and power distributors

ENCLOSURES | POWER DISTRIBUTION | CLIMATE CONTROL | IT INFRASTRUCTURE | SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

VX25. SYSTEM PERFECTION.

System perfection. Solutions from Rittal.

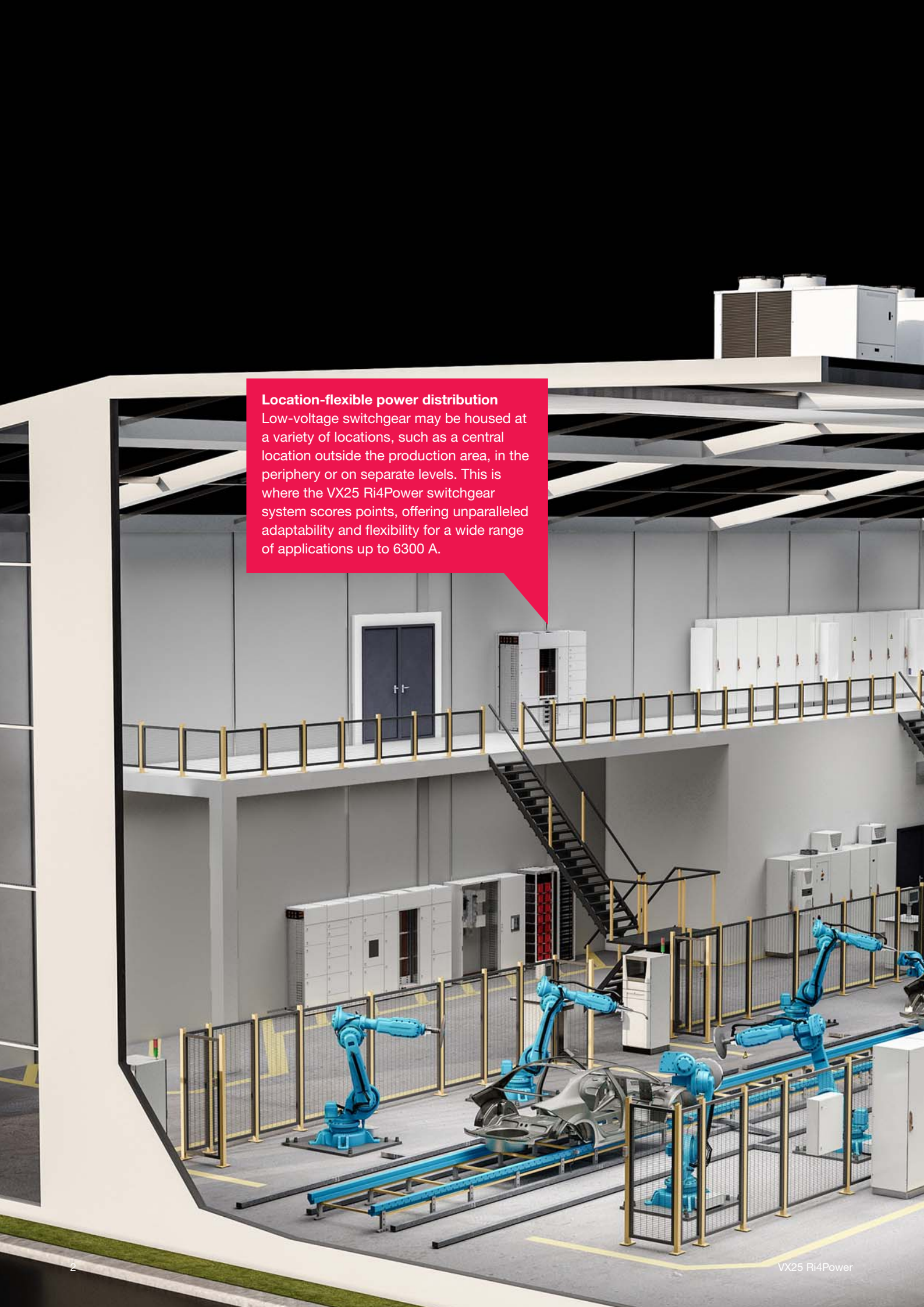
The future is shaped by innovative companies with the ability to supply smart solutions to their partners in industry, mechanical & plant engineering and IT. Rittal are global market and innovation leaders, and expert problem-solvers. Based on our performance promise “faster – better – everywhere”, we provide our customers with comprehensive support along the entire value chain, to gain a crucial competitive edge.

Best proof: the VX25. A large enclosure built to Industry 4.0 standards for world-class, digitally networked technology. The perfect solution to accommodate demands for increased productivity and assembly speed, and further proof that our passion and inventiveness create sustainable solutions that take our customers to the cutting-edge of technology.

Our VX25 Ri4Power complete modular system is continuously being refined and improved, and new functions are added. VX25 Ri4Power – ready for your challenges.

VX25. SYSTEM PERFECTION.

VX25 Ri4Power

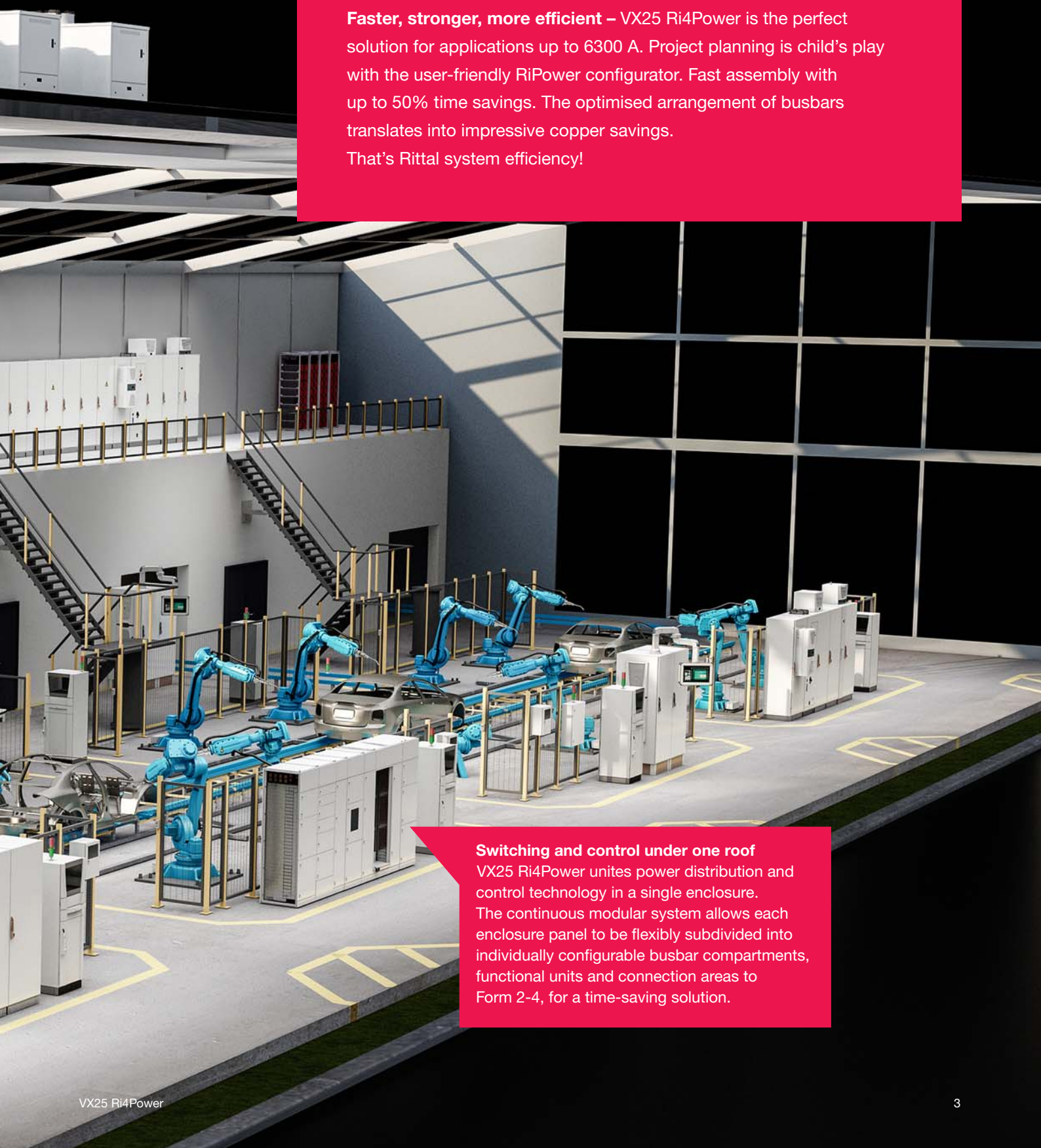


Location-flexible power distribution
Low-voltage switchgear may be housed at a variety of locations, such as a central location outside the production area, in the periphery or on separate levels. This is where the VX25 Ri4Power switchgear system scores points, offering unparalleled adaptability and flexibility for a wide range of applications up to 6300 A.

THE COMPLETE SOLUTION

Enclosure and busbar system in one – The Rittal VX25 enclosure system and the Rittal VX25 Ri4Power switchgear system together form a complete solution for the assembly of type-tested low-voltage switchgear with internal form separation.

Faster, stronger, more efficient – VX25 Ri4Power is the perfect solution for applications up to 6300 A. Project planning is child's play with the user-friendly RiPower configurator. Fast assembly with up to 50% time savings. The optimised arrangement of busbars translates into impressive copper savings.
That's Rittal system efficiency!



Switching and control under one roof
VX25 Ri4Power unites power distribution and control technology in a single enclosure. The continuous modular system allows each enclosure panel to be flexibly subdivided into individually configurable busbar compartments, functional units and connection areas to Form 2-4, for a time-saving solution.

ACB section
For the infeed and output of large currents into and from the switchgear. Air circuit-breakers are used to protect people and machines.

Cable chamber
For distributing cables and lines leading into or out of compartments, to provide cable management for outgoing sections. Cable entry is optionally from above or below.

Outgoing section
For the installation of circuits with switchgear, power supply outlets, controllers, switchgear units, fused outgoing feeders and much more, allowing circuits and controllers to be combined under one roof.

Fuse-switch disconnector section
For compact, variable distribution of electric power with fused switchgear. Plug-type NH slimline fuse-switch disconnectors are used here, supported by vertical multi-terminal busbar systems.

Ri4Power

THE SECTION TYPES

Modular section system
The VX25 Ri4Power allows you to create different sections within a switchgear or power distribution system to perform these tasks.

Energy storage section
The infrastructure solution for battery energy storage solutions: The modular system allows you to compile bespoke enclosures from Rittal standard components to suit the individual storage system.

Form 2b
As effective protection against accidental contact with the busbar. Designed as an internal sub-division of the busbar compartment into functional space and adjacent compartment.

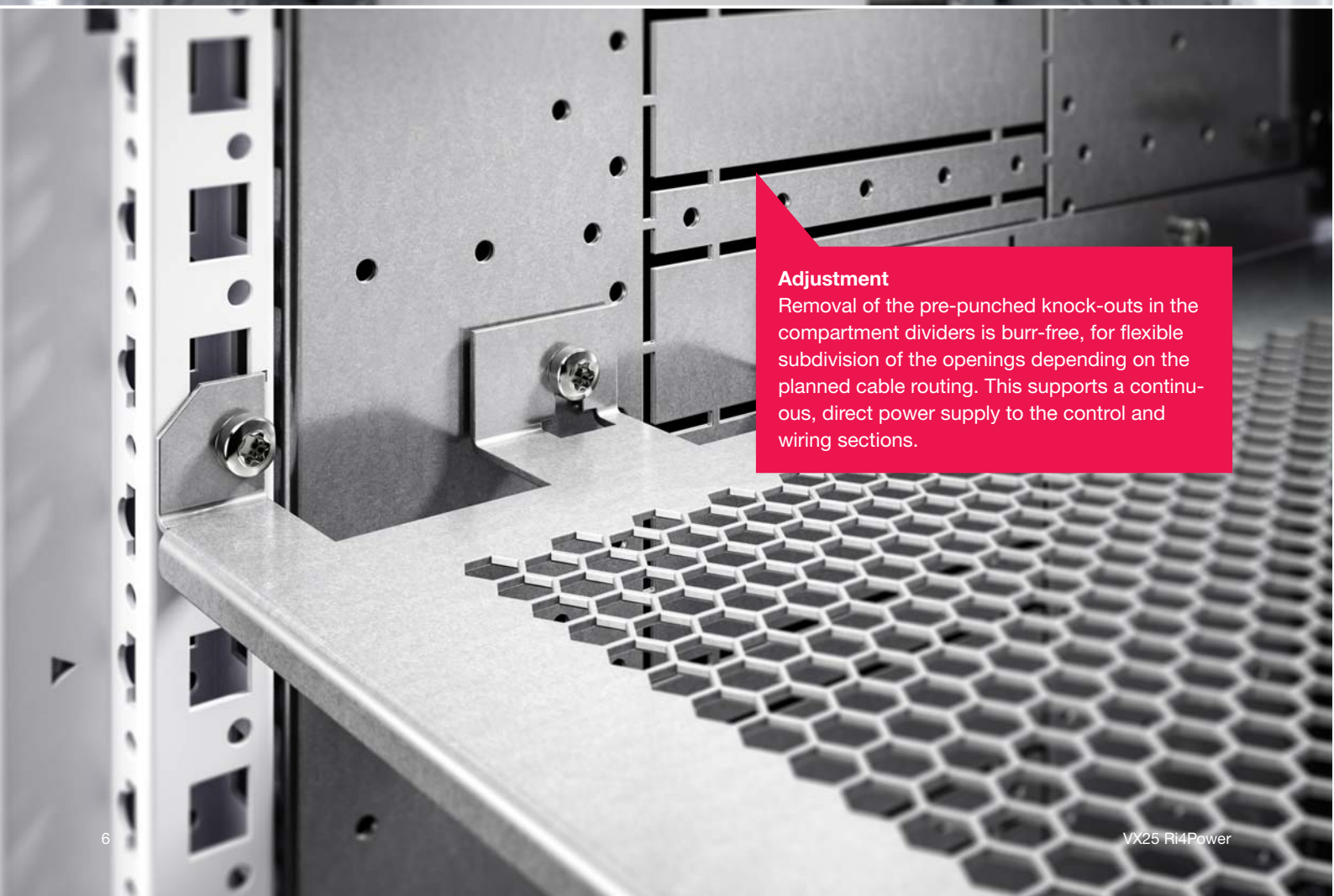
Coupling section
For disconnecting or connecting busbar systems within low-voltage equipment.
Also for maintaining machine and plant uptime, because individual sub-sections may be disconnected separately.

Tested safety

- The VX25 Ri4Power switchgear system is continuously type-tested to international standard IEC 61 439-1
- Tests with ASTA certification
- Protection category up to IP 54
- Tested accidental arcing protection to IEC 61 641
- Additional accidental arcing protection as a preventive measure

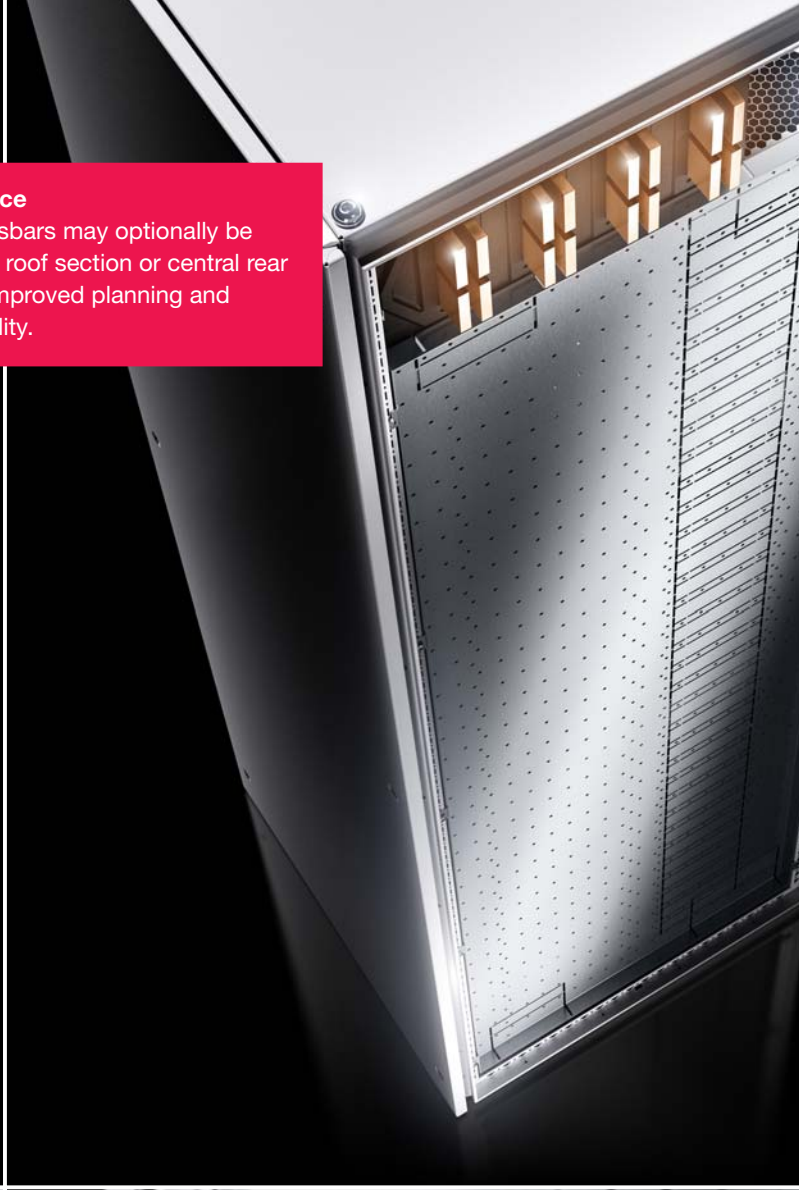
Complete partitioning
Compartment side panels matching the enclosure height instantly shield all the functional spaces below. This replaces individual vertical partitions from section to section and reduces the number of components and assembly time required.

Flexibility
The 25 mm enclosure section pitch pattern and side panel perforations allow fast, height-flexible assembly of the horizontal compartment dividers with minimal parts. They simply slide into position like a baking tray in an oven.

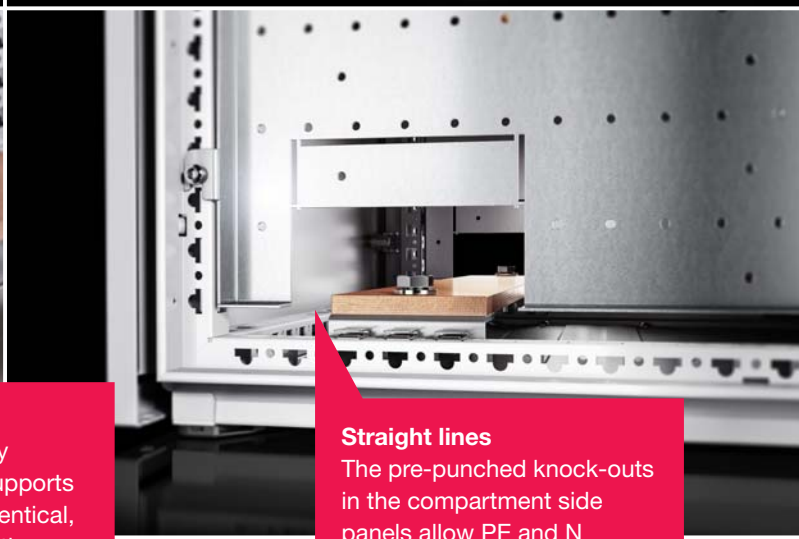


Adjustment
Removal of the pre-punched knock-outs in the compartment dividers is burr-free, for flexible subdivision of the openings depending on the planned cable routing. This supports a continuous, direct power supply to the control and wiring sections.

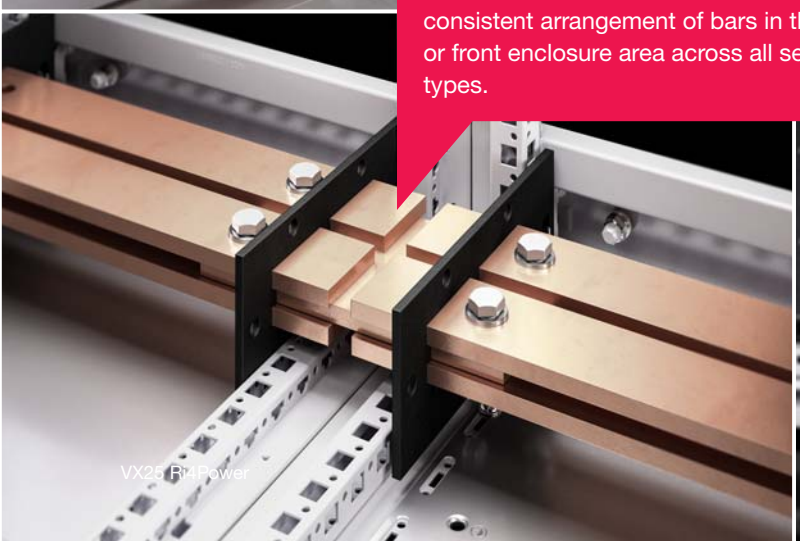
Independence
The main busbars may optionally be routed in the roof section or central rear section for improved planning and space flexibility.



Continuity
Connecting PE or N conductors by directly screw-fastening the bar supports to the frame section ensures an identical, consistent arrangement of bars in the rear or front enclosure area across all section types.

