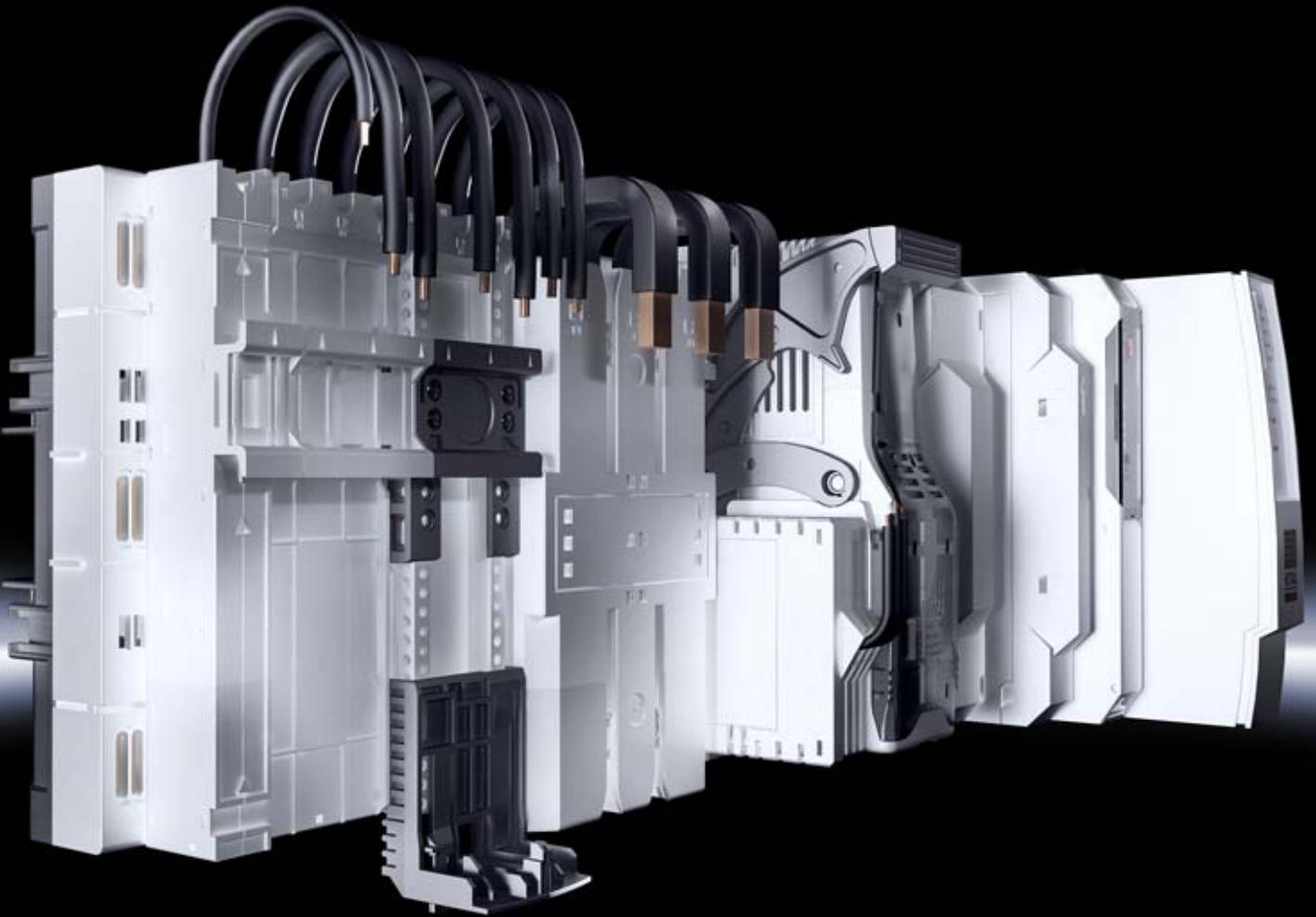


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# RiLine Compact

The smart power distribution system



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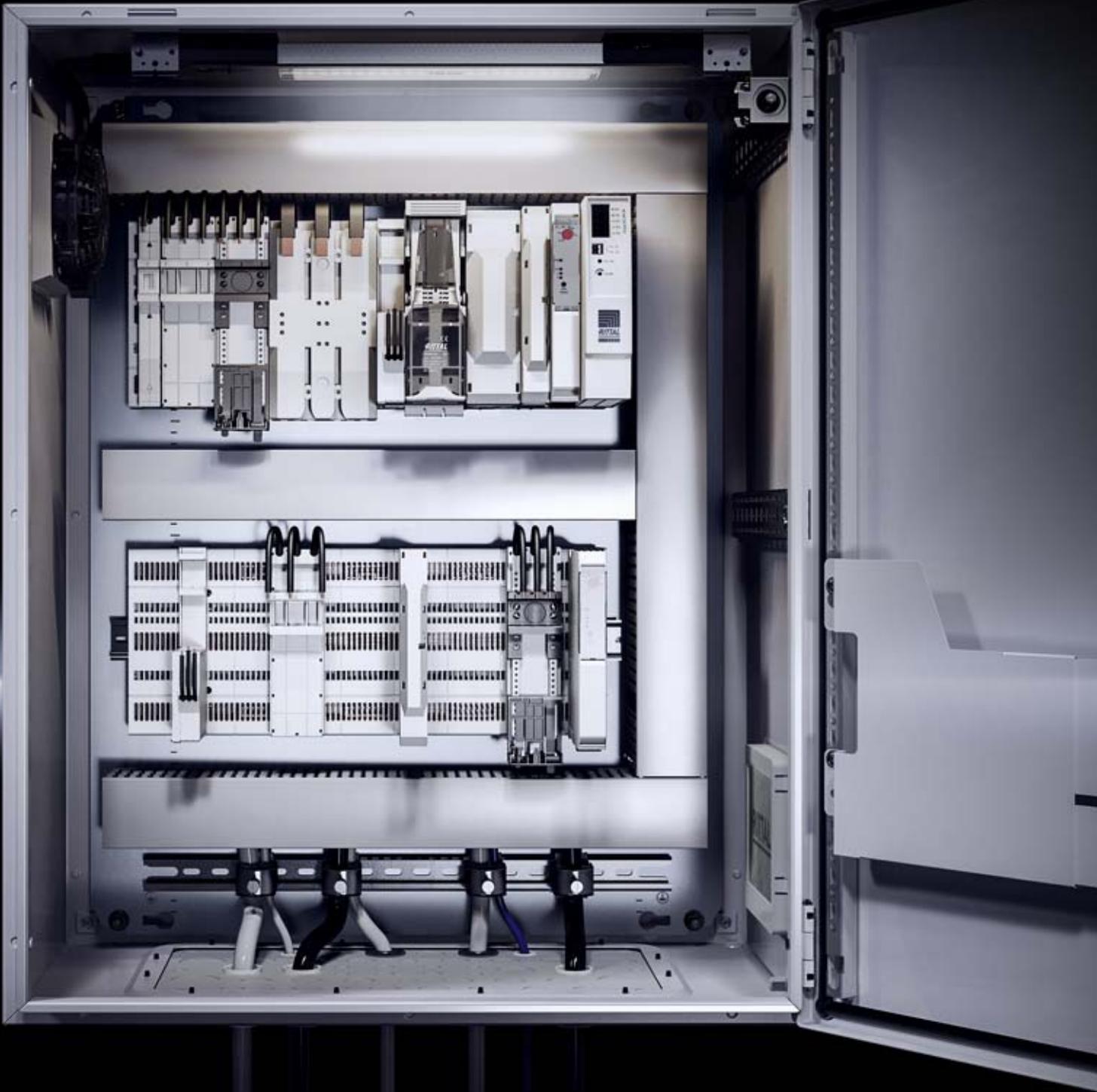