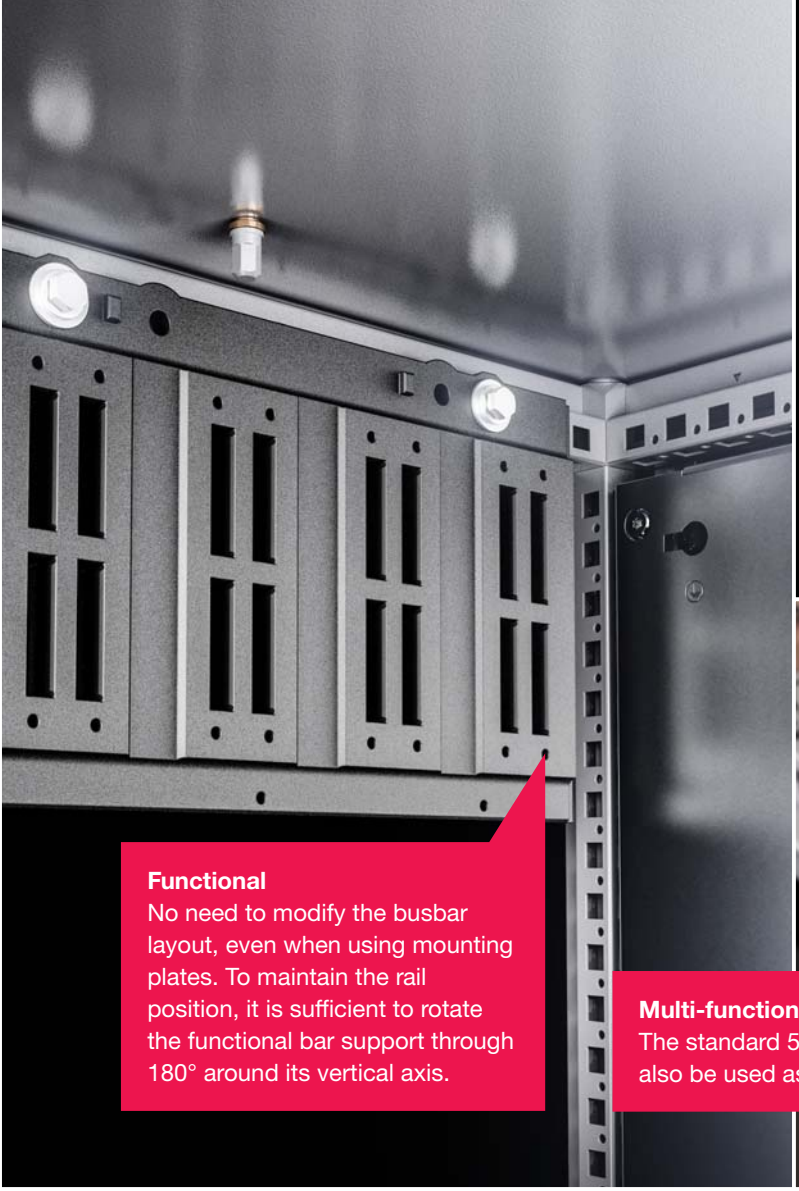


Straight lines
The pre-punched knock-outs in the compartment side panels allow PE and N conductors to be continued across sections, for straight-line routing through all section types.

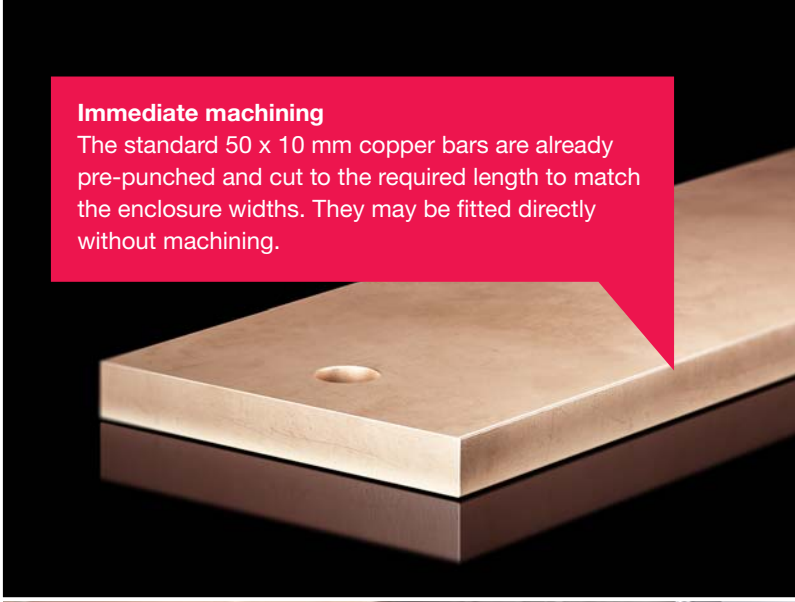


Reduced number of items
The 25 mm pitch pattern allows top busbar supports to be mounted directly onto the enclosure section. Just three screws is all you need. No further components are required.

Copper savings
Standard bars are available in 30 x 10 mm and 50 x 10 mm. The stable enclosure busbar system and the arrangement of the bars support a higher current-carrying capacity with an identical copper bar cross-section.



Functional
No need to modify the busbar layout, even when using mounting plates. To maintain the rail position, it is sufficient to rotate the functional bar support through 180° around its vertical axis.



Immediate machining
The standard 50 x 10 mm copper bars are already pre-punched and cut to the required length to match the enclosure widths. They may be fitted directly without machining.

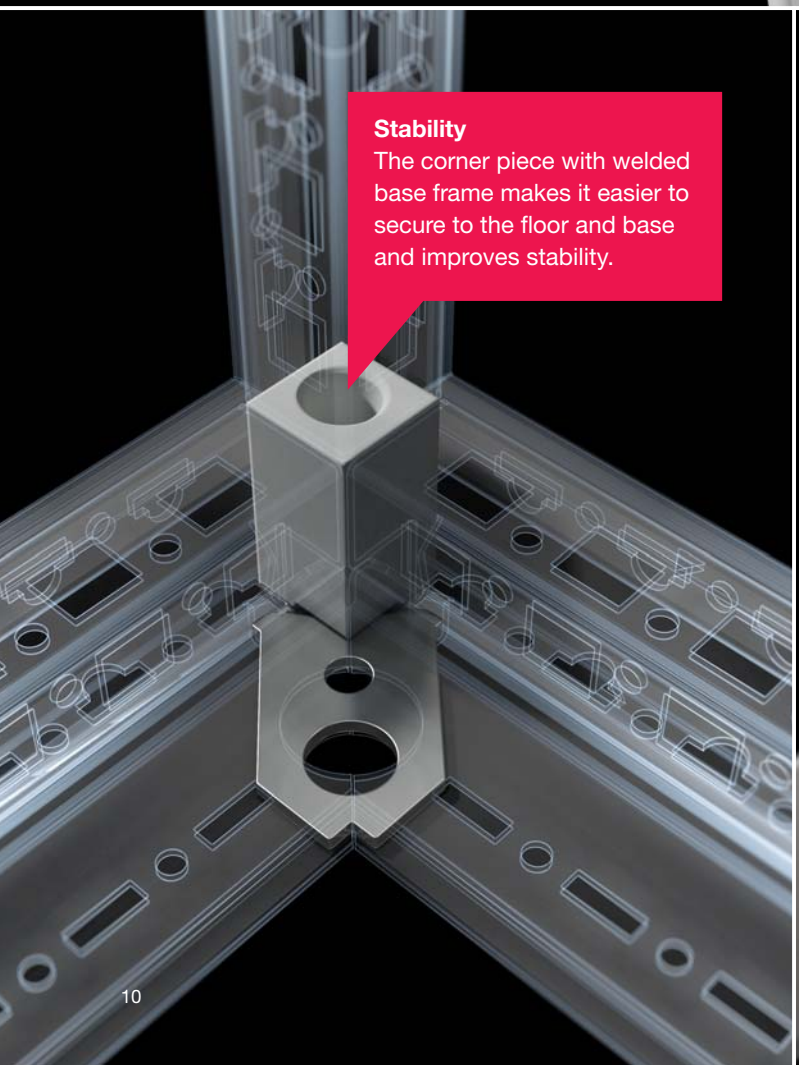
Multi-functionality
The standard 50 x 10 mm copper bars may also be used as a neutral conductor.

Fast attachment
The open busbar support can additionally accommodate the quick-release fastener for simple, fast connection to the next section.

Bar termination
The solid bar support is used as a termination.

Health and safety at work
Rounded edges ensure optimum work safety standards when populating the enclosure.

Stability
The seamlessly laser-welded, rolled enclosure profile ensures optimum force transmission on installed equipment.



Stability
The corner piece with welded base frame makes it easier to secure to the floor and base and improves stability.

Labour-saving
With one-person assembly, the positioning aid for the side and rear panels is an ideal, user-friendly preliminary fixing, leaving both hands free to screw-fasten the panels into position.

Installation options
The continuous pattern of square punchings supports the use of M6/M8 cage nuts to create more mounting options at all profile levels.

Clamping force
The baying connectors are screwed into place in the direction of baying to bring the enclosures safely into position.

Labour-saving
The new hinge allows doors to be fitted and removed incredibly easily without any tools, and separately locking and unlocking the hinge bolts is a thing of the past.

Ri4Power

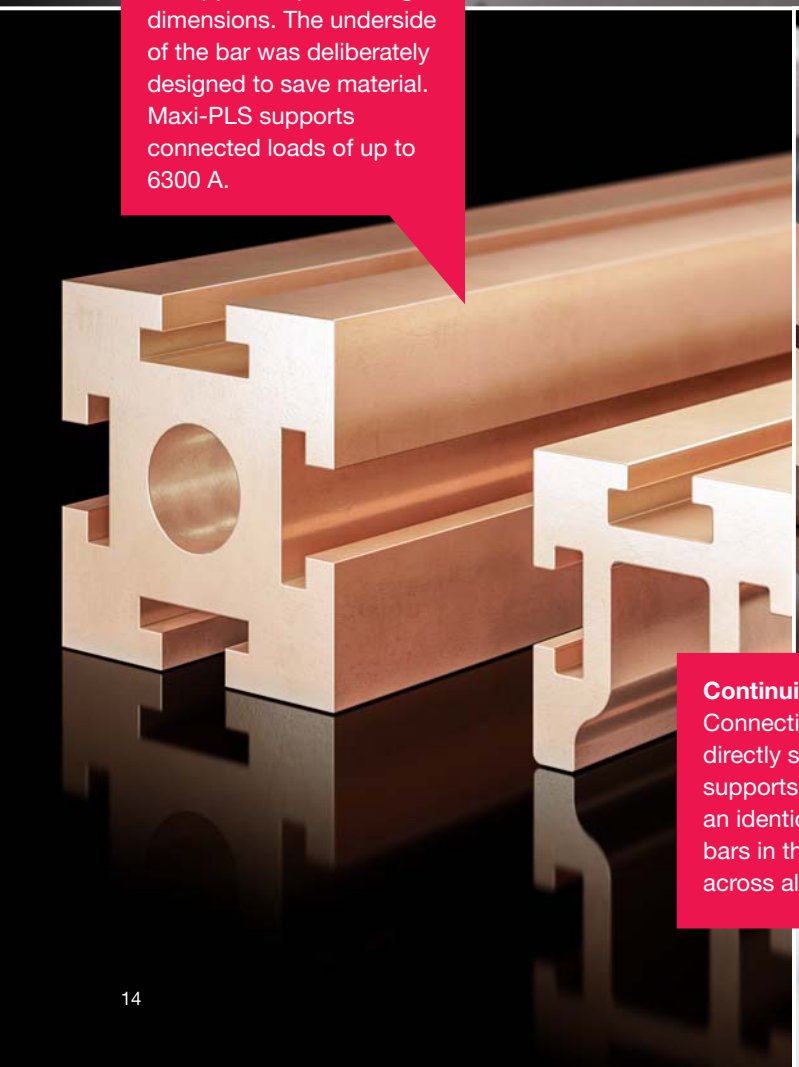
THE ACB SECTION

For protecting machinery and equipment
Air circuit-breakers protect machines, plant and people from damage and injury associated with short-circuits, earth faults and overloads.

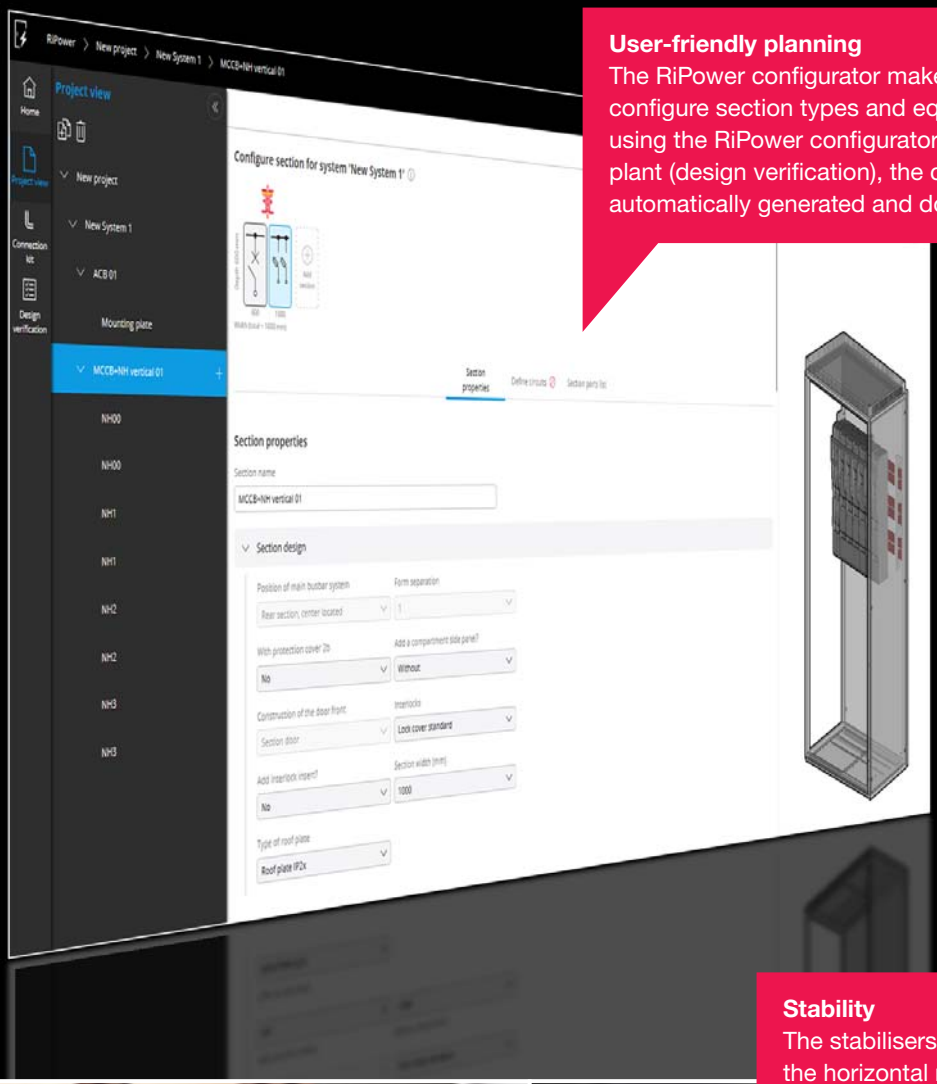
- The VX25 Ri4Power is suitable for use with open and compact circuit-breakers from all well-known manufacturers, including ABB, Eaton, General Electric, Mitsubishi, Schneider Electric, Siemens, LSIS and Terasaki.
- Modular continuity and a high manufacturing quality guarantee exceptionally time-saving assembly.
- Up to 6300 A, the busbar systems are dimensioned to your specific requirements with standard copper bars and individually configured.
- All drawings of connector kits and connection brackets for connecting air circuit-breakers may be generated and printed with the RiPower configurator so that all copper parts can be prepared for installation early in the process.

Maximum performance
The end position of the rails on the compartment side panel is always identical and is defined by the existing holes. The installation of both 3-pole and 4-pole systems is supported.

Economical
The Maxi-PLS busbar system minimises the use of copper despite its large dimensions. The underside of the bar was deliberately designed to save material. Maxi-PLS supports connected loads of up to 6300 A.



Continuity
Connecting PE or N conductors by directly screw-fastening the bar supports to the frame section ensures an identical, consistent arrangement of bars in the rear or front enclosure area across all section types.

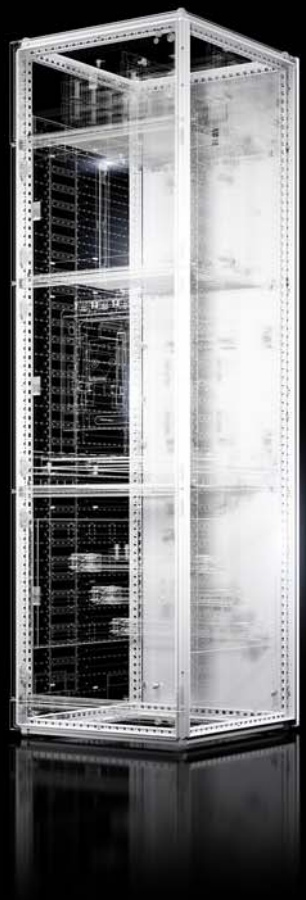


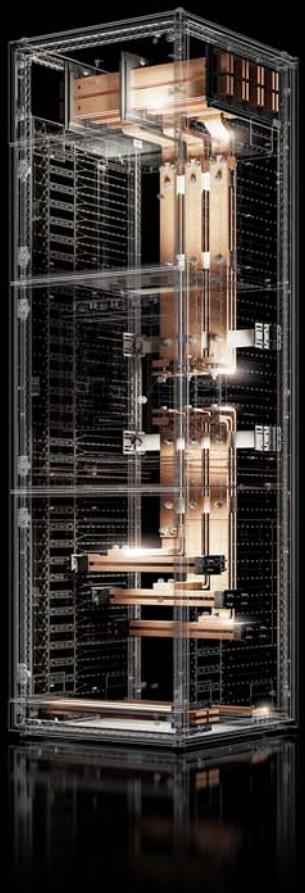
User-friendly planning
The RiPower configurator makes it much easier to configure section types and equipment. When using the RiPower configurator to project-plan the plant (design verification), the connector kits are automatically generated and documented.

Stability
The stabilisers mounted between the horizontal rails of the air circuit-breaker significantly improve short-circuit resistance.

Fast connection
The connection brackets, which are planned using Rittal software for a precise fit, enable circuit-breakers to be connected to the main busbar system.

Fast installation
The mounting bracket for the air circuit-breaker support rail is attached directly to the enclosure frame section. A fast, simple and stable solution which is very easy to assemble.





Basic framework

- Modular enclosure, 2000 mm high, from the VX25 baying enclosure system
- Base/plinth, 100 or 200 mm high, from the VX base/plinth system
- Base/plinth trim panel, side
- Side panel(s)
- Baying with bracket, block or connector
- Partial doors and front trim panels for modular front design
- Door lock(s) from the fastener system
- Roof plate depending on the protection category and function
- Cable entries

Compartment

- Compartment side panel
- Compartment dividers
- Partial mounting plates and accessories (depending on the Form separation type)
- Air circuit-breaker mounting bracket and support rail

Busbar system

- Flat copper busbars (Flat-PLS) for main busbar system and N/PE conductors
- Busbar supports for busbar system in roof or rear area, for busbar entry or baying
- End cover Flat-PLS
- Longitudinal connector for Flat-PLS
- Connection system for Flat-PLS
- Connection components for air circuit-breakers on bar systems or infeeds
- Infeed designed as compact infeed for Maxi-PLS
- Connection system for Maxi-PLS for cable connection on the infeed
- Accessories for busbar system, such as stabiliser, angle bracket, screws
- Busbar support, N conductor
- PE/PEN angle bracket
- Perforated cover plate with mounting bracket

Ri4Power

Ri4Power

THE OUTGOING SECTION

To combine switching and control functions

In the outgoing section, many different components may be connected under one roof, such as power distributors with control units. To achieve this, individual compartments, shielded from one another, are created within the section.

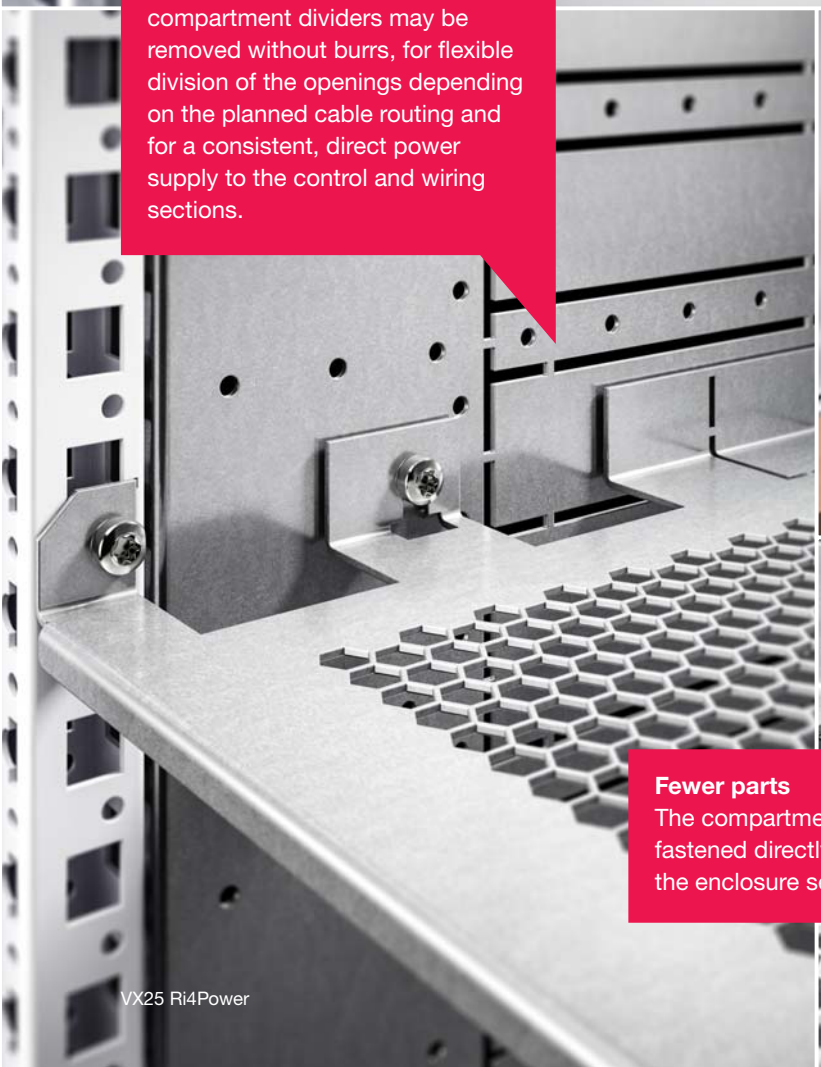
- Each compartment is configured to suit your requirements with VX25 Ri4Power system components and then individually populated e.g. with switchgear, power supply outgoing feeders or control units.
- The busbar distribution system may be positioned adjacent to or behind the compartments and is easily and safely connected to the main busbar systems using system components.
- The fully modular busbar system can be used across all sections and compartments and is exceptionally straightforward to plan and install. It also offers extensive individualisation options with uncompromising consistency.

Utilisation of the section
The modular partial door concept is quickly achieved. Compartment side panels matching the enclosure height simultaneously shield multiple compartments. The 25 mm pitch pattern of the frame section supports variable compartment heights to maximise use of the section.

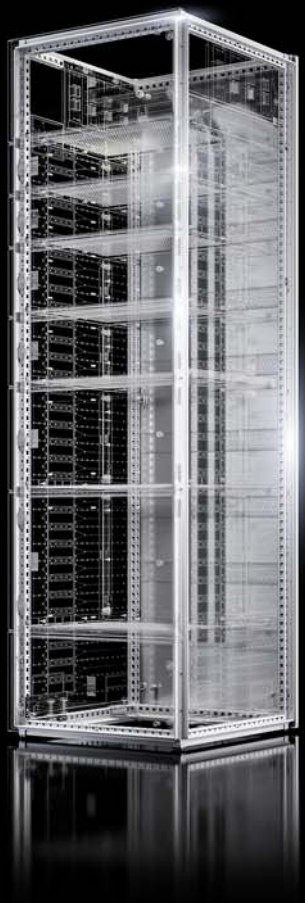
Multi-functional
The compartment divider will fit any section type. Benefits: Fewer components, plus a high level of efficiency. The air-permeable grille supports thermal convection across the entire section, ensuring improved pressure equalisation throughout the compartment.

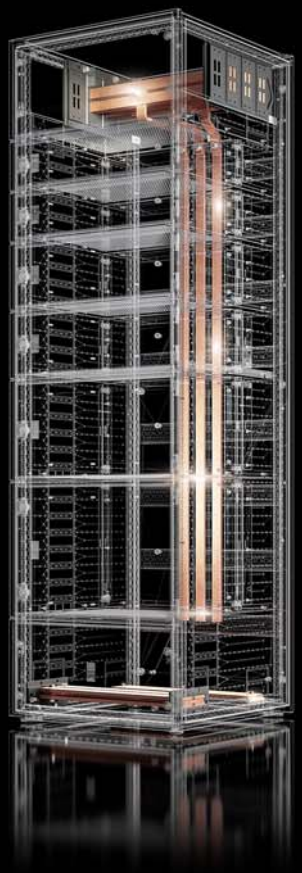
Flexibility
The pre-punched knock-outs in the compartment dividers may be removed without burrs, for flexible division of the openings depending on the planned cable routing and for a consistent, direct power supply to the control and wiring sections.

Continuity
Connecting PE or N conductors by directly screw-fastening the bar supports to the frame section ensures an identical, consistent arrangement of bars in the rear or front enclosure area across all section types.



Fewer parts
The compartment divider is screw-fastened directly to the side wall and the enclosure section to save time.





Basic framework

- Modular enclosure, 2000 mm high, from the VX25 baying enclosure system
- Base/plinth, 100 or 200 mm high, from the VX base/plinth system
- Base/plinth trim panel, side
- Side panel(s)
- Baying with bracket, block or connector
- Partial doors and front trim panels for modular front design
- Door lock(s) from the fastener system
- Roof plate depending on the protection category and function

Compartment

- Compartment side panel
- Compartment dividers
- Partial mounting plates and accessories (depending on the Form separation type)
- Plastic gland plates

Busbar system

- Flat copper busbars (Flat-PLS) for main and distributor busbar system and N/PE conductors
- Busbar supports for busbar system in the roof section, for busbar entry or baying
- End cover Flat-PLS
- Longitudinal connector for Flat-PLS
- Connection system for Flat-PLS
- Busbar supports for distribution busbar system
- Connection components for the T-connection
- Accessories for busbar system, such as stabiliser, mounting bracket, screws
- Busbar support, N conductor
- PE/PEN angle bracket
- Perforated cover plate with mounting bracket

Ri4Power

Ri4Power

FORM 2B

To ensure optimum contact hazard protection

The Form 2b designed as internal separation shields the busbar compartment from the functional space and the connection space.

- All active parts are safe from finger-contact in line with IP 2X.
- When working in the functional space or connection space, the modular, width-flexible cover provides effective protection from contact with the busbars.
- Shielding to Form 2b also protects the equipment, by preventing the unwanted ingress of foreign bodies into the busbar compartment.
- Convenient plug-in and clip-in technology enables simple assembly of all components with no drilling required.

Fast installation
Component installation and finger-proof shielding is achieved by simply screw-fastening; no drilling required.

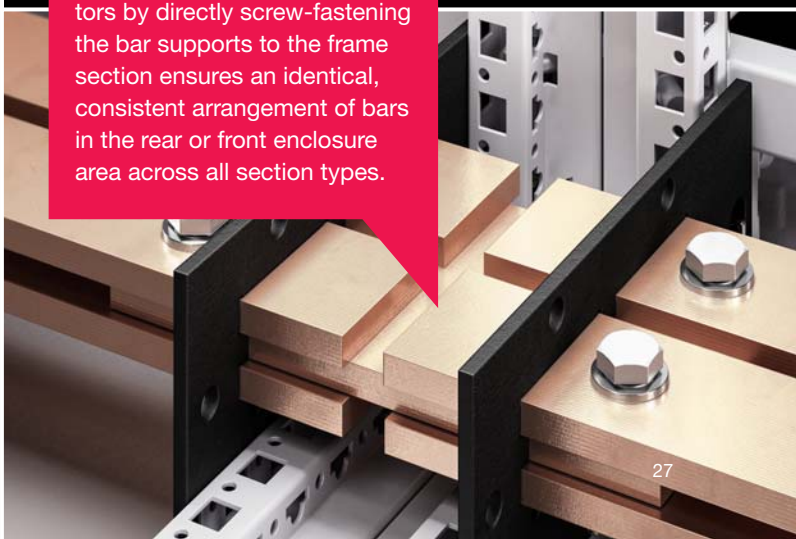
Modular benefits
The width of the contact hazard protection cover is easily adjusted thanks to its 50 mm subdivision and is always flush with the compartment side panel, in line with the Rittal system dimensions.

Components
Form 2b perfectly complements the purpose-designed 185 mm components. Example: NH slimline switch-disconnectors with fuses for operator-independent disconnection and switching.

Immediate machining
The standard 50 x 10 mm copper bars are already pre-punched and cut to the required length to match the enclosure widths. They may be fitted directly without machining.

Fast attachment
The busbar support is secured to the enclosure section using just two screws. A pre-punched knock-out is provided so that a matching cut-out can be made quickly in the compartment side panel.

Continuity
Connecting PE or N conductors by directly screw-fastening the bar supports to the frame section ensures an identical, consistent arrangement of bars in the rear or front enclosure area across all section types.



Basic framework

- Modular enclosure, 2000 mm high, from the VX25 baying enclosure system
- Base/plinth, 100 or 200 mm high, from the VX base/plinth system
- Base/plinth trim panel, side
- Side panel(s)
- Baying with bracket, block or connector
- Partial doors and front trim panels for modular front design
- Door lock(s) from the fastener system
- Roof plate depending on the protection category and function

Compartment

- Compartment side panel
- Contact hazard protection cover for Form 2b
- Blanking cover for contact hazard protection cover

Busbar system

- Flat copper busbars (Flat-PLS) for main busbar system and N/PE conductors
- Busbar supports for busbar system in the rear section, for busbar entry or baying
- End cover Flat-PLS
- Longitudinal connector for Flat-PLS
- Accessories for busbar system, such as stabiliser, mounting bracket, screws
- Busbar support, N conductor
- PE/PEN angle bracket
- Perforated cover plate with mounting bracket

Ri4Power

Ri4Power

THE COUPLING SECTION

For maintaining fail-safe operation

The coupling section is a combination of an air circuit-breaker section with a busbar riser positioned optionally on the left or right.

- This allows individual busbar sections to be de-energised without switching off the entire system. This avoids total system failures during malfunctions or maintenance work, and maintains system availability, especially for systems with multiple power supplies.
- With the VX25 Ri4Power, comprehensive, stable partitioning allows busbar sections to be safely disconnected. The high safety standards of the coupling section permit less stringent requirements for overall short-circuit resistance.
- The parts, accessories and required work steps are largely the same as when assembling the circuit-breaker section. The system synergies mean that assembly time is significantly reduced, while also offering major cost-saving potential.

Independence
The main busbars may optionally be routed in the roof section or central rear section.

Modular benefits
The coupling power infeed towards the roof section is always based on the same side riser. It is always identical, regardless of whether it is integrated into a coupling section or accommodated in another enclosure as a separate section.

Continuity
Connecting PE or N conductors by directly screw-fastening the bar supports to the frame section ensures an identical, consistent arrangement of bars in the rear or front enclosure area across all section types.

Basic framework

- Modular enclosure 2000 mm high, from the VX25 baying enclosure system (for coupling section and additional riser section)
- Base/plinth, 100 or 200 mm high, from the VX base/plinth system
- Base/plinth trim panel, side
- Side panel(s)
- Baying with bracket, block or connector
- Partial doors and front trim panels for modular front design
- Door lock(s) from the fastener system
- Roof plate depending on the protection category and function
- Cable entries

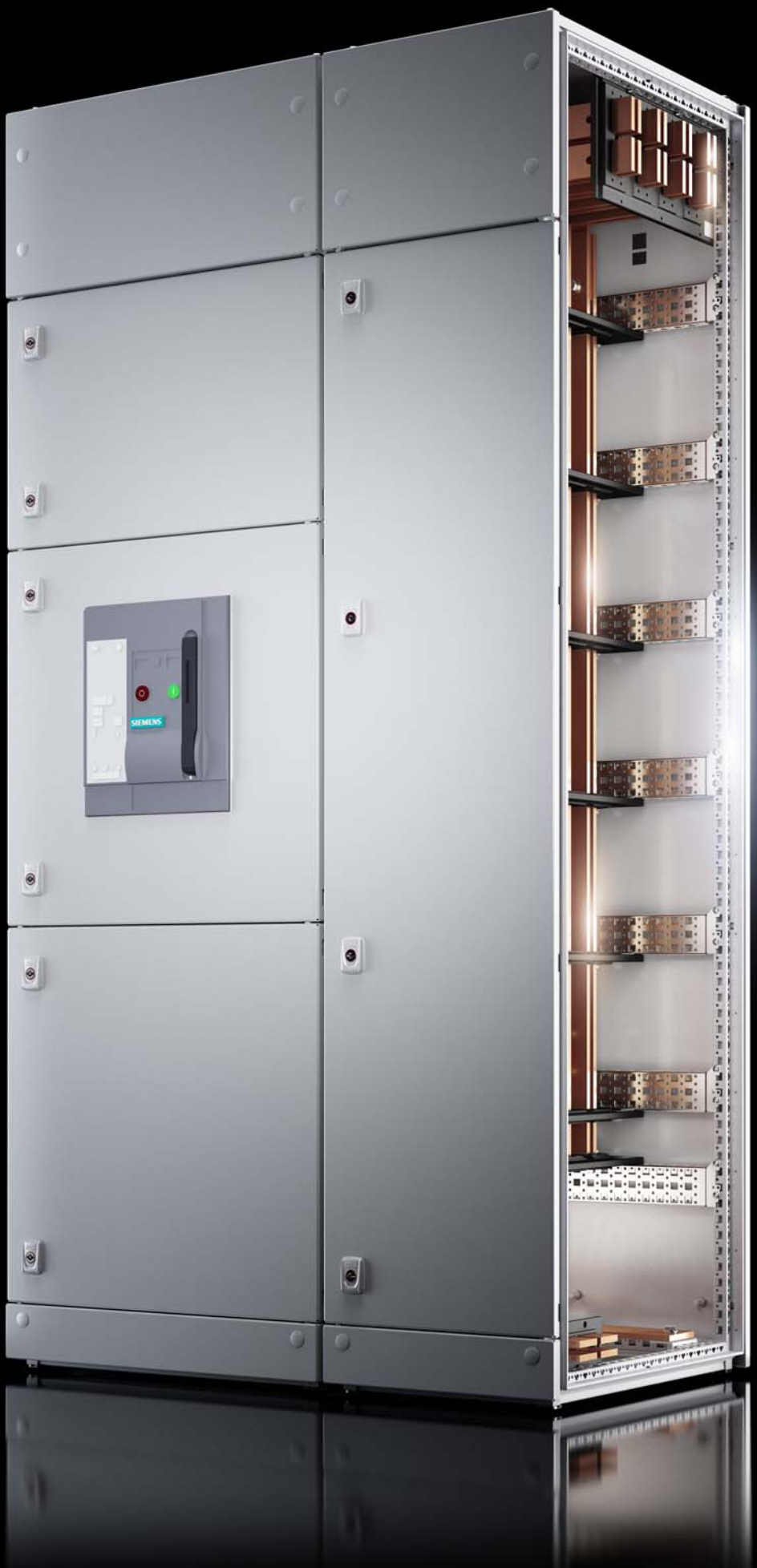
Compartment

- Compartment side panel
- Compartment dividers
- Partial mounting plates and accessories (depending on the Form separation type)
- Air circuit-breaker mounting bracket and support rail

Busbar system

- Flat copper busbars (Flat-PLS) for main and riser busbar system and N/PE conductors
- Busbar supports for busbar system in roof or rear area, or for busbar extension
- Punched section without mounting flange for busbar supports in the riser section
- End cover Flat-PLS
- Longitudinal connector for Flat-PLS
- Connection system for Flat-PLS
- Connection components for air circuit-breakers on the busbar system or for T-connection
- Accessories for busbar system, such as stabiliser, mounting bracket, screws
- Busbar support, N conductor
- PE/PEN angle bracket
- Perforated cover plate with mounting bracket

Ri4Power



Ri4Power

THE FUSE-SWITCH DISCONNECTOR SECTION

For a reliable power supply

Distributing electrical energy as compactly as possible with maximum variability using fused switchgear – that is the task of the fuse-switch disconnector section.

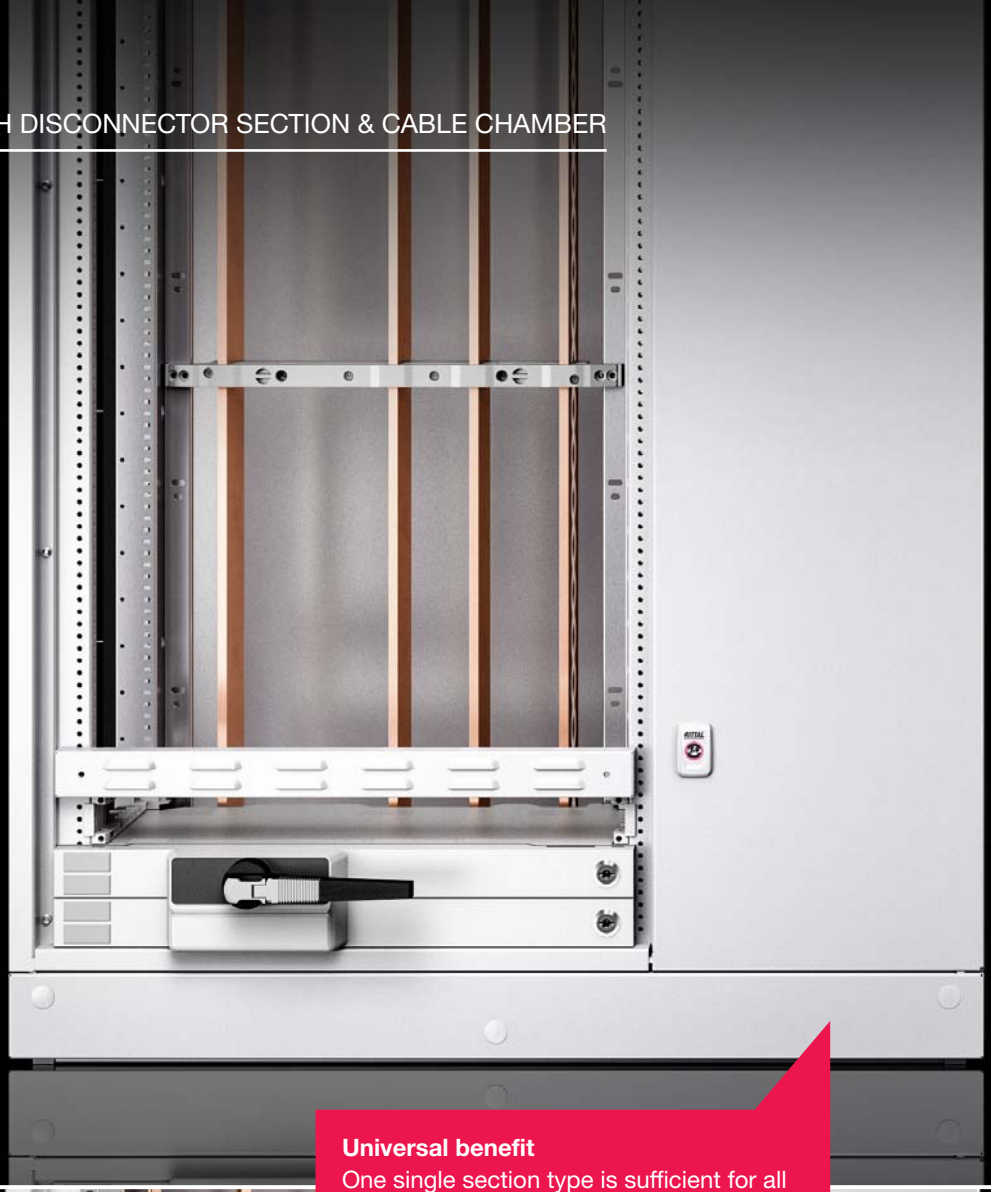
- The VX25 Ri4Power modular switchgear system is fully prepared for fast, safe installation of fuse-switch disconnectors, sizes 00 to 3, from Jean Müller or ABB/Siemens.
- The distribution busbars are economically dimensioned to meet the individual requirements. The main and distribution busbar systems can be configured for a short-circuit rating of up to 100 kA for 1 sec.
- Form 1 to Form 4b internal sub-division in the fuse-switch disconnector section, depending on customer requirements, is achieved via the optional selection of components.

THE CABLE CHAMBER

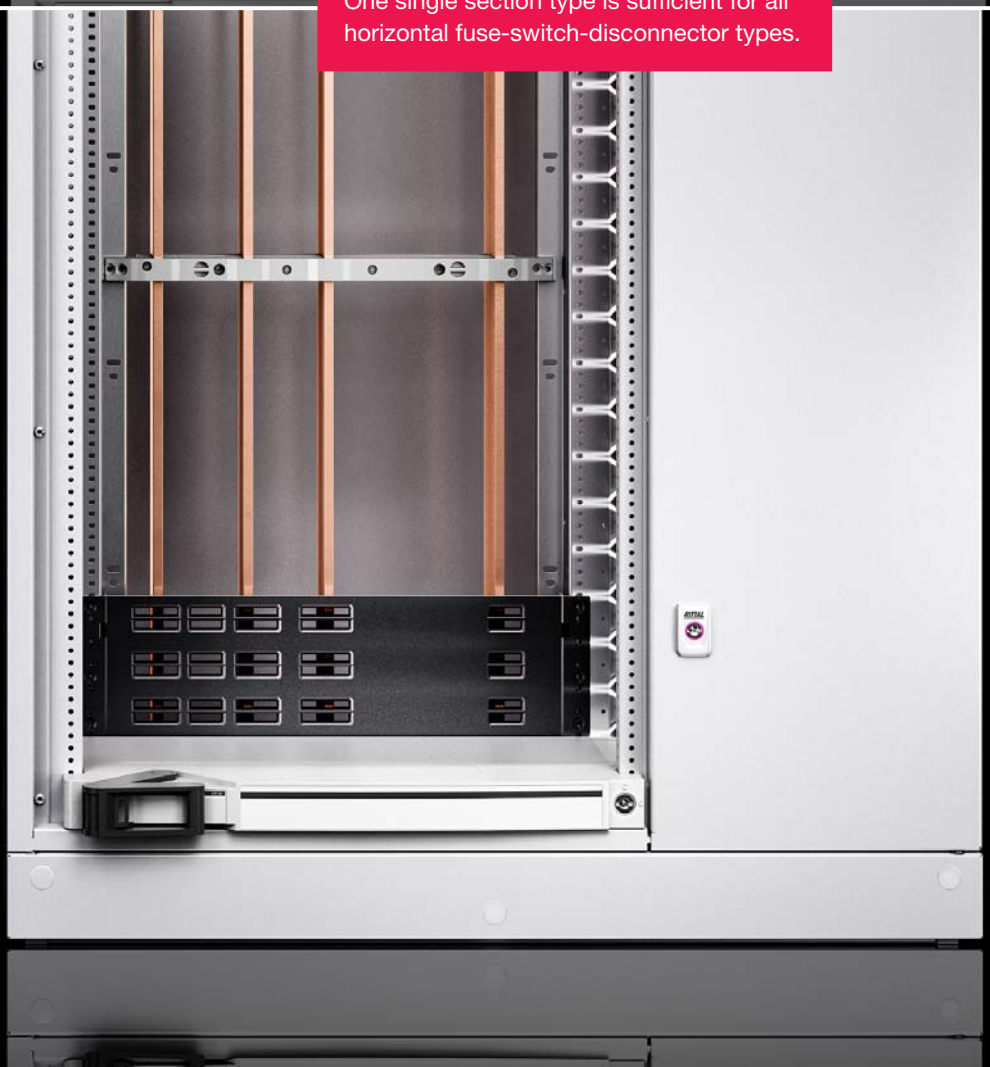
For distributing cables and lines

The cable chamber is used for routing cables and lines to the compartments.