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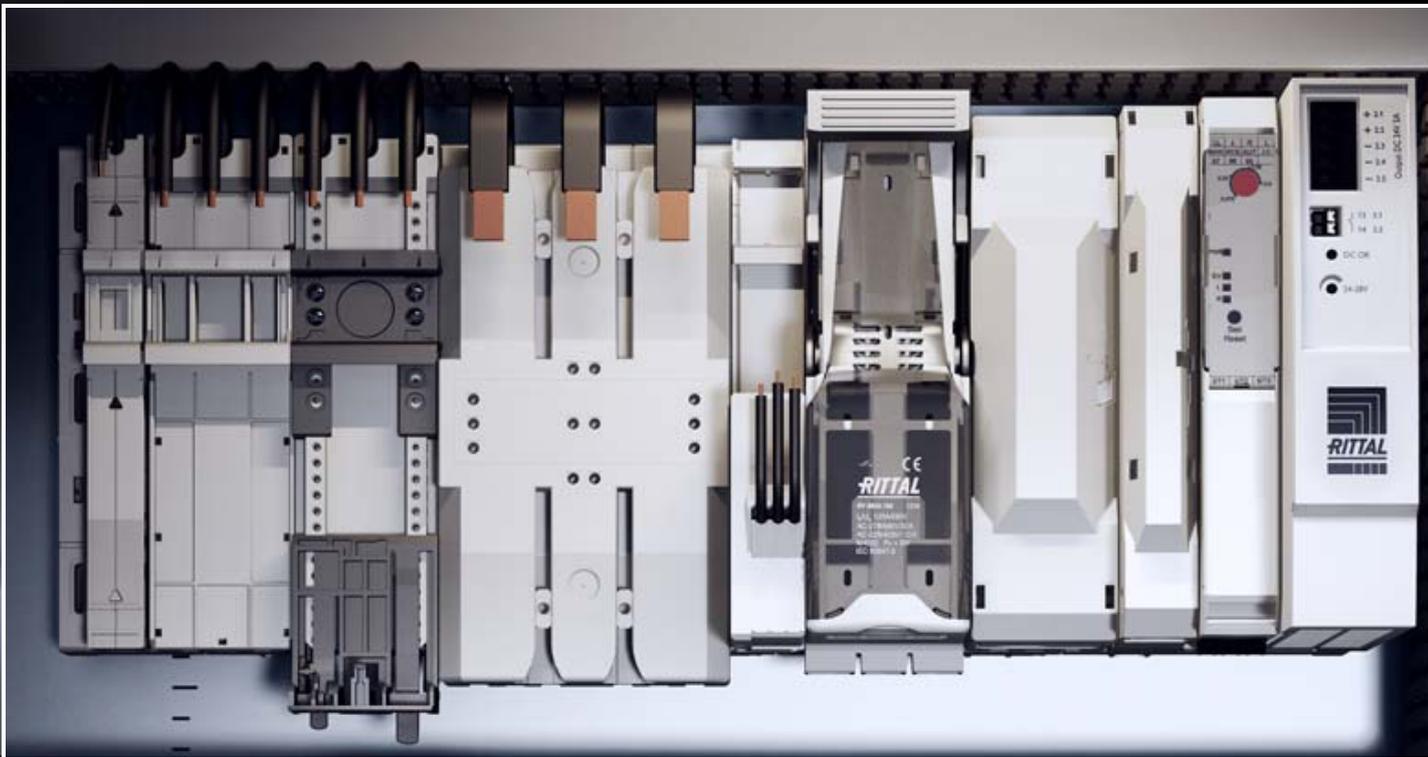
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# Power distribution in a confined space