- The extensive range of VX25 Ri4Power system accessories ensures exceptionally time-saving and flexible configuration.
- Depending on the main busbar system chosen, cable entry may be either from below, above, or below and above.
- Choose from a range of cable entry glands for the roof plate.



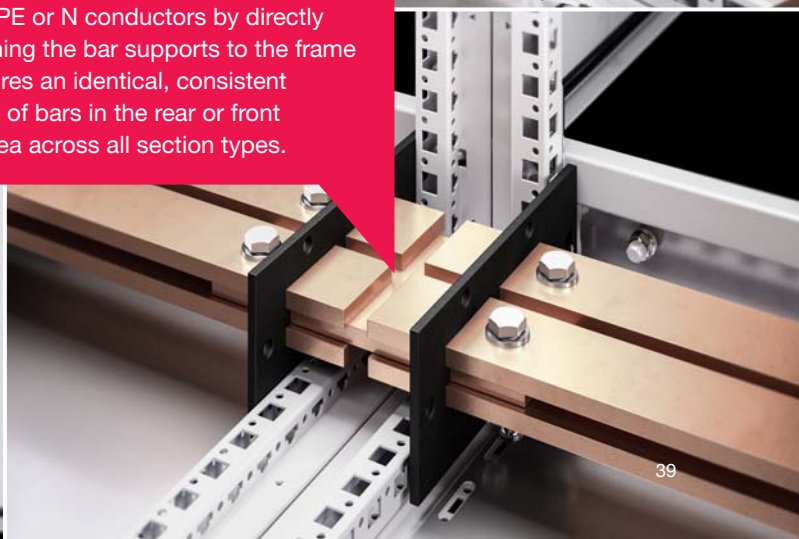
Universal benefit
One single section type is sufficient for all horizontal fuse-switch-disconnector types.



Planning confidence
The positioning of the vertical section is identical for all fuse-switch-disconnector types. This means the system is fully planned and implemented independently of the fuse-switch-disconnector manufacturer that is subsequently chosen.

Combination benefits
The fuse-switch disconnector section is available with integral cable chamber, fully pre-configured, including partitioning.
No additional accessories are required.
Benefits: Space-efficient and time-saving.

Continuity
Connecting PE or N conductors by directly screw-fastening the bar supports to the frame section ensures an identical, consistent arrangement of bars in the rear or front enclosure area across all section types.



Basic framework

- Fuse-switch-disconnector enclosure, 2000 mm high, from the VX25 baying enclosure system
- Base/plinth, 100 or 200 mm high, from the VX base/plinth system
- Base/plinth trim panel, side
- Side panel(s)
- Baying with bracket, block or connector
- Door lock(s) from the fastener system
- Cable entries

Compartment

- Supplied already populated

Busbar system

- Flat copper busbars (Flat-PLS) for main and distributor busbar system and N/PE conductors
- Busbar supports for busbar system in roof or rear section
- Busbar support, end bracket and cover for fuse-switch disconnector section
- End cover Flat-PLS
- Longitudinal connector for Flat-PLS
- Connection components for T-connector
- Busbar support, N conductor
- PE/PEN angle bracket
- Perforated cover plate with mounting bracket

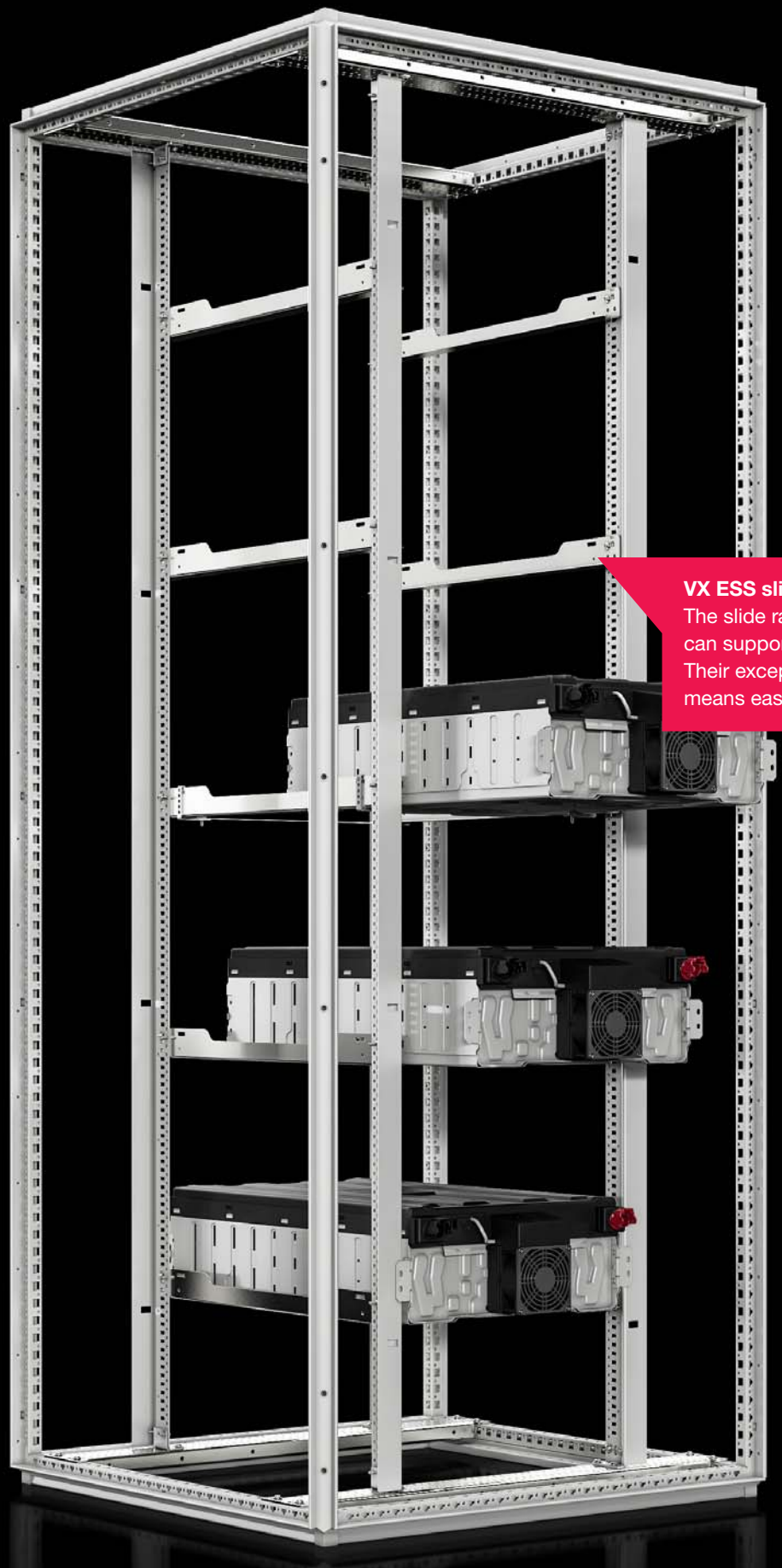
Ri4Power

Ri4Power

VX ESS –
ENERGY STORAGE SOLUTIONS

The VX ESS energy storage enclosure system provides a standardised, modular solution for energy storage systems.

- The flexible energy storage enclosure is based on the VX bayed enclosure system and has been purpose-designed to accommodate a wide range of energy storage modules.
  This enclosure is ideal for batteries and other energy storage modules, as well as hydrogen and supercapacitor applications. Its easy bayability and ready integration into existing systems set the VX ESS apart.
- The enclosure layout may be flexibly adapted, e.g. with individual connection options, to suit different manufacturers and storage module options.
- Scaling your rack, power distribution, cooling and system accessories is extremely user-friendly, so you can ensure system availability.
- The robust enclosure frame is designed for a guaranteed total load capacity of 1,500 kg. The interior installation system, comprising vertical mounting angles and cross-members in the base and roof section, supports a maximum load of 1,000 kg.
- Perforated door and rear panel for efficient passive ventilation.
- The flexible interior installation allows optimum organisation and positioning of a range of different storage module shapes and dimensions.
- The modular interior installation of the energy store is compatible with CS Toptec outdoor enclosures.



VX ESS slide rail
The slide rails for storage modules can support loads of 120 kg. Their exceptional assembly-friendliness means easier scaling in the rack.

VX ESS heavy-duty shelf
The heavy-duty shelf has a load capacity of 200 kg and can be secured directly to the VX enclosure frame.

Rittal – The System.

Faster – better – everywhere.

ENCLOSURES | POWER DISTRIBUTION | CLIMATE CONTROL

FRIEDHELM LOH GROUP

Ri4Power

Ordering information

Configuration and machining

Baying enclosure system VX25

System accessories Page 52 **Modular front design** Page 55 **Compartment configuration** Page 80

Material and surface finish:
- Enclosure frame: Sheet steel, 1.5 mm, dipcoat-primed
- Rear panel: Sheet steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Gland plates: Sheet steel, 1.5 mm, zinc-plated

Colour:
- RAL 7035

Basis of test:
- IEC 61 439-1/-2
- IEC 61 641

Protection category IP to IEC 60 529:
- Up to IP 54, depending on the panels

Supply includes:
- Enclosure frame
- Rear panel
- Gland plates

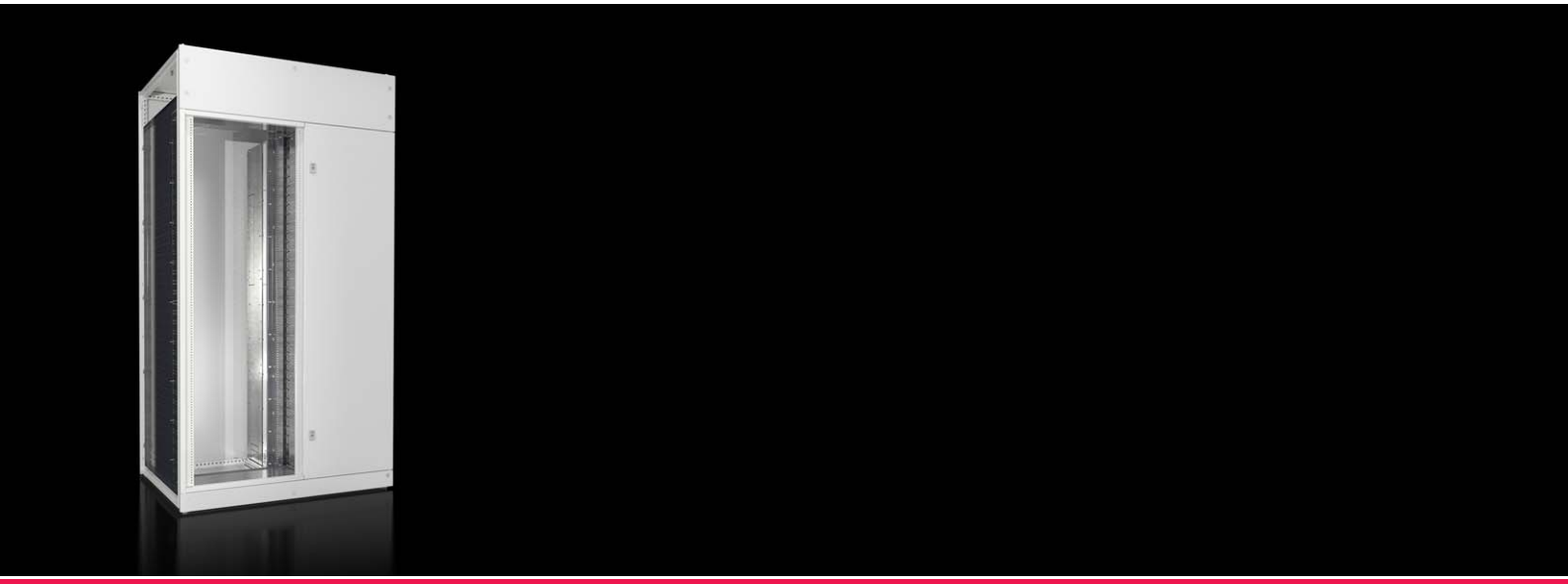
Modular enclosure, height 2000 mm

Width mm	Packs of	400	600	800	400	600	800	1000	1200	Page
Height mm		2000	2000	2000	2000	2000	2000	2000	2000	
Depth mm		600	600	600	800	800	800	800	800	
Model No.	1 pc(s).	**9680.406**	**9680.606**	**9680.806**	**9680.408**	**9680.608**	**9680.808**	**9680.008**	**9680.208**	
Accessories										
Base/plinth corner pieces with base/plinth trim panels, front and rear, 100 mm	2 pc(s).	8660.001	8660.002	8660.003	8660.001	8660.002	8660.003	8660.005	8660.007	52
Base/plinth trim panels, side, 100 mm	2 pc(s).	8660.033	8660.033	8660.033	8660.034	8660.034	8660.034	8660.034	8660.034	53
Base/plinth corner pieces with base/plinth trim panels, front and rear, 200 mm	2 pc(s).	8660.021	8660.022	8660.023	8660.021	8660.022	8660.023	8660.024	8660.025	52
Base/plinth trim panels, side, 200 mm	2 pc(s).	8660.043	8660.043	8660.043	8660.044	8660.044	8660.044	8660.044	8660.044	53
Side panels, screw-fastened, sheet steel	2 pc(s).	8106.245	8106.245	8106.245	8108.245	8108.245	8108.245	8108.245	8108.245	53
Baying bracket, internal	6 pc(s).	8617.500	8617.500	8617.500	8617.500	8617.500	8617.500	8617.500	8617.500	54
Baying block, internal	6 pc(s).	8617.501	8617.501	8617.501	8617.501	8617.501	8617.501	8617.501	8617.501	54
Baying connector, external	6 pc(s).	8617.502	8617.502	8617.502	8617.502	8617.502	8617.502	8617.502	8617.502	54
Partial door		see page	see page	see page	see page	see page	see page	see page	see page	55
Front trim panel, top, solid		see page	see page	see page	see page	see page	see page	9682.320	see page	57
Front trim panel, bottom, vented	1 pc(s).	9682.354	9682.356	9682.358	9682.354	9682.356	9682.358	9682.350	9682.352	58
Front trim panel, bottom, solid		see page	see page	see page	see page	see page	see page	see page	see page	57
Roof plate IP 55, solid	1 pc(s).	9681.646	9681.666	9681.686	9681.648	9681.668	9681.688	–	–	61
Roof plate IP 2X with ventilation hole	1 pc(s).	9681.846	9681.866	9681.886	9681.848	9681.868	9681.888	see page	9681.828	61
Roof plate for cable entry glands	1 pc(s).	9681.546	9681.566	9681.586	9681.548	9681.568	9681.588	–	–	61

Modular enclosure, height 2200 mm

Width mm	Packs of	400	600	800	400	600	800	1000	1200	Page
Height mm		2200	2200	2200	2200	2200	2200	2200	2200	
Depth mm		600	600	600	800	800	800	800	800	
Model No.	1 pc(s).	**9680.426**	**9680.626**	**9680.826**	**9680.428**	**9680.628**	**9680.828**	**9680.028**	**9680.228**	
Accessories										
Base/plinth corner pieces with base/plinth trim panels, front and rear, 100 mm	2 pc(s).	8660.001	8660.002	8660.003	8660.001	8660.002	8660.003	8660.005	8660.007	52
Base/plinth trim panels, side, 100 mm	2 pc(s).	8660.033	8660.033	8660.033	8660.034	8660.034	8660.034	8660.034	8660.034	53
Base/plinth corner pieces with base/plinth trim panels, front and rear, 200 mm	2 pc(s).	8660.021	8660.022	8660.023	8660.021	8660.022	8660.023	8660.024	8660.025	52
Base/plinth trim panels, side, 200 mm	2 pc(s).	8660.043	8660.043	8660.043	8660.044	8660.044	8660.044	8660.044	8660.044	53
Side panels, screw-fastened, sheet steel	2 pc(s).	8126.245	8126.245	8126.245	8128.245	8128.245	8128.245	8128.245	8128.245	53
Baying bracket, internal	6 pc(s).	8617.500	8617.500	8617.500	8617.500	8617.500	8617.500	8617.500	8617.500	54
Baying block, internal	6 pc(s).	8617.501	8617.501	8617.501	8617.501	8617.501	8617.501	8617.501	8617.501	54
Baying connector, external	6 pc(s).	8617.502	8617.502	8617.502	8617.502	8617.502	8617.502	8617.502	8617.502	54
Partial door		see page	see page	see page	see page	see page	see page	see page	see page	55
Front trim panel, top, solid		see page	see page	see page	see page	see page	see page	see page	see page	57
Front trim panel, bottom, vented	1 pc(s).	9682.354	9682.356	9682.358	9682.354	9682.356	9682.358	9682.350	9682.352	58
Front trim panel, bottom, solid		see page	see page	see page	see page	see page	see page	see page	see page	57
Roof plate IP 55, solid	1 pc(s).	9681.646	9681.666	9681.686	9681.648	9681.668	9681.688	–	–	61
Roof plate IP 2X with ventilation hole	1 pc(s).	9681.846	9681.866	9681.886	9681.848	9681.868	9681.888	9681.808	9681.828	61
Roof plate for cable entry glands	1 pc(s).	9681.546	9681.566	9681.586	9681.548	9681.568	9681.588	–	–	61

Baying enclosure system VX25



System accessories Page 52 **Compartment configuration** Page 80 **Fuse-switch disconnector section** Page 85

Material and surface finish:
- Enclosure frame: Sheet steel, 1.5 mm, dipcoat-primed
- Roof: Sheet steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Door: Sheet steel, 2 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Rear panel: Sheet steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Gland plates: Sheet steel, 1.5 mm, zinc-plated
- Front panel: Sheet steel, 1.5 mm, dipcoat-primed, powder-coated on the outside, textured paint
- Compartment side panel: Sheet steel, 1.5 mm, zinc-plated

Colour:
- RAL 7035

Basis of test:
- IEC 61 439-1/-2
- IEC 61 641

Protection category IP to IEC 60 529:
- Up to IP 3X, depending on the panels

Supply includes:
- Enclosure frame
- Door
- Roof plate
- Rear panel
- Gland plates
- Front trim panels
- Lock: 3 mm double-bit
- Compartment side panels
- Locating frame for disconnectors with fuses (brands ABB SlimLine/Jean Müller SASIL)

Fuse-switch disconnector enclosure, height 2000 – 2200 mm

Width mm	Packs of	1000	1200	1000	1200	Page
Height mm		2000	2000	2200	2200	
Depth mm		600	800	600	800	
Model No.	1 pc(s).	**9680.005**	**9680.207**	**9680.025**	**9680.227**	
Accessories						
Base/plinth corner pieces with base/plinth trim panels, front and rear, 100 mm	2 pc(s).	8660.005	8660.007	8660.005	8660.007	52
Base/plinth trim panels, side, 100 mm	2 pc(s).	8660.033	8660.034	8660.033	8660.034	53
Base/plinth corner pieces with base/plinth trim panels, front and rear, 200 mm	2 pc(s).	8660.024	8660.025	8660.024	8660.025	52
Base/plinth trim panels, side, 200 mm	2 pc(s).	8660.043	8660.044	8660.043	8660.044	53
Side panels, screw-fastened, sheet steel	2 pc(s).	8106.245	8108.245	8126.245	8128.245	53
Baying bracket, internal	6 pc(s).	8617.500	8617.500	8617.500	8617.500	54
Baying block, internal	6 pc(s).	8617.501	8617.501	8617.501	8617.501	54
Baying connector, external	6 pc(s).	8617.502	8617.502	8617.502	8617.502	54
Roof plate IP 2X with ventilation hole	1 pc(s).	9681.806	9681.828	9681.806	9681.828	61

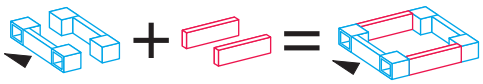
Modular base/plinth diversity

The new, innovative base/plinth system VX offers an unprecedented diversity of functions and applications. It combines all existing base/plinth functions in a single solution, as well as opening up many new applications. As if that ins't enough, it is also compatible with existing enclosure solutions VX, VX IT, VX SE, TX, PC, CX console systems and IW.
In short, it is a base/plinth system.

The base/plinth system VX comprises the following components:
– Base/plinth corner pieces with base/plinth trim panels, front and rear
– Base/plinth trim panels, sides

The base/plinth system is designed for maximum stability and produces a flush surface in bayed suites. The vented trim panels and trim panels with brush strips available as accessories can also be attached at the sides or exchanged for front/rear trim panels.

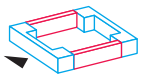
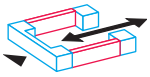
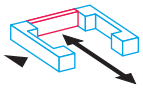
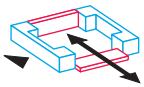
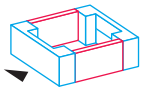
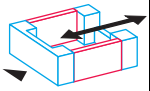
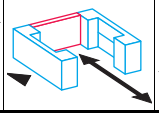
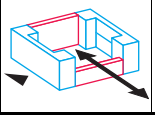
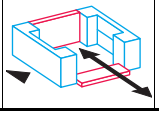
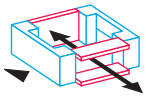
Depending on the application, for example, users can dispense with the trim panels between bayed enclosure suites, or a 100 mm or 200 mm high trim panel may be used to stabilise the base/plinth corner pieces.
In combination with its extensive range of accessories, and thanks to its compatibility with enclosure accessories, the base/plinth system VX offers almost infinite possibilities in terms of siting, transportation, cable routing, cable attachment and base/plinth configuration.



One Model No. for the **base/plinth corner pieces with base/plinth trim panels,** front and rear

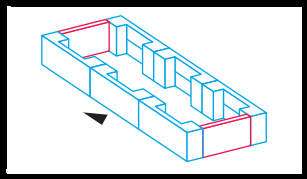
One Model No. for the **base/plinth trim panels,** side

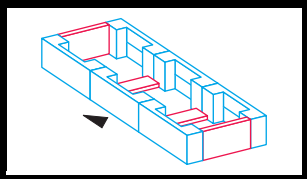
One complete **VX base/plinth**

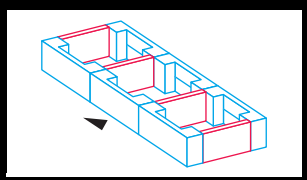
Base/plinth height	Basic form	Cable entry options				
					Stabilisation of bayed base/plinths	
100 mm						
200 mm						

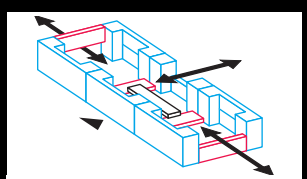
Configuration examples

Order includes	Functional benefits
3 packs of Base/plinth corner pieces with base/plinth trim panels 1 pack of Base/plinth trim panels, sides, 200 mm high	Continuous cable chamber
3 packs of Base/plinth corner pieces with base/plinth trim panels 1 pack of Base/plinth trim panels, sides, 200 mm high 1 pack of Base/plinth trim panels, sides, 100 mm high or 1 pack of Base/plinth trim panels, sides, 200 mm high VX base/plinth baying bracket (8660.140, packs of 20) 4 pc(s). are required for this solution	Additional stability during transportation with base/plinth trim panels rotated through 90°
3 packs of Base/plinth corner pieces with base/plinth trim panels 2 packs of Base/plinth trim panels, sides, 200 mm high	Shielding of the base/plinths from one another



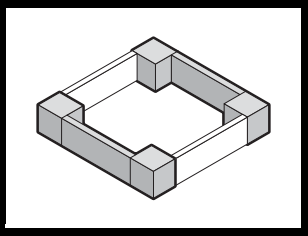






Other options:
– Cable entry at the side by fitting a 100 mm base/plinth trim panel with brush strip
– Cable entry from the rear by dismantling one or more trim panels from the base/plinth corner pieces and replacing them with trim panels with brush strips
– Cable routing in the base/plinth by using punched sections with mounting flanges on the base/plinth trim panels

Base/plinth



Base/plinth corner pieces with base/plinth trim panels, front and rear

Sheet steel
High-load capacity base/plinth corner pieces with moulded self-positioning to the enclosure, may be used with or without trim panels depending on the application. Large openings in the corner piece for optimum access to the screw-fastening point, may be concealed with a plastic corner cover.

Material:
– Base/plinth corner piece: Sheet steel
– Base/plinth trim panel front/rear: Sheet steel
– Corner cover: Plastic

Colour:
– RAL 9005

100 mm high supply includes:
– 4 base/plinth corner pieces, 100 mm high
– 4 corner covers
– 2 base/plinth trim panels, front/rear, 100 mm high
– Assembly parts

200 mm high supply includes:
– 4 base/plinth corner pieces, 200 mm high
– 4 corner covers
– 1 base/plinth trim panel, front/rear, 200 mm high
– 2 base/plinth trim panels, front/rear, 100 mm high
– Assembly parts

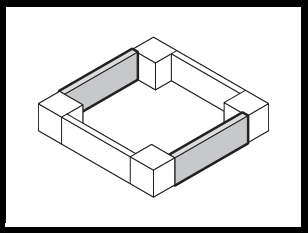
100 mm high

For enclosure width mm	Model No.
400	**8660.001**
600	**8660.002**
800	**8660.003**
1000	**8660.005**
1200	**8660.007**

200 mm high

For enclosure width mm	Model No.
400	**8660.021**
600	**8660.022**
800	**8660.023**
1000	**8660.024**
1200	**8660.025**

Also required:
– Base/plinth trim panels, sides, to finish off a unit, for additional stabilisation between base/plinths, or for interior configuration, see page 52



Base/plinth trim panel, sides

Sheet steel
To finish off a base/plinth unit at the sides and for additional stability or interior configuration of bayed base/plinths. One 200 mm high or two 100 mm high trim panels may optionally be fitted on 200 mm high base/plinths.

Material:
– Sheet steel

Colour:
– RAL 9005

Supply includes:
– 2 base/plinth trim panels
– Assembly parts

100 mm high

For enclosure depth mm	Model No.
600	**8660.033**
800	**8660.034**

200 mm high

For enclosure depth mm	Model No.
600	**8660.043**
800	**8660.044**

Side panel

Side panel, screw-fastened

Sheet steel

Benefits:
– Time-saving assembly thanks to clip-in side panel holders
– Automatic potential equalisation and higher EMC protection, thanks to enclosure panel holders with earthing inserts located on the inside
– Easy positioning in the height and depth with the location aid
– One-person assembly
– Earthing bolts with large, paint-free contact surface for optimum contact

Material:
– Sheet steel, 1.5 mm

Surface finish:
– Dipcoat-primed, powder-coated on the outside

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 55 (in conjunction with enclosures from the VX series)

Supply includes:
– Assembly parts

For enclosure height mm	For enclosure depth mm	Packs of	Model No.
2000	600	2 pc(s).	**8106.245**
2000	800	2 pc(s).	**8108.245**
2200	600	2 pc(s).	**8126.245**
2200	800	2 pc(s).	**8128.245**

Baying

Baying bracket, internal

Benefits:
- Fast, secure installation either from the front or from the side
- For all-round installation on the baying point
- May be flexibly positioned to avoid collisions with installed equipment

Material:
- Sheet steel

Surface finish:
- Zinc-plated

Supply includes:
- Baying bracket, internal
- Baying seal
- Assembly parts

Note:
- 1 pack is sufficient for one baying joint

Packs of	**Model No.**
6 pc(s).	**8617.500**

Possible alternative:
- Baying block, internal, see page 54
- Baying connector, external, see page 54

Baying block, internal

Benefits:
- Side mounting creates a flush surface to the extrusion, suitable for top mounting, thus avoiding collisions with installed equipment
- For all-round installation on the baying point

Material:
- Die-cast zinc

Supply includes:
- Baying block, internal
- Baying seal
- Assembly parts

Note:
- 1 pack is sufficient for one baying joint

Packs of	**Model No.**
6 pc(s).	**8617.501**

Possible alternative:
- Baying bracket, internal, see page 54
- Baying connector, external, see page 54

Baying connector, external

For mounting on the vertical enclosure sections from the outside.

Supply includes:
- Baying connector, external
- Baying seal
- Assembly parts

Note:
- 1 pack is sufficient for one baying joint

Material	Packs of	**Model No.**
Sheet steel, zinc-plated	6 pc(s).	**8617.502**
Stainless steel 1.4301 (AISI 304)	6 pc(s).	**8617.503**

Possible alternative:
- Baying bracket, internal, see page 54
- Baying block, internal, see page 54

Partial door

Suitable for VX enclosures instead of a door or rear panel. The partial doors may be combined with one another as required. A trim panel is required at the top and bottom in each case. Door may be optionally hinged on the right or left. Standard double-bit lock insert may be exchanged for lock inserts, type A.

Material:
– Sheet steel, 2 mm

Surface finish:
– Textured paint

Colour:
– RAL 7035

Supply includes:
– Partial door
– Cross member
– Hinges
– Lock components
– Assembly parts

Note:
– Opening angle of partial doors max. 130°

Also required:
– Front trim panel, bottom, vented, see page 58
– Front trim panel, top, solid, see page 57
– Front trim panel, bottom, solid, see page 57

Accessories:
– Perforated mounting strip, see page 56
– Trim panel, hinged at the top, see page 58
– Mini comfort handle AX, see page 59
– Lock insert, see page 60

For enclosure width 400 mm

Width mm	Height mm	Protection category IP to IEC 60 529	Viewing window	Number of locks	Material	Packs of	**Model No.**
400	200	IP 54	–	1	–	1 pc(s).	**9682.142**
400	300	IP5 4	–	1	–	1 pc(s).	**9682.143**
400	400	IP 54	–	2	–	1 pc(s).	**9682.144**
400	600	IP 54	–	2	–	1 pc(s).	**9682.146**
400	800	IP 54	–	2	–	1 pc(s).	**9682.148**
400	1000	IP 54	–	3	–	1 pc(s).	**9682.140**
400	1200	IP 54	–	3	–	1 pc(s).	**9682.152**
400	1400	IP 54	–	3	–	1 pc(s).	**9682.154**
400	1600	IP 54	–	4	–	1 pc(s).	**9682.156**
400	1800	IP 54	–	4	–	1 pc(s).	**9682.158**
400	2000	IP 54	–	4	–	1 pc(s).	**9682.150**

For enclosure width 600 mm

Width mm	Height mm	Protection category IP to IEC 60 529	Viewing window	Number of locks	Material	Packs of	**Model No.**
600	150	IP 54	–	1	–	1 pc(s).	**9682.161**
600	200	IP 54	–	1	–	1 pc(s).	**9682.162**
600	300	IP 54	–	1	–	1 pc(s).	**9682.163**
600	400	IP 54	–	2	–	1 pc(s).	**9682.164**
600	600	IP 54	–	2	–	1 pc(s).	**9682.166**
600	600	IP 54	■	2	Viewing window: Single-pane safety glass, 3 mm	1 pc(s).	**9682.167**
600	800	IP 54	–	2	–	1 pc(s).	**9682.168**
600	800	IP 54	■	2	Viewing window: Single-pane safety glass, 3 mm	1 pc(s).	**9682.169**
600	1000	IP 54	–	3	–	1 pc(s).	**9682.160**
600	1200	IP 54	–	3	–	1 pc(s).	**9682.172**
600	1400	IP 54	–	3	–	1 pc(s).	**9682.174**
600	1600	IP 54	–	4	–	1 pc(s).	**9682.176**
600	1800	IP 54	–	4	–	1 pc(s).	**9682.178**
600	2000	IP 54	–	4	–	1 pc(s).	**9682.170**

Modular front design

For enclosure width 800 mm

Width mm	Height mm	Protection category IP to IEC 60 529	Viewing window	Number of locks	Material	Packs of	**Model No.**
800	150	IP 54	–	1	–	1 pc(s).	**9682.181**
800	200	IP 54	–	1	–	1 pc(s).	**9682.182**
800	300	IP 54	–	1	–	1 pc(s).	**9682.183**
800	400	IP 54	–	2	–	1 pc(s).	**9682.184**
800	600	IP 54	–	2	–	1 pc(s).	**9682.186**
800	600	IP 54	■	2	Viewing window: Single-pane safety glass, 3 mm	1 pc(s).	**9682.187**
800	800	IP 54	–	2	–	1 pc(s).	**9682.188**
800	1000	IP 54	–	3	–	1 pc(s).	**9682.180**
800	1200	IP 54	–	3	–	1 pc(s).	**9682.192**
800	1400	IP 54	–	3	–	1 pc(s).	**9682.194**
800	1600	IP 54	–	4	–	1 pc(s).	**9682.196**
800	1800	IP 54	–	4	–	1 pc(s).	**9682.198**
800	2000	IP 54	–	4	–	1 pc(s).	**9682.190**

For enclosure width 1000 mm

Width mm	Height mm	Protection category IP to IEC 60 529	Viewing window	Number of locks	Material	Packs of	**Model No.**
1000	400	–	–	2	–	1 pc(s).	**9682.104**
1000	600	–	–	2	–	1 pc(s).	**9682.106**
1000	800	–	–	2	–	1 pc(s).	**9682.108**

For enclosure width 1200 mm

Width mm	Height mm	Protection category IP to IEC 60 529	Viewing window	Number of locks	Material	Packs of	**Model No.**
1200	400	–	–	2	–	1 pc(s).	**9682.124**
1200	600	–	–	2	–	1 pc(s).	**9682.126**
1200	800	–	–	2	–	1 pc(s).	**9682.128**

Perforated mounting strip

for partial door

For retrospective external mounting on partial doors. The perforated mounting strips have a 25 mm pitch pattern of holes and may be used for mounting individual accessories such as cable ducts, hose holders etc. on the rear of the door. Hole diameter of perforated mounting strip: 4.5 mm.

Material:
– Sheet steel, 1 mm

Surface finish:
– Zinc-plated

Supply includes:
– Assembly parts

For enclosure width mm	Length mm	For partial door height mm	Packs of	**Model No.**
400	198	200 - 800	10 pc(s).	**9681.204**
600	398	150 - 800	10 pc(s).	**9681.206**
800	598	150 - 800	10 pc(s).	**9681.208**

Assembly instruction:

– For enclosure width 1000 mm:
1 x 9681.204 and 1 x 9681.206
– For enclosure width 1200 mm:
2 x 9681.206

Front trim panel, top, solid

To finish off the modular front design at the top when using partial doors. The front trim panels may be removed from the outside by unscrewing. The cross member required for mounting is included with the supply of the mounted partial doors.

Design:
– Solid

Material:
– Sheet steel, 1.5 mm

Surface finish:
– Textured paint

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 54

Supply includes:
– Assembly parts

Height mm	For enclosure width mm	Packs of	Model No.
100	400	1 pc(s).	**9682.314**
300	400	1 pc(s).	**9682.324**
100	600	1 pc(s).	**9682.316**
300	600	1 pc(s).	**9682.326**
100	800	1 pc(s).	**9682.318**
300	800	1 pc(s).	**9682.328**
100	1000	1 pc(s).	**9682.310**
300	1000	1 pc(s).	**9682.320**
100	1200	1 pc(s).	**9682.312**
300	1200	1 pc(s).	**9682.322**

Front trim panel, bottom, solid

To finish off the modular front design at the bottom when using partial doors. The front trim panels may be removed from the outside by unscrewing.

Design:
– Solid

Material:
– Sheet steel, 1.5 mm

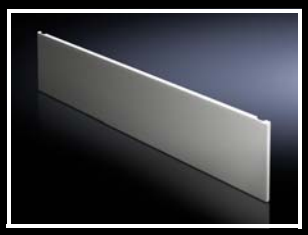
Surface finish:
– Textured paint

Colour:
– RAL 7035

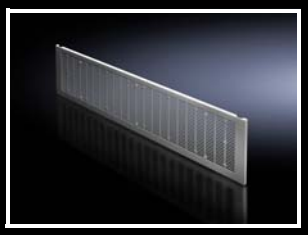
Protection category IP to IEC 60 529:
– IP 54

Supply includes:
– Cross member
– Assembly parts

Height mm	For enclosure width mm	Packs of	Model No.
100	400	1 pc(s).	**9682.334**
300	400	1 pc(s).	**9682.344**
100	600	1 pc(s).	**9682.336**
300	600	1 pc(s).	**9682.346**
100	800	1 pc(s).	**9682.338**
300	800	1 pc(s).	**9682.348**
100	1000	1 pc(s).	**9682.330**
300	1000	1 pc(s).	**9682.340**
100	1200	1 pc(s).	**9682.332**
300	1200	1 pc(s).	**9682.342**



Modular front design



Front trim panel, bottom, vented

To finish off the modular front design at the bottom when using partial doors. The front trim panels may be removed from the outside by unscrewing.

Design:
– With louvres

Material:
– Sheet steel, 1.5 mm

Surface finish:
– Textured paint

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 2X

Supply includes:
– Cross member
– Assembly parts

Note:
– When using front trim panels IP 2X, select a roof plate with protection category IP 2X for the top ventilation

Height mm	For enclosure width mm	Packs of	Model No.
300	400	1 pc(s).	**9682.354**
300	600	1 pc(s).	**9682.356**
300	800	1 pc(s).	**9682.358**
300	1000	1 pc(s).	**9682.350**
300	1200	1 pc(s).	**9682.352**

Also required:

– Roof plate IP 2X with ventilation hole, see page 61

Trim panel, hinged at the top

For the installation of control and display components, in conjunction with a modular front design and protective bar.

Material:
– Sheet steel, 2 mm

Surface finish:
– Textured paint

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 54

Supply includes:
– Hinges
– Cam lock with 3 mm double-bit insert
– Assembly parts

Height mm	For enclosure width mm	Packs of	Model No.
300	600	1 pc(s).	**8620.500**
300	800	1 pc(s).	**8620.501**
300	1200	1 pc(s).	**8620.502**

Accessories:

– Stay, see page 58
– Lock insert, see page 60

Support stay

for trim panel, hinged at the top
5 pitch pattern positions up to a maximum opening angle of approx. 85°.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Packs of	Model No.
2 pc(s).	**8801.260**

Mini-comfort handle AX

for partial doors with cam lock

The lock is opened by swivelling the unlocked handle. Prepared for the installation of lock inserts or for the installation of standard commercially available 40 or 45 mm profile half-cylinders, as well as lock and push-button inserts.

Other variants prepared for ASSA oval profile half-cylinder up to a maximum overall length of 26.9 mm and KESO/KABA profile half-cylinder up to a maximum overall length of 42.5 mm and a Ø of 22 mm.

				
	For lock inserts or profile half-cylinders	For padlocks and lock inserts or profile half-cylinders	Prepared for ASSA	Prepared for KESO/KABA
	Model No.			
Die-cast zinc RAL 7035	**2537.100**	**2537.300**	**2537.400**	**2537.500**
Lock inserts, type A				
7 mm square	2460.000	2460.000	–	–
8 mm square	2461.000	2461.000	–	–
7 mm triangular	2462.000	2462.000	–	–
8 mm triangular	2463.000	2463.000	–	–
Screwdriver	2464.000	2464.000	–	–
Daimler insert	2465.000	2465.000	–	–
3 mm double-bit	2466.000	2466.000	–	–
Fiat	2307.000	2307.000	–	–
6.5 mm triangular	2460.650	2460.650	–	–
Lock and push-button inserts				
Lock insert, lock no. 3524 E[1)]	2467.000	2467.000	–	–
Push-button insert	2468.000	2468.000	–	–
Push-button and lock insert[1)]	2469.100[2)]	2469.100[2)]	–	–
Profile half-cylinders				
to DIN 18 252[3)]	9785.040[5)]	9785.040[5)]	–	–
	9785.042[4)]	9785.042[4)]	–	–

[1)] With 2 keys
[2)] Lock no. 2123; no other lock is possible
[3)] With 3 keys for each lock insert
[4)] Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs
[5)] Different closures

Lock system

Lock inserts

for mini-comfort handle AX

		
	Model No.	
Lock insert, lock no. 3524 E[1)]	**2467.000**	**–**
Push-button insert	**2468.000**	**–**
Push-button and lock insert[1)]	**2469.100[2)]**	**–**
Profile half-cylinders to DIN 18 252[3)]	**–**	**9785.040[5)]**
	–	**9785.042[4)]**

[1)] With two keys
[2)] Lock no. 2123; no other lock is possible
[3)] With 3 keys for each lock insert
[4)] Packs of two, simultaneous locking within the same pack, no simultaneous locking for different packs
[5)] Different closures

Enclosure key

For lock inserts. Enclosure, case and lock systems are supplied as standard with matching keys.

				
	Model No.			
	–	**–**	**2549.000**	**2549.500[2)]**
Double-bit no. 5	**2531.000**	**–**	■	■
Security lock no. 3524 E	**–**	**2532.000[1)]**	**–**	**–**
7 mm triangular	**2545.000**	**–**	**–**	■
8 mm triangular	**2546.000**	**–**	■	■
7 mm square	**2547.000**	**–**	**–**	■
8 mm square	**2548.000**	**–**	■	■
for Daimler	**2521.000**	**–**	**–**	**–**
for Fiat	**2308.000**	**–**	**–**	**–**

[1)] Packs of 2
[2)] With bit adaptor and reversible bit for multi-tooth size 25 and Phillips-head (Ph 2)

Roof

Roof plate IP 55, solid

For enclosures without roof plate and in exchange for the standard roof.

Material:
– Sheet steel, 1.5 mm

Surface finish:
– Textured paint

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 55

Supply includes:
– Assembly parts

For width mm	For depth mm	Packs of	Model No.
400	600	1 pc(s).	**9681.646**
400	800	1 pc(s).	**9681.648**
600	600	1 pc(s).	**9681.666**
600	800	1 pc(s).	**9681.668**
600	1000	1 pc(s).	**9681.660**
600	1200	1 pc(s).	**9681.662**
800	600	1 pc(s).	**9681.686**
800	800	1 pc(s).	**9681.688**
800	1000	1 pc(s).	**9681.680**
800	1200	1 pc(s).	**9681.682**

Accessories:

– Pressure stoppers, see page 62
– Arc flash kit, class A, see page 63
– Arc flash kit, class B, see page 63

Roof plate IP 2X with ventilation hole

For enclosures without roof plate and in exchange for the standard roof.