Rittal are the leading suppliers of reliable power distribution and backup systems for controlgear. RiLine Compact is the tested system solution for compact power distribution in enclosures and small control cabinets. The 4.5 mm pitch pattern available throughout means that no valuable space is wasted on busbar supports etc.

Different unit types are often used which would require conventional wiring. With RiLine Compact, a variety of different designs can be used safely and with no loss of space – both standardised and standard-compliant.



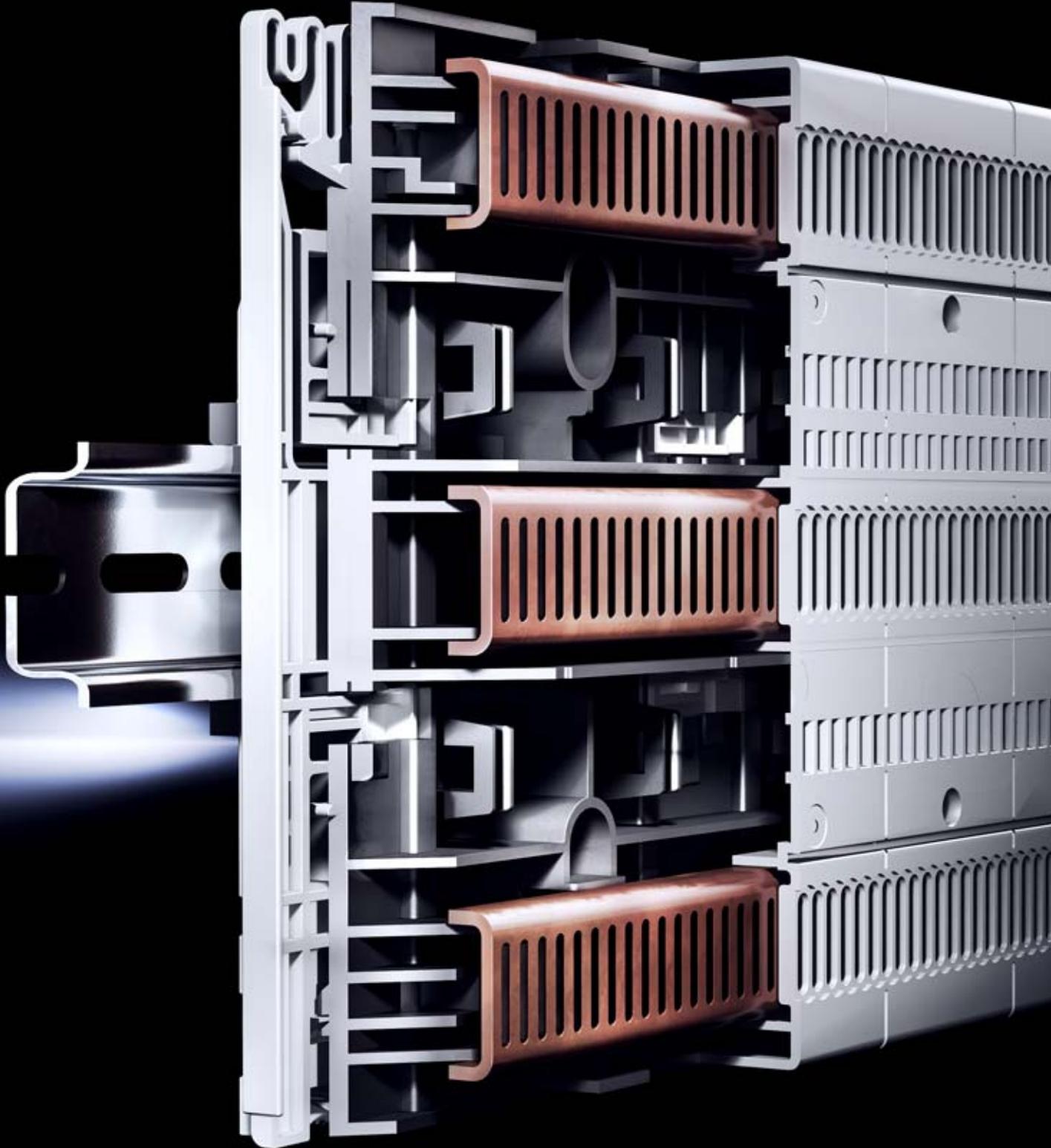
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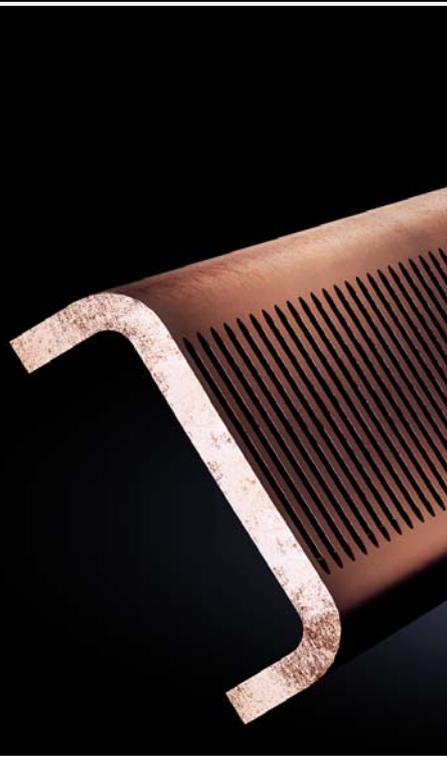
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# Tool-free assembly made easy

The RiLine Compact system is based on a board with integral circuit board conductors and a contact pitch pattern throughout. The board and all components are simply top-mounted; no tools required.

Securing the components simultaneously ensures a secure electrical connection to the all-round shock-hazard-protected board. The contact pitch pattern of the RiLine Compact system allows the assemblies to be positioned wherever they are required.



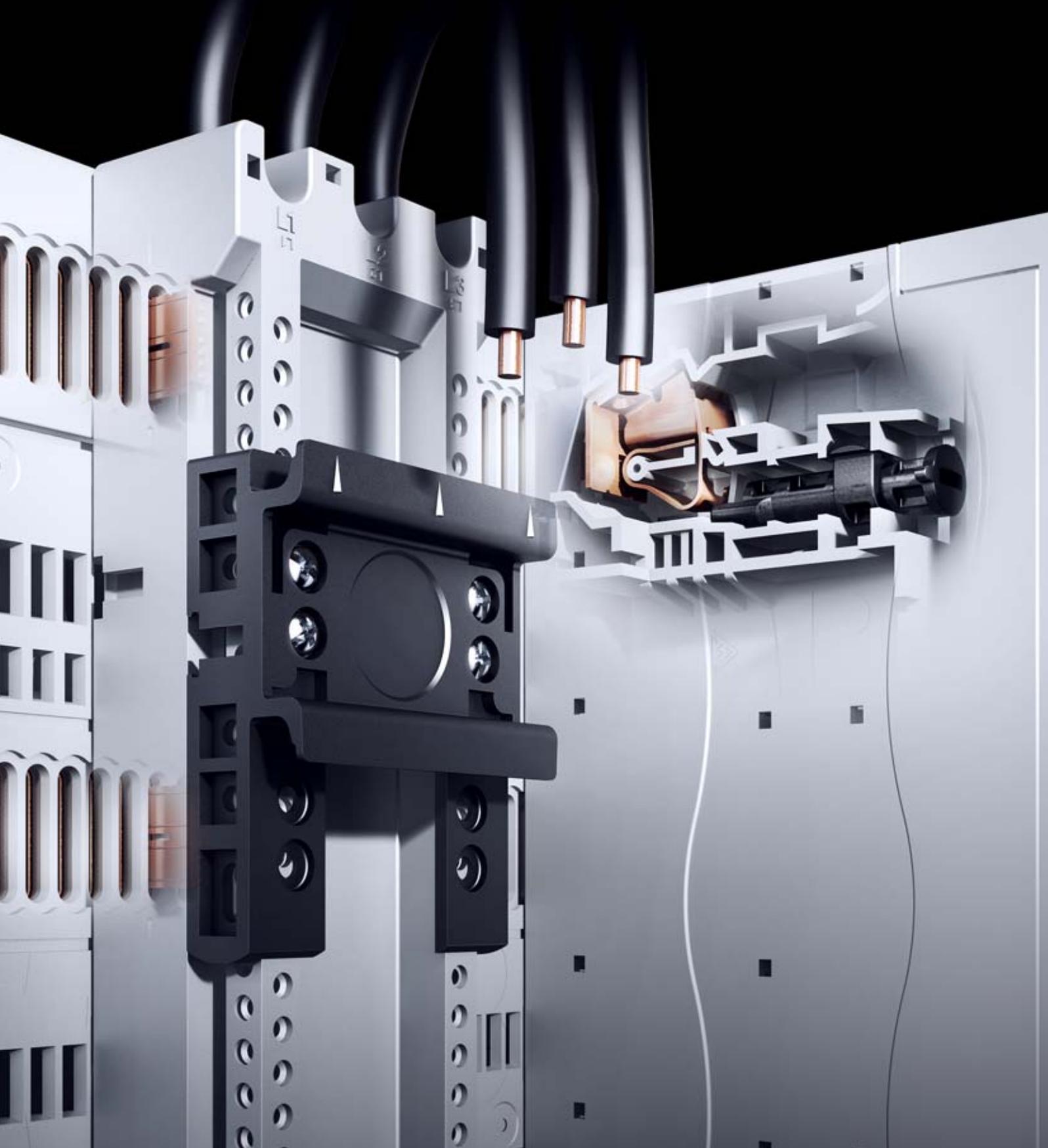
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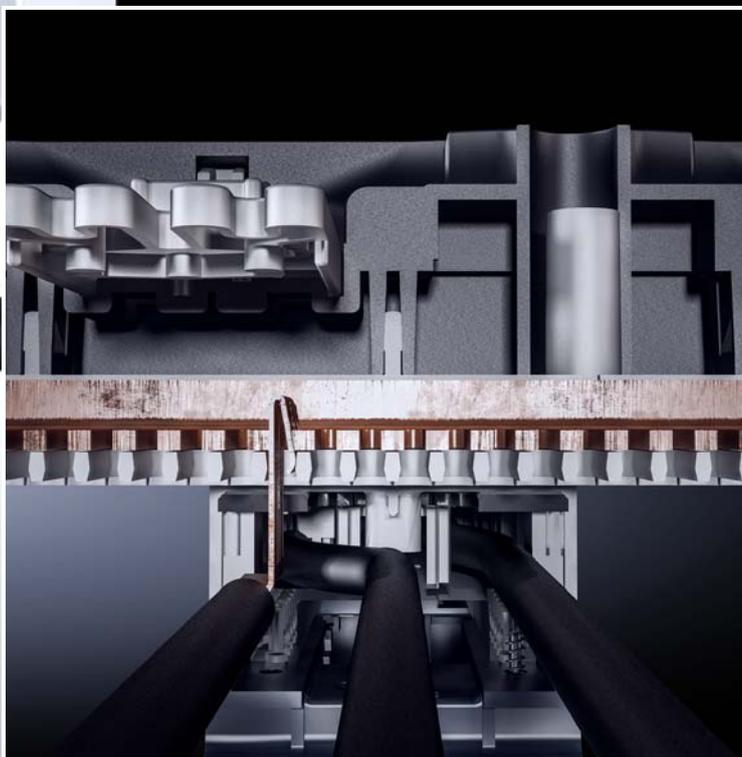
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CLIMATE CONTROL