Material:
– Sheet steel, 1.5 mm

Surface finish:
– Textured paint

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 2X

Supply includes:
– Assembly parts

For width mm	For depth mm	Build height mm	Packs of	Model No.
400	600	72	1 pc(s).	**9681.846**
400	800	72	1 pc(s).	**9681.848**
600	600	72	1 pc(s).	**9681.866**
600	800	72	1 pc(s).	**9681.868**
800	600	72	1 pc(s).	**9681.886**
800	800	72	1 pc(s).	**9681.888**
1000	600	72	1 pc(s).	**9681.806**
1000	800	72	1 pc(s).	**9681.808**
1200	600	72	1 pc(s).	**9681.826**
1200	800	72	1 pc(s).	**9681.828**

Roof plate for cable entry glands

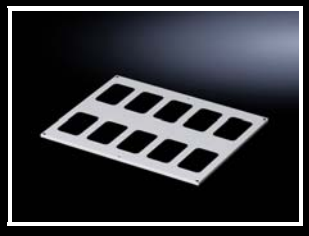
For enclosures without roof plate and in exchange for the standard roof.

Material:
– Sheet steel, 1.5 mm

Surface finish:
– Textured paint

Colour:
– RAL 7035

Supply includes:
– Assembly parts



For width mm	For depth mm	Required no. of glands	Packs of	Model No.
400	600	3	1 pc(s).	**9681.546**
400	800	4	1 pc(s).	**9681.548**
600	400	2	1 pc(s).	**9681.564**
600	600	4	1 pc(s).	**9681.566**
600	800	8	1 pc(s).	**9681.568**
800	600	8	1 pc(s).	**9681.586**
800	800	8	1 pc(s).	**9681.588**
850	400	3	1 pc(s).	**9681.594**
850	600	6	1 pc(s).	**9681.596**
1100	400	4	1 pc(s).	**9681.514**
1100	600	8	1 pc(s).	**9681.516**

Also required:

– Cable entry gland, see page 62

Roof

Pressure stoppers

for roof plate
For converting the IP 55 roof plate into a roof plate with pressure relief function. The pressure relief function is essential for compliance with health and safety regulations for arc-proofing to IEC/TR 61 641. After fitting the pressure stopper, a protection category of IP 54 is achieved.

Material:
– Polyamide

Supply includes:
– 4 warning stickers

Note:
– 2 pressure stoppers and 1 warning sticker are required for one roof plate
– The arc-proofing compliance limits are dependent on the busbar system used

Packs of	**Model No.**
4 pc(s).	**9674.790**

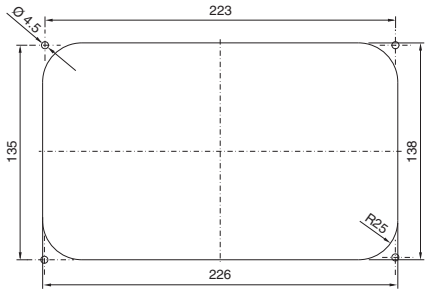
Cable entry gland

for roof plate
For simple, secure cable entry in the roof zone.

Colour:
– RAL 7035

Protection category IP to IEC 60 529:
– IP 55

Supply includes:
– Seal



Cut-out dimensions for 9665.750 to 9665.785

Design	Material	Width mm	Depth mm	Packs of	**Model No.**
14 x M25/32	Insulating material	250	160	1 pc(s).	**9665.750**
2 x M25/32/40, 1 x M32/40/50, 2 x M40/50/63	Insulating material	250	160	1 pc(s).	**9665.760**
With sealing membranes 32 x Ø 7 – 16 mm, 4 x Ø 10 – 20 mm, 3 x Ø 14 – 26 mm	Insulating material	250	160	1 pc(s).	**9665.770**
With entry fittings up to Ø 66 mm	Insulating material	250	160	1 pc(s).	**9665.780**
Solid	Sheet steel, spray-finished	250	160	4 pc(s).	**9665.785**

Roof

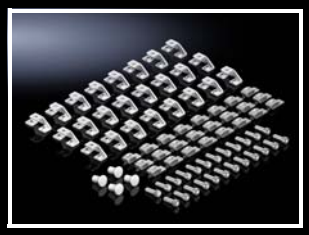
Arc flash kit, class A

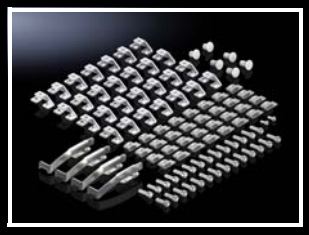
To achieve arc flash class A (human safety) to IEC/TR 61 641. Suitable for two enclosure panels.

Material:
– Steel
– Plastic

Supply includes:
– 4 plugs for roof plate
– 4 warning stickers
– Certificate
– Assembly parts

Note:
– A pressure relief function for the roof plate is essential for compliance with health and safety regulations for accidental arcing protection to IEC/TR 61 641. The IP 55 roof plate may be converted by fitting the pressure stopper, which achieves a protection category of IP 54.
– 2 pressure stoppers and 1 warning sticker are required for one roof plate
– The arc-proofing compliance limits are dependent on the busbar system used
– The enclosure panel holders for the side and rear panel already attached to the enclosure section should be replaced with the enclosure panel holders from the accidental arcing kit





For enclosure width mm	For enclosure depth mm	Design	Product-specific scope of supply	Packs of	**Model No.**
600 800 1000 1200	600 800	For single-door VX	24 enclosure panel holders	1 pc(s).	**9686.400**
600 800 1000 1200	600 800	For two-door VX	28 enclosure panel holders 2 plugs for roof plate 4 reinforcements for door locking bar	1 pc(s).	**9686.410**

Arc flash kit, class B

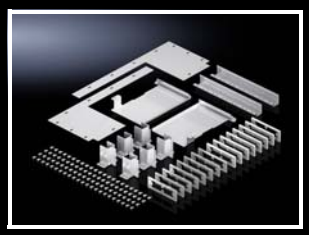
To achieve arc flash class B (human safety and protection of equipment) to IEC/TR 61 641. Suitable for one enclosure panel.

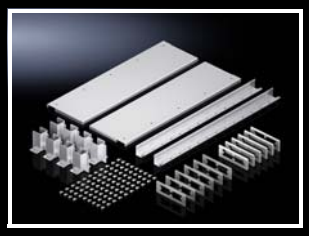
Material:
– Steel
– Plastic
– Silicone

Supply includes:
– 2 metal covers
– 2 roof mounting brackets for sacrificial anodes
– Certificate
– Assembly parts

Note:
– To achieve arc flash class B in single-door enclosures, the accidental arcing kit 9640.400 is additionally required and for two-door enclosures, kit 9640.410.

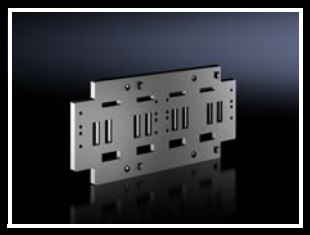
Also required:
– Arc flash kit, class A, see page 63





For enclosure width mm	For enclosure depth mm	Design	Product-specific scope of supply	Packs of	**Model No.**
600 800 1000 1200	600 800	For busbar system assembly in the roof section	2 metal partitions 6 sacrificial anodes 8 seals 8 plastic covers	1 pc(s).	**9686.420**
600 800 1000 1200	600 800	For busbar system assembly in the rear section	8 sacrificial anodes 6 seals 6 plastic covers	1 pc(s).	**9686.430**

Flat-PLS



Busbar support

for distribution busbar system
For assembling vertical distribution busbar systems (2 x 30 x 10mm, 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

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 91

Accessories:
– End cover, see page 66

Busbar support

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

Colour:
– Similar to RAL 9005

Supply includes:
– Assembly parts

Also required:
– Busbars E-Cu, see page 91
– Cage nuts, see page 90

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

Accessories:
– End cover, see page 66

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

Busbar support

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

Colour:
– Similar to RAL 9005

Supply includes:
– Assembly parts

Also required:
– Busbars E-Cu, see page 91
– Longitudinal connector E-Cu, see page 67
– Cage nuts, see page 90

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

Accessories:
– End cover, see page 66

Possible alternative:
– Busbar E-Cu, slotted, see page 66

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

Busbar support

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

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 91
– Cage nuts, see page 90

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

Accessories:
– End cover, see page 66

Flat-PLS

Busbar support

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

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 91
– Longitudinal connector E-Cu, see page 67
– Cage nuts, see page 90

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

Accessories:
– End cover, see page 66

Possible alternative:
– Busbar E-Cu, slotted, see page 66

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

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

Accessories:
– Longitudinal connector E-Cu, see page 67

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

Longitudinal connector E-Cu

for busbars
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	Approvals	Packs of	**Model No.**
55 x 10	195	1	UL	1 pc(s).	**9686.260**
100 x 10	195	2 4	UL	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 dimension 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 70

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 dimension mm	Packs of	**Model No.**
2	40	8 pc(s).	**9676.832**

Also required:
– M10 screw, see page 70

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 dimension mm	Packs of	**Model No.**
2	95 - 300	60	1 pc(s).	**9676.730**

Also required:
– M10 screw, see page 70

Assembly instruction:
– The required screw length must be selected in line with the busbar width W, i.e. length = W + fastening measurement.
– 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 dimension 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 70

Assembly instruction:
– The required screw length must be selected in line with the busbar width W, i.e. length = W + fastening measurement.
– Busbar claw with threaded insert M10

Accessories:
– Laminated copper bar, see page 91

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-conductors per phase	Mounting dimension 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 70

Assembly instruction:
– The required screw length must be selected in line with the busbar width W, i.e. length = W + fastening measurement.
– Busbar claw with threaded insert M10

Connection plate

for laminated copper bars
For connecting laminated copper bars to a flat copper main or distributor busbar system in the roof or base area.

Material:
– E-Cu

Surface finish:
– Copper tin alloy

Packs of	**Best.-Nr.**
1 pc(s).	**9686.750**

Also required:
– Clamping plate, see page 69
– Screw 9686.845, see page 75

Accessories:
– Laminated copper bars, see page 91

Clamping plate

for laminated copper bars
For fastening laminated copper bars.

Material:
– Clamping plate: Stainless steel
– Connection infill: E-Cu, silver-plated

Clamping area width mm	Clamping area height mm	Packs of	**Best.-Nr.**
32	20	1 pc(s).	**9686.720**
63	20	1 pc(s).	**9686.730**
100	20	1 pc(s).	**9686.740**

Also required:
– Screw 9686.845 or 9686.865, see page 75

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 70
– Filler piece, see page 70

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 support

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

Colour:
– Similar to RAL 9011

Supply includes:
– Assembly parts

Approvals:
– UL

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**

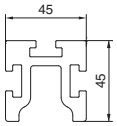
Also required:
– Maxi-PLS busbar, E-Cu for Maxi-PLS 45 S system, see page 71
– Maxi-PLS busbar, E-Cu for Maxi-PLS 45 system, see page 71
– Maxi-PLS busbar, E-Cu for Maxi-PLS 60 system, see page 72

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



Maxi-PLS 45 S

Cross-section 974 mm²

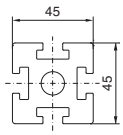
For enclosure width mm	Length mm	Approvals	Packs of	Model No.
600	451	UL	1 pc(s).	**9640.207**
800	651	UL	1 pc(s).	**9640.237**
1000	851	UL	1 pc(s).	**9640.267**
1200	1051	UL	1 pc(s).	**9640.297**
–	2400	–	3 pc(s).	**9640.365**

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



Maxi-PLS 4

Cross-section 1354 mm²

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

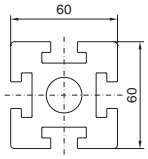
Maxi-PLS

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



Maxi-PLS 60

Cross-section 2323 mm²

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

Connection clamp

for round conductors
For the connection of round conductors.

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

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, silver-plated
– Thrust piece: Stainless steel

Supply includes:
– Assembly parts

Approvals:
– UL

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 91

Terminal studs

for Maxi-PLS
For connecting cables with ring terminals

Material:
– Terminal stud: Steel, zinc-plated
– Sliding block: Copper alloy

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

Approvals:
– UL

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:
– Copper alloy

Approvals:
– UL

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 74

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

Also required:
– Threaded bolts, see page 74

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

Threaded bolts

for sliding blocks and sliding nuts
For individual connection options

Material:
– Steel

Supply includes:
– Assembly parts

Approvals:
– UL

Also required:
– Sliding block, see page 73
– Sliding nut, see page 74

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**

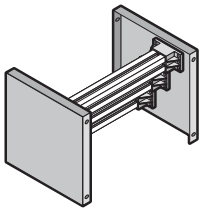
Compact infeed

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
– 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:
– Steel, zinc-plated

Supply includes:
– 8 nuts and 16 washers

Screw design mm	Packs of	Model No.
M10 x 35	8 St.	**9686.830**
M10 x 40	8 St.	**9676.966**
M10 x 45	8 St.	**9686.845**
M10 x 55	8 St.	**9686.865**
M10 x 60	8 St.	**9676.967**
M10 x 65	8 St.	**9686.855**
M10 x 75	8 St.	**9686.870**
M10 x 80	8 St.	**9676.968**
M10 x 85	8 St.	**9686.885**
M10 x 95	8 St.	**9686.890**
M10 x 110	8 St.	**9686.811**
M10 x 130	8 St.	**9686.813**
M10 x 150	8 St.	**9686.815**
M10 x 160	8 St.	**9686.816**
M10 x 180	8 St.	**9686.818**

Support set (stabiliser)

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

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

Supply includes:
– 4 plastic stabilisers (length per stabiliser 1100 mm)
– 2 angle brackets
– Assembly parts

Approvals:
– UL

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).

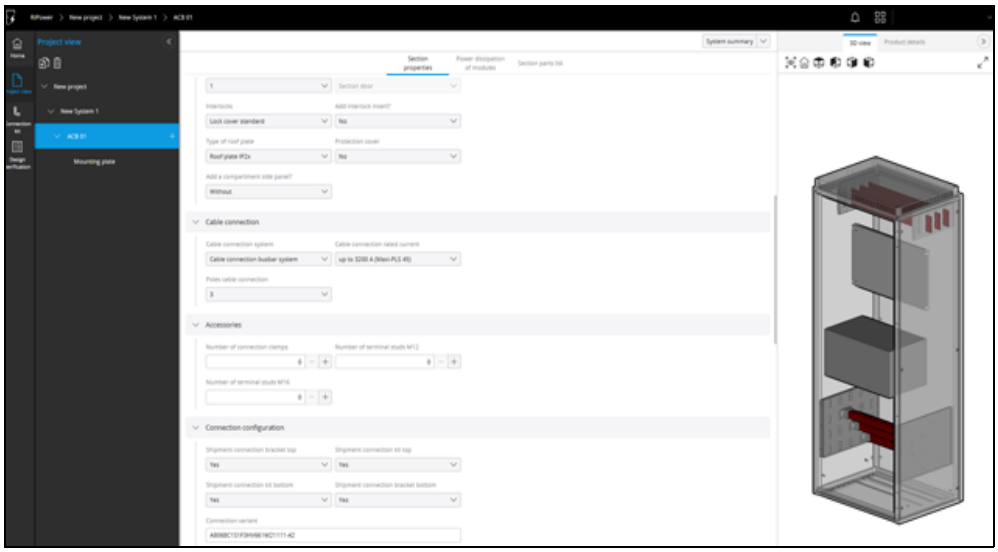
Material:
– E-Cu

Note:
– The design code required for the configuration code is generated by the RiPower configurator (www.rittal.com/RiPower-configurator)
– Please quote the complete configuration code on all enquiries and orders (see example)

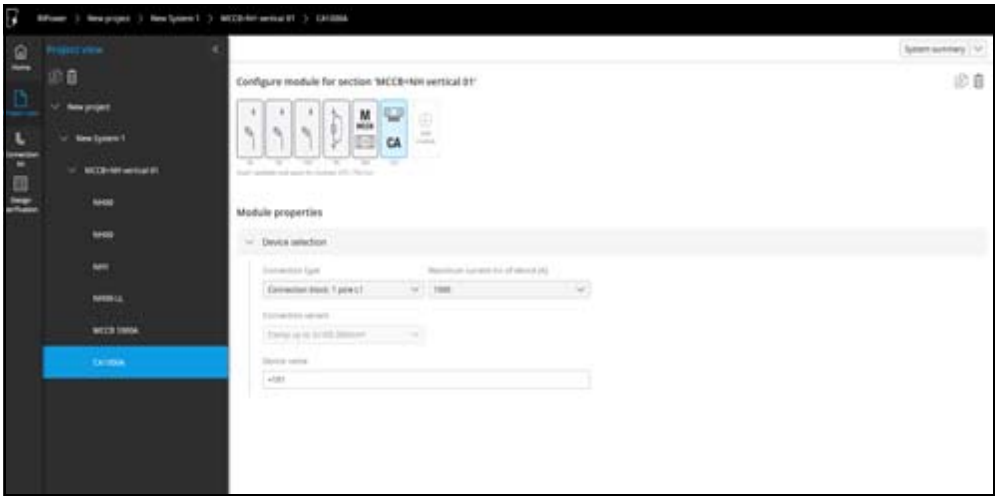
Configuration code = order number + design code	Description	Section types
Model No. **9686.912** + design code	Connector kit for top/bottom	Air circuit-breakers (ACB), coupling section, cable transition section
Model No. **9686.924** + design code	T-connector kit for top/bottom	Modular outgoing feeder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

Example of creating the configuration code

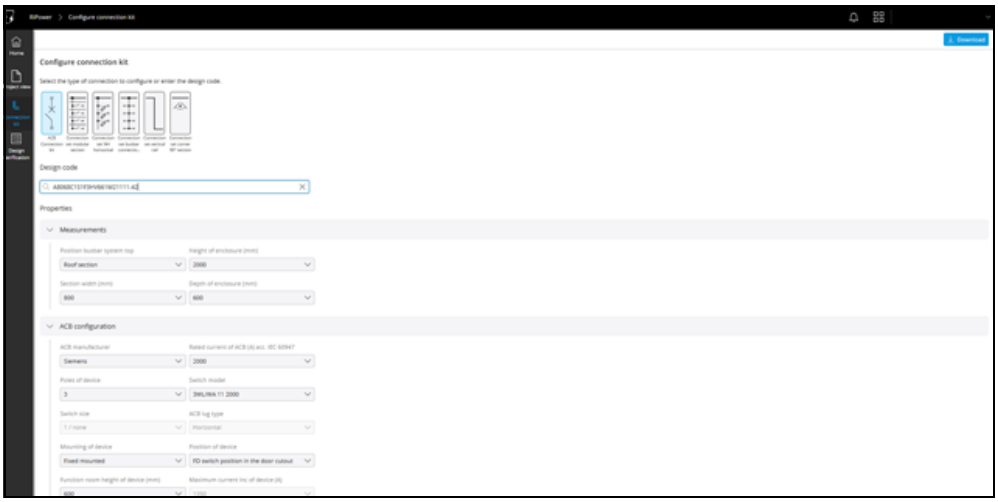
1. Select section type "air circuit-breaker"

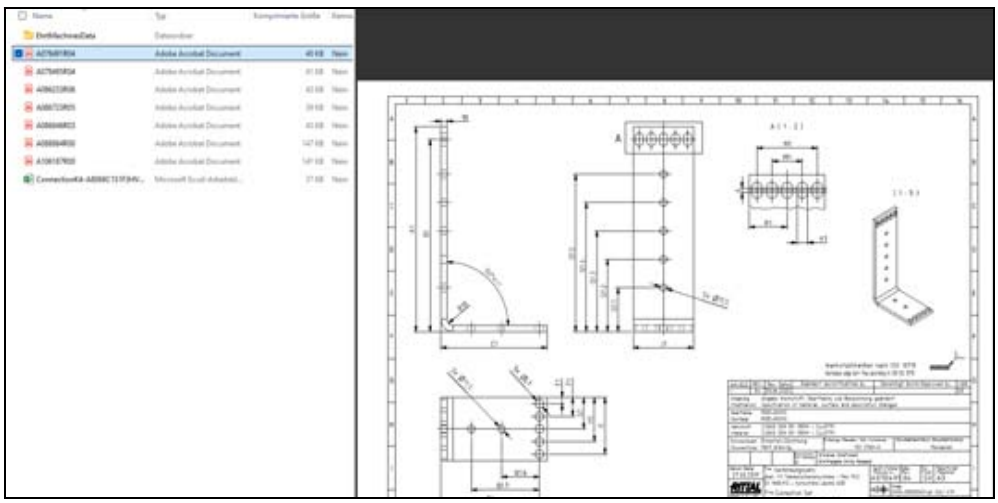


2. Select switch and manufacturer and enter other technical parameters, such as busbar position, number of poles, rated current etc.

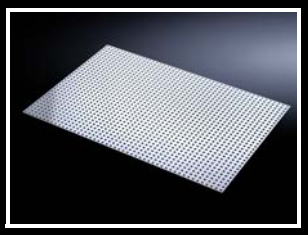


3. The connector kit data is output using the "Configure connection kit" function. Design code and associated drawings (.dwg, .pdf) are available via the "Download" function. The configuration code for the enquiry or order will then look like this:
Air circuit-breaker (ACB) Model No. 9686.912 + A8068C1S1F3HV661M21111-42





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 78

Mounting bracket

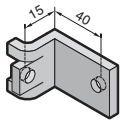
for contact hazard protection cover
For the attachment of contact hazard protection covers. Tapped hole M6. The mounting bracket is fitted to the enclosure frame.

Material:
– Sheet steel

Surface finish:
– Zinc-plated

Supply includes:
– Assembly screws

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



Contact hazard protection cover

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:
– 2 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 support 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 79

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**

Cover

for form separation in the roof section

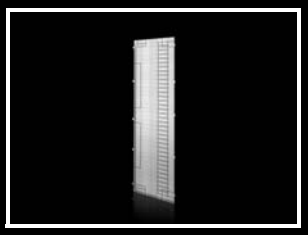
To achieve form separation for main busbar systems in the roof section with compartment dividers without compartment side panels.