# Safe adaptor connection

The RiLine Compact adaptors support fast connection of cables and devices. What's more, the 80 A infeed adaptor offers screw-free connection with a contact point that is completely maintenance-free.

The component adaptors with preassembled connection cables satisfy the special requirements of standard IEC 61 439, for safe, space-saving assembly of switchgear and protective gear.



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# Space-saving installation of motor controllers

RiLine Compact motor controllers are used to control motor drives. They have an exceptionally space-saving design and require 50% less space than conventionally wired motor control units. They are suitable for use with direct and reversing starter combinations.

The hybrid technology creates a low-loss motor controller which is particularly gentle on the switching contacts; this in turn helps to extend the service life.



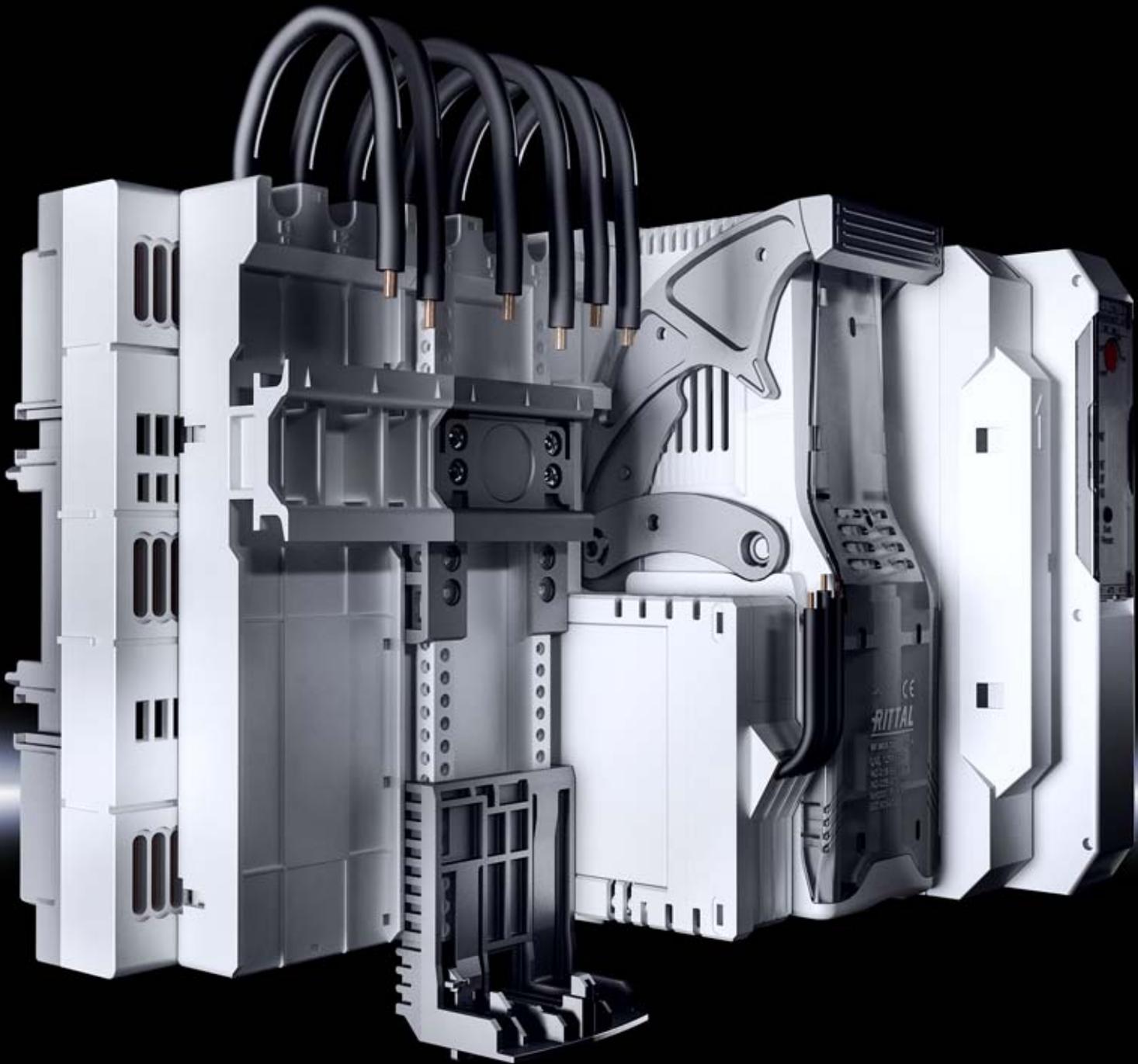
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# Guaranteed global use

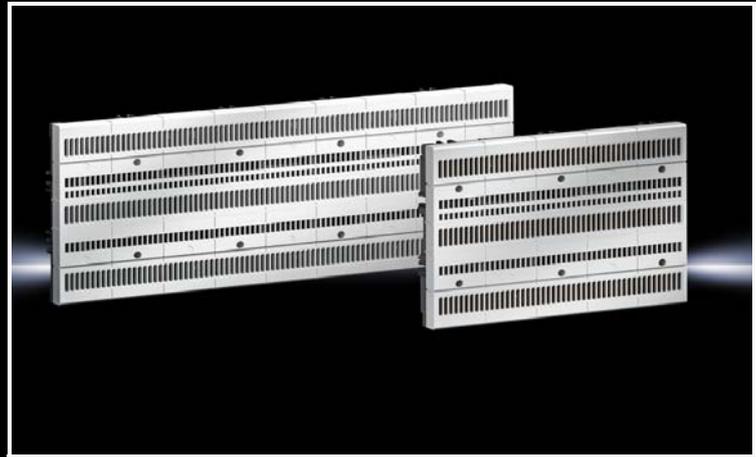
- Approvals to IEC and UL
- Fire protection corresponding to UL 94-V0
- Use of equipment from any manufacturer



### RiLine Compact Board

- 225 mm and 405 mm versions
- With 5 or 9 horizontal pitches (HP)  
@ 45 mm
- All-round contact hazard protection
- Up to 125 A

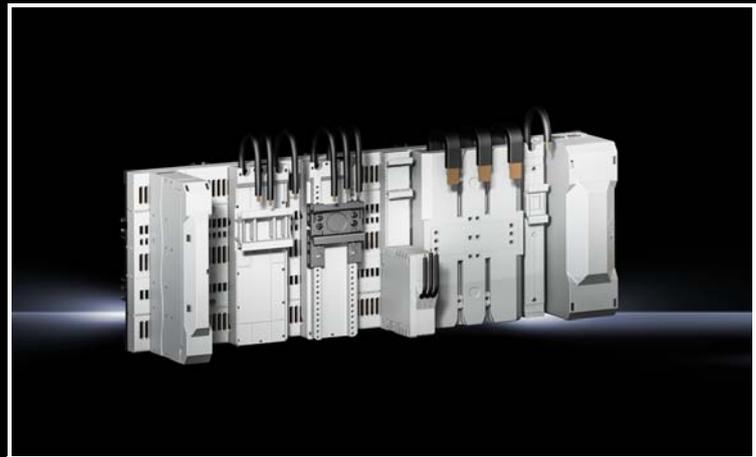
From page 12



### Adaptor

- Busbar connection adaptor with  
spring terminal block
- Basic and comfort adaptor
- New: Build width 22.5 mm with  
integral fuse holder