Material:
– Sheet steel

Supply includes:
– Assembly parts

For enclosure depth mm	Packs of	**Model No.**
600/800	2 pc(s).	**9683.720**

Form 1-4



Compartment side panel

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 80
– Compartment divider, see page 81
– Partial mounting plate, see page 83
– Cross member cutter, see page 92

Plastic gland plate

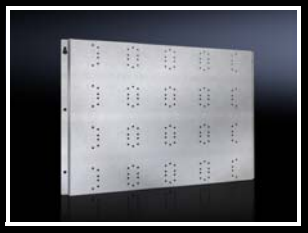
for compartment side panel
For closing cable entry openings.

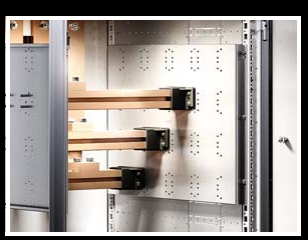
Material:
– PVC, 3 mm

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

Approvals:
– UL

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 support, see page 71

Compartment divider

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

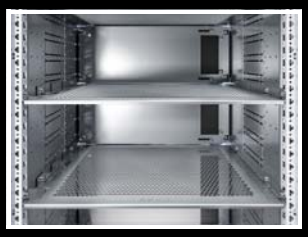
Supply includes:
– Assembly parts

Assembly instruction:

– For assembling compartments as internal Form separation, compartment side panels are required

Accessories:

– Plastic gland plate, see page 82
– Compartment side panel, see page 80
– Cross member cutter, see page 92



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**

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 82

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

Solid design

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 compartment 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 compart-ment height mm	Number 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**

Busbar support

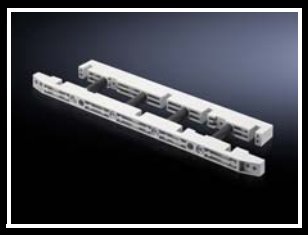
for fuse-switch disconnector section
Busbar support for the distribution busbar system of the fuse-switch disconnector section.

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 91
– End support, see page 85



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 91

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 86

Punched rail

Set for cover of 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 fuse-switch disconnector 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

Busbar support

N conductor
For assembling 1-pole neutral or PEN conductors. The busbar holder is mounted onto the enclosure section.

Material:
– Polyamide
– Fire protection corresponding to UL 94

Colour:
– Similar to RAL 9005

Supply includes:
– Assembly parts

For busbar mm	Packs of	Model No.
50 x 10	2 pc(s).	**9686.300**

Also required:
– Busbars E-Cu, see page 91

Assembly instruction:
– For the installation of max. 4 busbars (sub-conductors) per phase

Accessories:
– Longitudinal connector E-Cu, see page 67

PE/PEN busbar E-Cu

With integral punchings.

Material:
– E-Cu

Standards:
– DIN EN 13601

Accessories:
– PE/PEN angle bracket, see page 88
– PE/PEN baying bracket E-Cu, see page 88

Dimension 30 x 5 mm

For enclosure width mm	Length mm	Hole Ø mm	Approvals	Packs of	Model No.
400	300	11.5	–	2 pc(s).	**9686.524**
600	500	11.5	UL	2 pc(s).	**9686.526**
800	700	11.5	UL	2 pc(s).	**9686.528**
1000	900	11.5	UL	2 pc(s).	**9686.520**
1200	1100	11.5	UL	2 pc(s).	**9686.522**

Dimension 30 x 10 mm

For enclosure width mm	Length mm	Hole Ø mm	Approvals	Packs of	Model No.
400	300	11.5	–	2 pc(s).	**9686.534**
600	500	11.5	UL	2 pc(s).	**9686.536**
800	700	11.5	UL	2 pc(s).	**9686.538**
1000	900	11.5	UL	2 pc(s).	**9686.530**
1200	1100	11.5	UL	2 pc(s).	**9686.532**

Dimension 40 x 10 mm

For enclosure width mm	Length mm	Hole Ø mm	Approvals	Packs of	Model No.
400	300	11.5	–	2 pc(s).	**9686.544**
600	500	11.5	UL	2 pc(s).	**9686.546**
800	700	11.5	UL	2 pc(s).	**9686.548**
1000	900	11.5	UL	2 pc(s).	**9686.540**
1200	1100	11.5	UL	2 pc(s).	**9686.542**

Dimension 80 x 10 mm

For enclosure width mm	Length mm	Hole Ø mm	Approvals	Packs of	Model No.
400	300	11.5	–	2 pc(s).	**9686.584**
600	500	11.5	UL	2 pc(s).	**9686.586**
800	700	11.5	UL	2 pc(s).	**9686.588**
1000	900	11.5	UL	2 pc(s).	**9686.580**
1200	1100	11.5	UL	2 pc(s).	**9686.582**

Earthing

PE/PEN angle bracket

For attaching the PE/PEN busbar to the enclosure section.

Material:
– Sheet steel, 3.0 mm

Supply includes:
– Assembly parts

For busbar mm	Packs of	Model No.
30 x 5 30 x 10 40 x 10 80 x 10	2 pc(s).	**9686.350**

PE/PEN baying bracket E-Cu

For connecting the busbars from enclosure to enclosure.

Material:
– E-Cu

Approvals:
– UL

Standards:
– DIN EN 13601

Dimensions mm	Length mm	Packs of	Model No.
30 x 5	180	2 pc(s).	**9686.529**
30 x 10	180	2 pc(s).	**9686.539**
40 x 10	180	2 pc(s).	**9686.549**
80 x 10	180	2 pc(s).	**9686.589**

Punched section without mounting flange, 23 x 64 mm

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

Benefits:
- Easily attached to the enclosure section, even with the mounting panel in the rearmost position
- With slots at the top and bottom for cage nuts, for attaching your own components via metric screws
- System punchings on all four sides

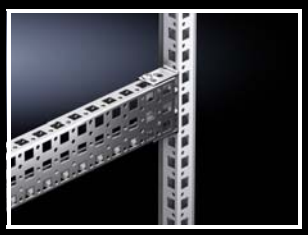
Installation options:
- On the inner mounting level, on the enclosure section
- Upright or flat between two punched sections on the inner mounting level
- Between two punched sections on the inner mounting level

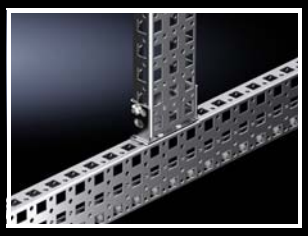
Material:
- Sheet steel

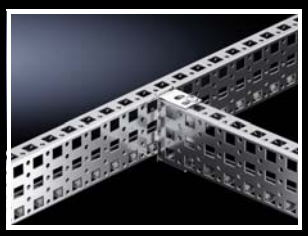
Surface finish:
- Zinc-plated

Supply includes:
- 2 punched sections without mounting flanges
- 4 mounting brackets
- Assembly parts

For enclosure width/height/depth mm	Packs of	Model No.
400	2 pc(s).	**8100.740**
600	2 pc(s).	**8100.742**
800	2 pc(s).	**8100.743**







Punched section with mounting flange, 23 x 64 mm

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 inner mounting level, on the enclosure section
- In the base/plinth system VX, in the width and depth, combined with a base/plinth installation bracket
- On identical punched sections with mounting flanges

Material:
- Sheet steel

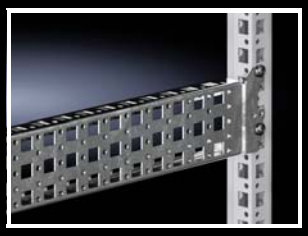
Surface finish:
- Zinc-plated

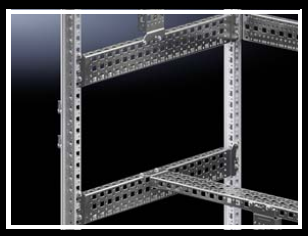
Supply includes:
- Assembly parts

For enclosure width/height/depth mm	Packs of	Model No.
600	4 pc(s).	**8617.130**
800	4 pc(s).	**8617.140**
2000	4 pc(s).	**8617.200**

Accessories:

- Cage nuts, see page 90





Rail systems/assembly components/wiring system

Cage nut

For all-round metric mounting on the enclosure section.

Benefits:
- For all-round mounting on the enclosure section
- The compression spring, designed as an insertion aid, ensures reliable mechanical and electrical connection in the system punchings
- Simply slides in from the side
- Safely and easily released with a screwdriver

Installation options:
- On the horizontal and vertical VX enclosure section
- On punched sections with mounting flanges, 23 x 64 mm
- On punched sections with mounting flanges, 23 x 89 mm, stainless steel

Thread	Packs of	**Model No.**
M8	20 pc(s).	**4165.500**

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

Inner front cover of the main busbar system with the option of mounting a 40 x 20 mm (W x D) 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**

Busbars and laminated copper bars

E-Cu busbars

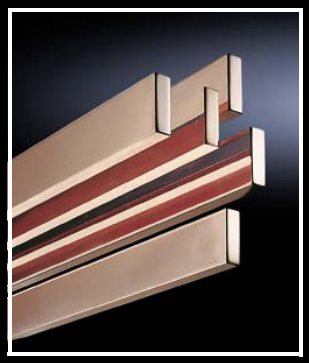
To DIN EN 13 601

Length: 2400 mm/bar

Material:
– E-Cu F30

Dimensions mm	Length mm	Approvals	Packs of	Model No.
30 x 5	2400	UL	6 pc(s).	**3584.000**
30 x 10	2400	UL	3 pc(s).	**3586.005**
50 x 10	2400	–	2 pc(s).	**3588.005**
50 x 10	385	–	1 pc(s).	**9684.004**[1)]
50 x 10	585	UL	1 pc(s).	**9684.006**[1)]
50 x 10	785	UL	1 pc(s).	**9684.008**[1)]
50 x 10	985	UL	1 pc(s).	**9684.010**[1)]
50 x 10	1185	UL	1 pc(s).	**9684.012**[1)]
60 x 10	2400	–	1 pc(s).	**3589.005**
80 x 10	2400	–	1 pc(s).	**3590.005**
100 x 10	2400	–	1 pc(s).	**3590.015**

[1)] With integral holes



Laminated copper bars

Length: 2000 mm/bar

Material:
Cu membranes
– High-purity electrolyte copper F20

Insulation
– High-strength vinyl compound
– Expansion 370%
– Temperature range: -30 °C…+105 °C
– Fire protection corresponding to UL 94
– Dielectric strength: 20 kV/mm

Configuration[1)] mm	I_n at 70 K[2)] A	I_n at 50 K[2)] A	I_n at 30 K[2)] A	Packs of	Model No.
6 x 9 x 0.8	285	240	180	1 pc(s).	**3565.005**
6 x 15.5 x 0.8	415	350	265	1 pc(s).	**3568.005**
10 x 15.5 x 0.8	575	480	365	1 pc(s).	**3569.005**
5 x 20 x 1	525	435	330	1 pc(s).	**3570.005**
5 x 24 x 1	605	510	385	1 pc(s).	**3571.005**
10 x 24 x 1	920	770	585	1 pc(s).	**3572.005**
5 x 32 x 1	770	645	485	1 pc(s).	**3573.005**
10 x 32 x 1	1155	965	730	1 pc(s).	**3574.005**
5 x 40 x 1	930	780	590	1 pc(s).	**3575.005**
10 x 40 x 1	1370	1145	865	1 pc(s).	**3576.005**
5 x 50 x 1	1125	940	710	1 pc(s).	**3577.005**
10 x 50 x 1	1635	1365	1030	1 pc(s).	**3578.005**
10 x 63 x 1	1950	1610	1230	1 pc(s).	**3579.005**

[1)] Number of membranes x membrane width x membrane thickness
[2)] The conductor temperature of the laminated flat 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

Cross member cutter

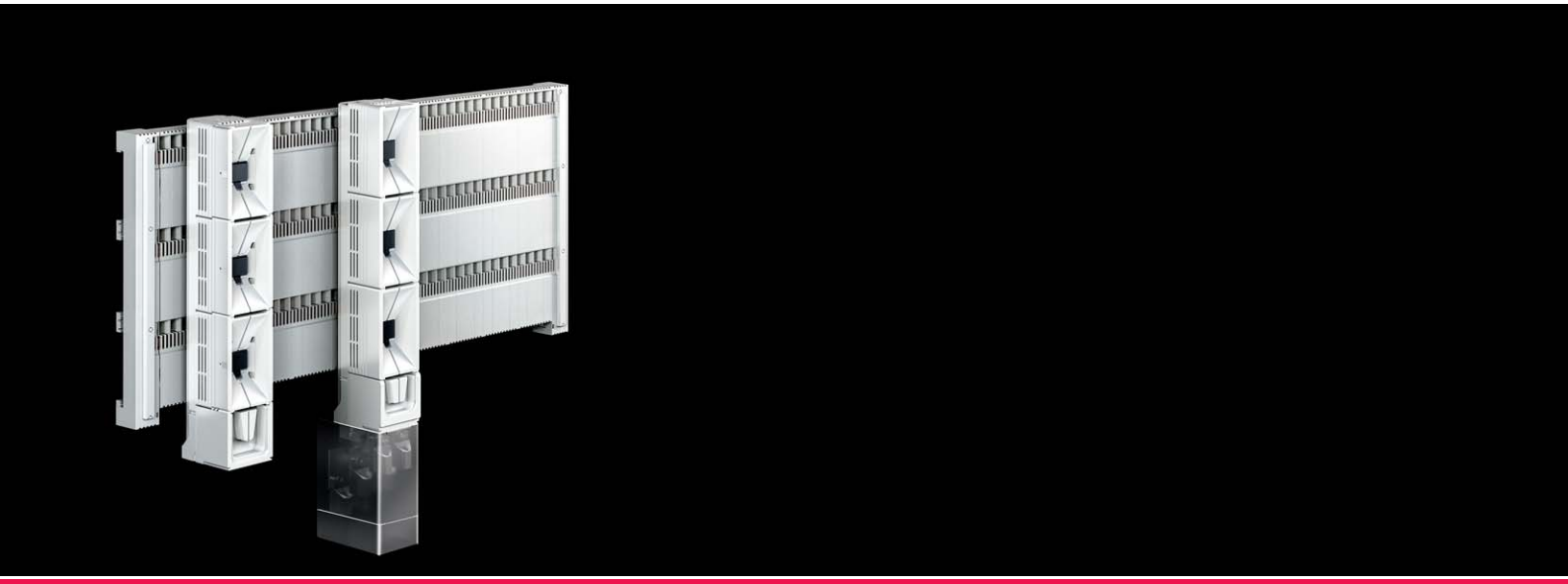
For cutting through micro webs or sheet steel cross members on Ri4Power interior installation components (for example, compartment dividers) or for cutting thin sheets of sheet steel, aluminium or copper up to 1.2 mm thick.

Benefits:
- Cutting of materials without deformation
- Clean edge cuts, no reworking of the cut section required
- Easy to use
- Ergonomically styled handles for fatigue-free, non-slip working

Material:
- Tool body: Special tool steel, rolled, oil-hardened

Supply includes:
- Cross member cutter including swarf deflector

To fit Model No.	Length mm	Design	Packs of	**Model No.**
9680.005 9680.025 9680.207 9680.227 9683.006 9683.008 9683.016 9683.018 9683.036 9683.038 9683.406 9683.408 9683.426 9683.428 9683.444 9683.446 9683.448 9683.464 9683.466 9683.468 9683.484 9683.486 9683.488	280	Straight	1 pc(s).	**4054.870**



Busbar system Page 65/66 **Component adaptors** Page 94 **NH slimline switch-disconnectors** Page 95

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

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		Top/bottom	Top/bottom	
Connection type		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		–	■	
Accessories				
Current converter		see page	–	103

Component adaptor

Busbar system Page 65/66 **Connection adaptors** Page 93 **NH slimline switch-disconnectors** Page 95

Material:
- Polyamide
- Fire protection corresponding to UL 94

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, 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		Screw attachment	Screw attachment	Screw attachment	
Cable outlet		Bottom	Bottom	Bottom	
For switchgear make (model)		ABB (Tmax XT5) Eaton (NZM3) Schneider Electric (NSX630) Siemens (3VA23, 3VA24, 3VL4)	ABB (Tmax XT7 - 800 A/1000 A) Eaton (NZM4 - 800 A/1000 A) Schneider Electric (NS - 800 A/1000 A) Siemens (3VA27 - 800 A/1000 A)	ABB (Tmax XT7 - 1250 A/1600 A) Eaton (NZM4 - 1250 A/1600 A) Schneider Electric (NS - 1250 A/1600 A) Siemens (3VA27 - 1250 A/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	101
Contact hazard protection cover		–	see page	see page	101
Accessories					
Current converter		see page	–	–	103

NH slimline fuse-switch disconnector

Busbar system Page 65/66 **Connection adaptors** Page 93 **Component adaptors** Page 94

Material:
- Polyamide
- Fire protection corresponding to UL 94
- 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, design single-pole, switchable

Size	Packs of	00	1	2	3	Page
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	
Connection type		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	102
Prism terminal	3 pc(s).	9677.420	–	–	–	102
V connection terminal	3 pc(s).	–	9677.430	9677.430	9677.440	102
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	3071.000	105
Current converter	1 pc(s).	9677.810	see page	see page	see page	103
Cover	5 pc(s).	–	9677.415	9677.415	9677.415	104
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	9677.407	104

NH slimline fuse-switch disconnector

Size 00 – 1, design 3-pole, switchable

Size	Packs of	00	00	1	Page
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	
Connection type		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	102
Prism terminal	3 pc(s).	9677.420	–	–	102
V connection terminal	3 pc(s).	–	–	9677.430	102
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	105
Current converter	1 pc(s).	9677.810	9677.810	see page	103
Cover	5 pc(s).	–	–	9677.415	104
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	104

Size 2 – 3, design 3-pole, switchable

Size	Packs of	2	3	3 (twin track)	Page
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	
Connection type		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	–	102
Prism terminal		–	–	–	
V connection terminal	3 pc(s).	9677.430	9677.440	–	102
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	105
Current converter		see page	see page	see page	103
Cover	5 pc(s).	9677.415	9677.415	–	104
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	104

NH slimline fuse-switch disconnector

Busbar system Page 65/66 **Connection adaptors** Page 93 **Component adaptors** Page 94

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

Design	Packs of	3-pole, switchable	3-pole, switchable	3-pole, switchable	3-pole, switchable	Page
Size		00	1	2	3	
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	
Connection type		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	102
Prism terminal	3 pc(s).	9677.420	–	–	–	102
V connection terminal	3 pc(s).	–	9677.430	9677.430	9677.440	102
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	3071.000	105
Current converter	1 pc(s).	9677.810	see page	see page	see page	103
Cover	5 pc(s).	–	9677.415	9677.415	9677.415	104
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	9677.407	104

NH slimline switch-disconnector

Busbar system Page 65/66 **Connection adaptors** Page 93 **Component adaptors** Page 94

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
- 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 – 1, design 3-pole, switchable

Size	Packs of	00	00	1	1	Page
Rated operating current max. A		160	160	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	
Installation type		Screw attachment	Screw attachment	Screw attachment	Screw attachment	
Cable outlet		Bottom	Top	Bottom	Top	
Connection type		Screw M8	Screw M8	Screw M12	Screw M12	
Connection of round conductors mm^2		1.5 - 95	1.5 - 95	6 - 240	6 - 240	
Width mm		50	50	100	100	
Height mm		676	676	772	772	
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).	**9677.065**	**9677.075**	**9677.160**	**9677.165**	
Accessories						
Connection space cover	1 pc(s).	9677.400	9677.400	9677.410	9677.410	102
Connection space cover, rear	1 pc(s).	9677.402	9677.402	9677.412	9677.412	104
Box terminal		–	–	see page	see page	105
Micro-switch	1 pc(s).	9677.418	9677.418	9677.418	9677.418	105
Current converter	1 pc(s).	9677.810	9677.810	–	–	103
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	9677.407	104

NH slimline switch-disconnector

Size 2 – 3, design 3-pole, switchable

Size	Packs of	2	2	3	3	Page
Rated operating current max. A		400	400	630	500	
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		Screw attachment	Screw attachment	Screw attachment	Screw attachment	
Cable outlet		Bottom	Top	Bottom	Top	
Connection type		Screw M12	Screw M12	Screw M12	Screw M12	
Connection of round conductors mm^2		6 - 240	6 - 240	6 - 240	6 - 240	
Width mm		100	100	100	100	
Height mm		772	772	772	772	
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).	**9677.260**	**9677.265**	**9677.360**	**9677.365**	
Accessories						
Connection space cover	1 pc(s).	9677.410	9677.410	9677.410	9677.410	102
Connection space cover, rear	1 pc(s).	9677.412	9677.412	9677.412	9677.412	104
Box terminal		see page	see page	see page	see page	105
Micro-switch	1 pc(s).	9677.418	9677.418	9677.418	9677.418	105
Current converter		–	–	–	–	
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	9677.407	104

NH slimline switch-disconnector

Busbar system Page 65/66 **Connection adaptors** Page 93 **Component adaptors** Page 94

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
- 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

Design	Packs of	3-pole, switchable	3-pole, switchable	3-pole, switchable	3-pole, switchable	Page
Size		00	1	2	3	
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	
Installation type		Screw attachment	Screw attachment	Screw attachment	Screw attachment	
Cable outlet		Bottom	Bottom	Bottom	Bottom	
Connection type		Screw M8	Screw M12	Screw M12	Screw M12	
Connection of round conductors mm^2		1.5 - 95	6 - 240	6 - 240	6 - 240	
Width mm		50	100	100	100	
Height mm		860	941	941	941	
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).	**9677.085**	**9677.180**	**9677.280**	**9677.380**	
Accessories						
Connection space cover	1 pc(s).	9677.400	9677.410	9677.410	9677.410	102
Connection space cover, rear	1 pc(s).	9677.402	9677.412	9677.412	9677.412	104
Box terminal		–	see page	see page	see page	105
Micro-switch	1 pc(s).	9677.418	9677.418	9677.418	9677.418	105
Current converter	1 pc(s).	9677.810	–	–	–	103
Trim strip	2 pc(s).	9677.407	9677.407	9677.407	9677.407	104

185 mm bar centre distance

Adaptor for RiLine Compact components

For mounting RiLine Compact components on 185 mm busbar systems The adaptor consists of two connection points with 160 A each.