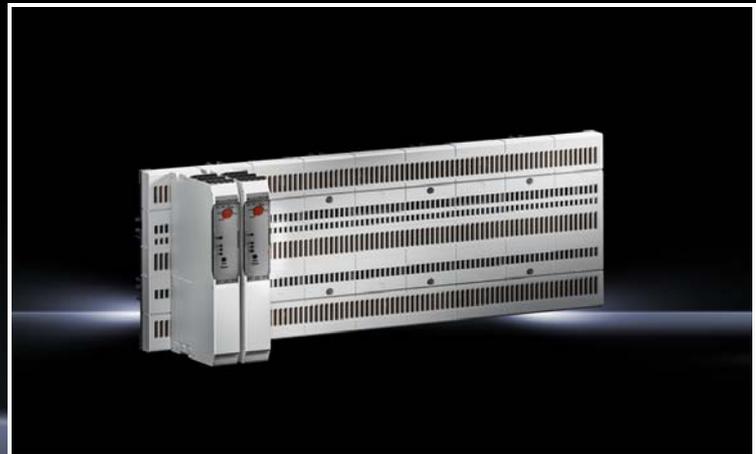
From page 13



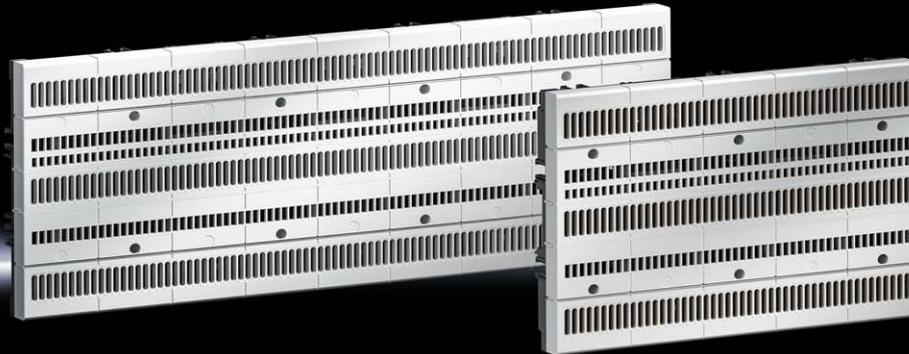
### Motor controller

- For motor and reversing starters  
up to 4 kW
- With electronic overload protection

From page 19



# Board



Connection adaptor Page 13 Component adaptor Page 14 NH fuse-switch disconnecter Page 18 Motor controller/power pack Page 19/20

### Functions:

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

### Material:

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

### Colour:

- RAL 7035

### Protection category IP to IEC 60 529:

- IP 20

### Supply includes:

- Integral busbars

### Note:

- The technical data may vary for UL applications

### Standards:

- UL 508
- IEC 61 439

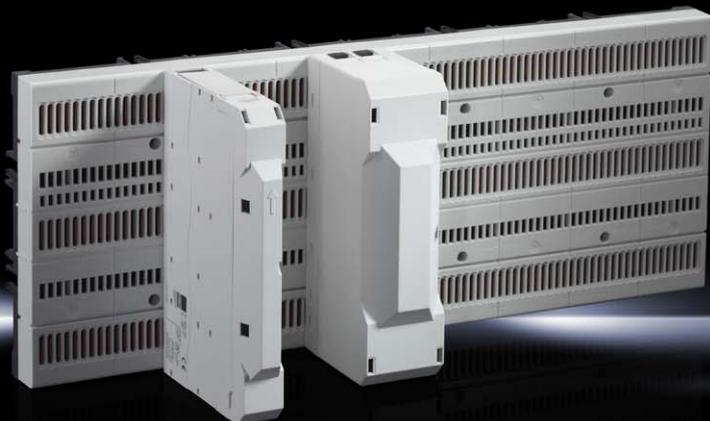
### Approvals:

- UL

## RiLine Compact, 3-pole

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

# Connection adaptor



**Board** Page 12 **Component adaptor** Page 14 **NH fuse-switch disconnecter** Page 18 **Motor controller/power pack** Page 19/20

**Functions:**

- To supply power to the board

**Material:**

- Polyamide
- Fire protection corresponding to UL 94-V0

**Colour:**

- RAL 7035

**Note:**

- The technical data may vary for UL applications

**Approvals:**

- UL

## Rated current max. 80 – 125 A, 3-pole

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

# Component adaptor



**Board** Page 12 **Connection adaptor** Page 13 **NH fuse-switch disconnecter** Page 18 **Motor controller/power pack** Page 19/20