Material:
– Fire protection corresponding to UL 94

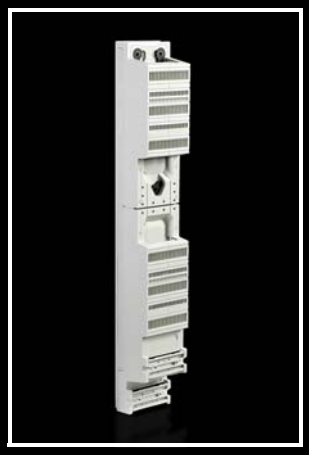
Colour:
– RAL 7035

Note:
– For attaching to busbars with holes. Please ensure that there is no cover section installed in the vicinity of the device.
– Further information on the RiLine Compact system can be found on the Internet

Rated current max. A	320
Rated operating voltage V, ~	690, 3~
Number of poles	3-pole
Cable outlet	Top/bottom
Installation type	Screw attachment
Width mm	100
Height mm	670
Packs of	1 pc(s).
Model No.	**9677.930**

Accessories:

– Current converter, see page 103



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 XT7 - 800 A/1000 A) Schneider Electric (NS - 800 A/1000 A) Siemens (3VA27 - 800 A/1000 A)	9677.705	1 pc(s).	**9677.730**
Eaton (NZM4 - 800 A/1000 A)	9677.705	1 pc(s).	**9677.740**
ABB (Tmax XT7 - 1250 A/1600 A) Schneider Electric (NS - 1250 A/1600 A) Siemens (3VA27 - 1250 A/1600 A)	9677.715	1 pc(s).	**9677.750**
Eaton (NZM4 - 1250 A/1600 A)	9677.715	1 pc(s).	**9677.760**

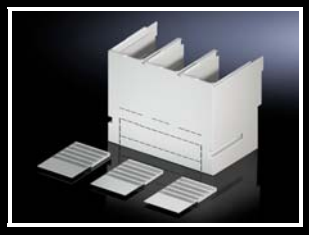
Contact hazard protection cover

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

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**
Schneider Electric (NS1600)	1 pc(s).	**9677.798**



185 mm bar centre distance

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

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**

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**

185 mm bar centre distance

Current converter

Compact design without altering the installation depth via mechanical integration into the top-mounting components (185 mm centre-to-centre spacing); this allows space-saving assembly.

Material:
– Polyamide

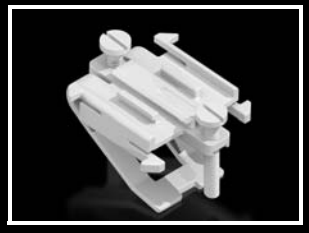
Basis of test:
– IEC 60 044-1
– EN 60 715
– DIN VDE 0414
– DIN 42 600-2

For NH slimline switch-disconnectors								
Size	00	1 - 3	1 - 3	2/3	2/3	3	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	9677.160 9677.165 9677.180 9677.260 9677.265 9677.280 9677.360 9677.365 9677.380	9677.100 9677.110 9677.115 9677.200 9677.210 9677.215 9677.300 9677.310 9677.315 9677.340	9677.260 9677.265 9677.280 9677.360 9677.365 9677.380	9677.200 9677.210 9677.215 9677.300 9677.310 9677.315 9677.340	9677.360 9677.365 9677.380	9677.300 9677.310 9677.315 9677.340	–
For component adaptors/connection adaptors/adaptor for RiLine components								
To fit Model No.	–	9677.930	9677.770 9677.780 9677.900	9677.930	9677.770 9677.780 9677.900	9677.930	9677.770 9677.780 9677.900	9677.930
Primary current A	150	250	250	400	400	500	600	800
Secondary current A	5	5	5	5	5	5	5	5
Accuracy class	1	1	1	1	1	1	1	1
Rated frequency Hz	50 – 60	50 – 60	50 – 60	50 – 60	50 – 60	50 – 60	50 – 60	50 – 60
Insulation class	E	H	H	H	H	H	H	H
Connection of round conductors mm^2	2.5 – 4	2.5 – 4	2.5 – 4	2.5 – 4	2.5 – 4	2.5 – 4	2.5 – 4	2.5 – 4
Connection type	Box terminal	Box terminal	Box terminal	Box terminal	Box terminal	Box terminal	Box terminal	Box terminal
Rated power input VA	2.5	1.5	2.5	1.5	2.5	1.5	2.5	2.5
Packs of	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).	1 pc(s).
Model No.	**9677.810**	**9677.950**	**9677.865**	**9677.951**	**9677.875**	**9677.952**	**9677.885**	**9677.958**
Also required:								
Mounting clamp	–	–	9677.895	–	9677.895	–	9677.895	9677.895

Mounting clamp

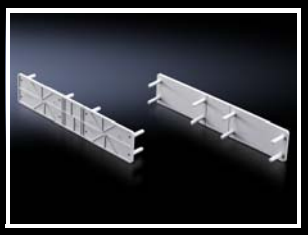
for current converters
For fastening the current converters to connection and component adaptors as well as to NH slimline switch-disconnectors.

To fit Model No.	Packs of	**Model No.**
9677.865 9677.875 9677.885 9677.958	3 pc(s).	**9677.895**



Accessories for top-mounting components

185 mm bar centre distance



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. 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**

Accessories for top-mounting components

185 mm bar centre distance

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**

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 slimline fuse-switch disconnector 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**

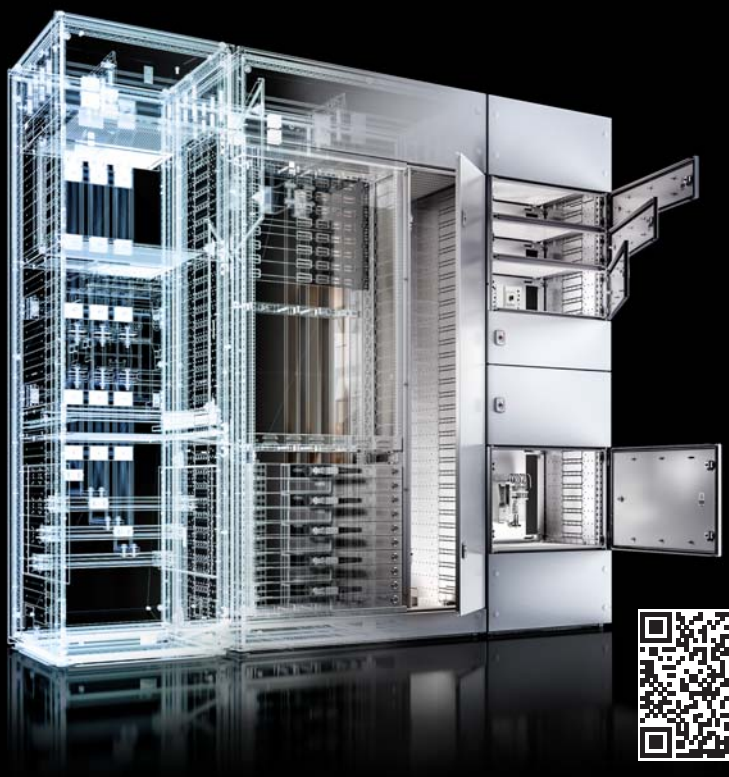
RiPower configurator

The ultimate in user-friendly planning

Our RiPower configurator heralds a new era. Just like the underlying VX25, our RiPower configurator sets new standards when planning low-voltage switchgear. RiPower makes project-planning power distribution and busbar components easy for expert planners and switchgear manufacturers.
It also delivers all the manufacturing documents, parts lists and interfaces needed for downstream processing.

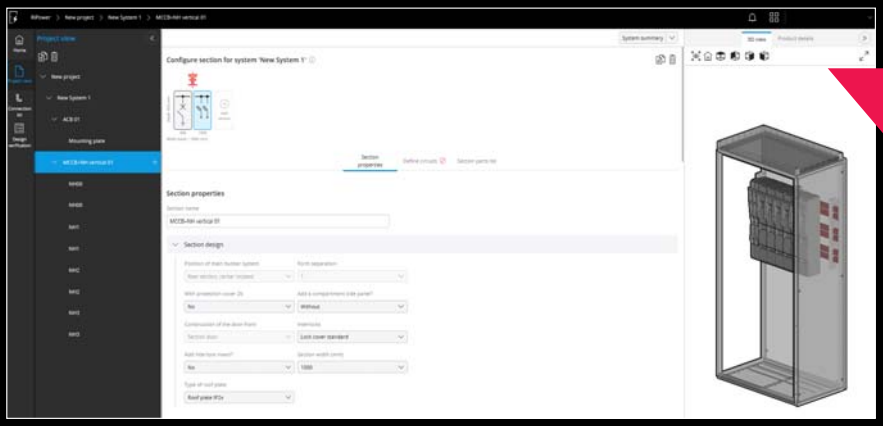
The benefits to you:

- Automatic documentation
- Individual design verification or standard to IEC 61 439
- Interior installation is auto-generated
- Easily achieve standard-compliant systems and eliminate planning errors
- Assembly instructions are auto-generated from the configuration result
- Flexible selection options when ordering copper sets
- Supports subsequent processing with the market's leading tools (Eplan P8, AutoCAD, etc.)
- Tested device components from all popular manufacturers may be automatically integrated
- The configuration results are automatically incorporated into native interfaces such as GAEB (XML) for preparing quotes to end clients
- Order immediately via a direct link to the online webshop



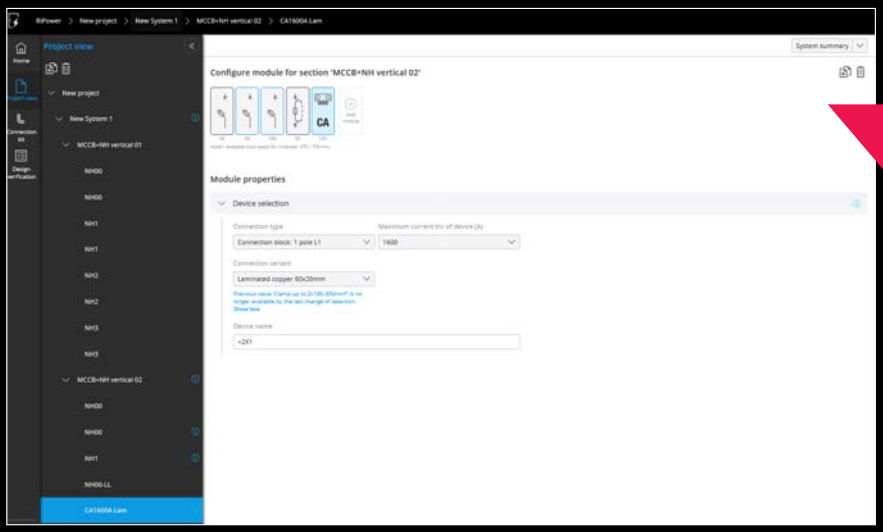
Find out more about RiPower:

www.rittal.com/RiPower-configurator



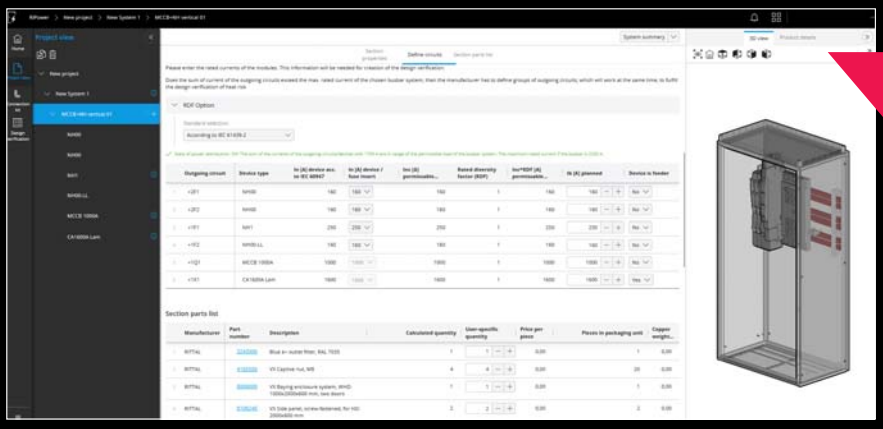
System definition

- Define system parameters to IEC 61 439
- Configure the main busbar system
- Input the key dimensions and planned PE system



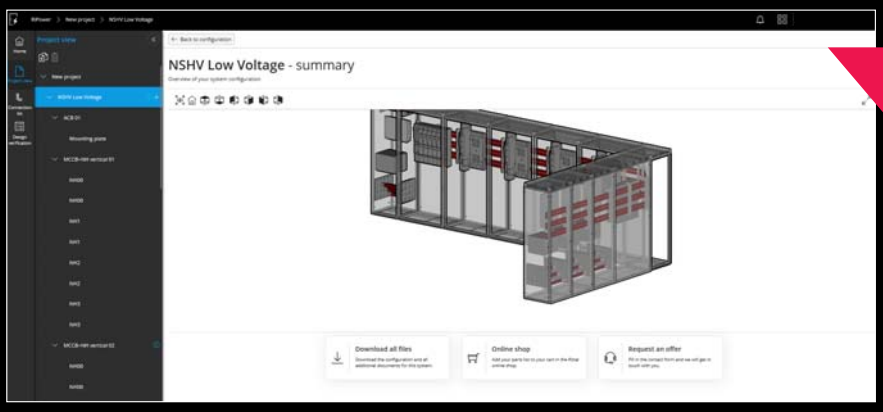
Section selection and configuration

- Compile tested sections into a complete switchgear
- Select certified components from brand-name manufacturers and Rittal power distribution products
- Individually configure sections with selected modules



Circuit calculation

- Determine device-specific properties
- Calculate admissible rated currents I_{nc} (A)
- Calculate the specific rated diversity factor (RDF)



Output

- Automated generation of system documentation including design verification to IEC 61 439
- Documentation of copper bars including free drawings
- Order directly via the webshop link
- Data forwarding to Eplan is supported

Ri4Power

RITTAL AUTOMATION SYSTEMS

Boost productivity at every process stage

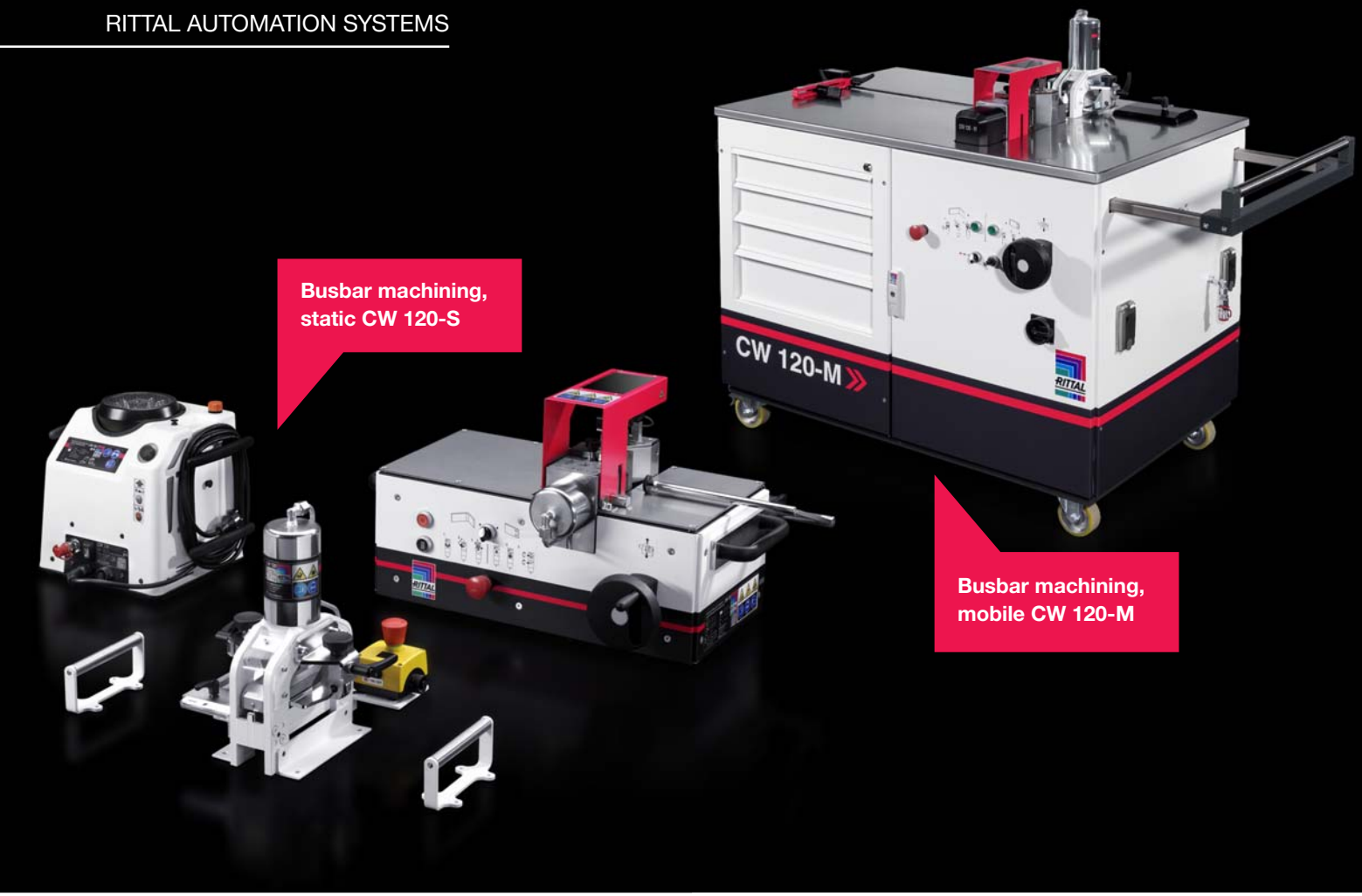
Automating and optimising manual working processes in panel building and switchgear manufacturing helps enhance quality and increase productivity. This approach relies on digital integration and digital continuity throughout the entire value chain.

Work efficiently and ergonomically with busbars

With the aid of digitalisation we achieve the ideal workflow – from engineering right through to production.

- Cut busbars to the required length
- Bend busbars as per the design
- Precisely punch busbars

Find out more:
www.rittal.com/automation



Busbar machining, static CW 120-S

Busbar machining, mobile CW 120-M

Precision
Perfect-fit holes for screw-fastening copper rails may be punched precisely with a simple tool change.

Flexibility
Copper bars are bent with a high degree of precision and dimensional accuracy.

User-friendly
The integral measuring system and folding end stop allows all functions to be conveniently used.

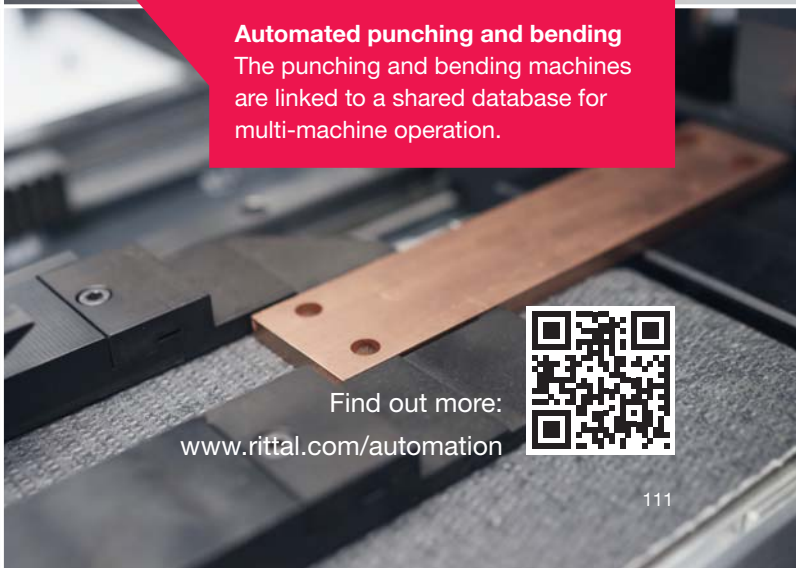
VX25 Ri4Power

Automated busbar machining
Punching Terminal PT S4

Automated busbar machining
EB 20 and EB 40

Simple, intuitive programming of even complex workpieces using the standard machine software packages, PowerCut and PowerBend

The machine software supports the import of data from other sources, including the manufacturer-independent DXF format, as well as data from Eplan and Rittal Ri4Power.



Automated punching and bending
The punching and bending machines are linked to a shared database for multi-machine operation.

Find out more:
www.rittal.com/automation

List of Model Numbers

Index

M

N

O

P

R

S

T

V

W

Rittal – The System.

Faster – better – everywhere.

- Enclosures
- Power Distribution
- Climate Control
- IT Infrastructure
- Software & Services

You can find the contact details of all
Rittal companies throughout the world here.

www.rittal.com/contact

XWW00180EN2411

ENCLOSURES | POWER DISTRIBUTION | CLIMATE CONTROL | IT INFRASTRUCTURE | SOFTWARE & SERVICES

FRIEDHELM LOH GROUP