**Functions:**

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

**Material:**

- Polyamide
- Fire protection corresponding to UL 94-V0

**Colour:**

- RAL 7035

**Note:**

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

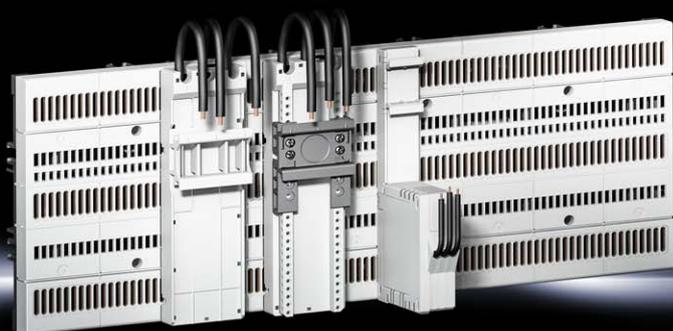
**Approvals:**

- UL

## Rated current max. 16 – 63 A, 1-pole

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

# Component adaptor



Board Page 12 Connection adaptor Page 13 NH fuse-switch disconnecter Page 18 Motor controller/power pack Page 19/20

#### Functions:

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

#### Material:

- Polyamide
- Fire protection corresponding to UL 94-V0

#### Colour:

- RAL 7035

#### Note:

- The technical data may vary for UL applications

#### Approvals:

- UL

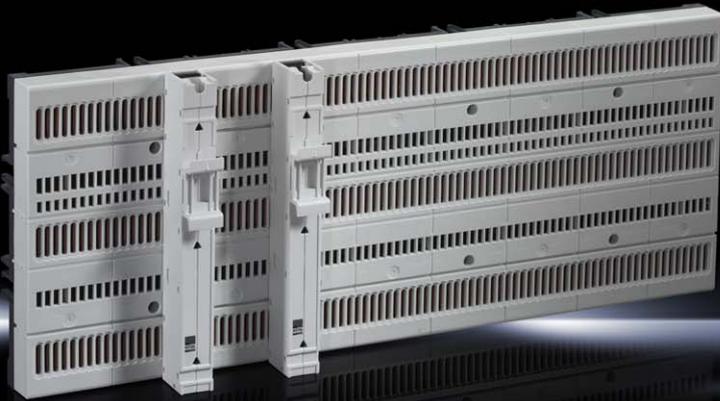
## Rated current max. 16 – 45 A, 3-pole

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

#### Accessories

Support rail	10 pc(s).	-	-	-	9635.600	9635.600	9635.600	9635.600	21
Positioner		-	-	-	see page	see page	see page	see page	21
Extension module	8 pc(s).	-	-	-	9635.630	9635.630	9635.630	9635.630	21
Extension kit	4 pc(s).	-	-	-	9635.640	9635.640	9635.640	9635.640	22

# Component support



**Board** Page 12 **Connection adaptor** Page 13 **NH fuse-switch disconnecter** Page 18 **Motor controller/power pack** Page 19/20

**Functions:**

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

**Material:**

- Polyamide
- Fire protection corresponding to UL 94-V0

**Colour:**

- RAL 7035

**Approvals:**

- UL

## Without contact system

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

# Circuit-breaker component adaptor



Board Page 12 Connection adaptor Page 13 NH fuse-switch disconnecter Page 18 Motor controller/power pack Page 19/20

## Functions:

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

## Material:

- Polyamide
- Fire protection corresponding to UL 94-V0

## Colour:

- RAL 7035

## Note:

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

## Approvals:

- UL

## Rated current max. 160 A, 3-pole

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

# NH fuse-switch disconnecter



**Board** Page 12 **Connection adaptor** Page 13 **Component adaptor** Page 14 **Motor controller/power pack** Page 19/20

## Functions:

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

## Material:

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

## Colour:

- RAL 7035

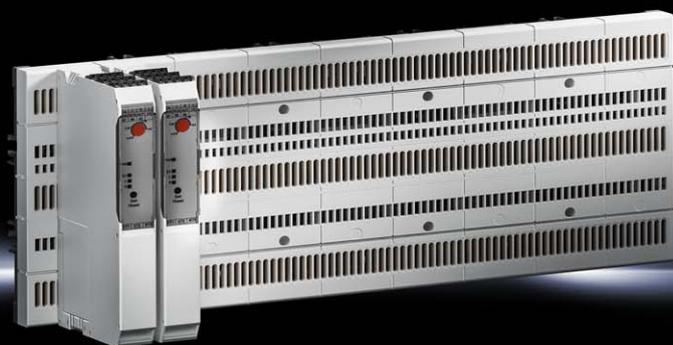
## Basis of test:

- IEC/DIN EN 60 947-3

## Size 000

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

# Motor controller



**Board** Page 12 **Connection adaptor** Page 12 **Component adaptor** Page 14 **NH fuse-switch disconnecter** Page 18

## Functions:

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

## Material:

- Polyamide
- Fire protection corresponding to UL 94-V0

## Colour:

- RAL 7035

## Note:

- The technical data may vary for UL applications

## Rated current max. 0.6 – 9 A, 3-pole

Rated current max. A	Packs of	0.6	2.4	3	9	9	Page
Rated operating voltage V, ~, Hz		500 (AC), 3~, 50/60					
Heat loss (max.) W		2.8	5.5	5.5	12	12	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	
Fuse size mm		10 x 38					
Connection of round conductors mm <sup>2</sup>		0.14 - 2.5	0.14 - 2.5	0.14 - 2.5	0.14 - 2.5	0.14 - 2.5	
Safety integrity level (SIL) to IEC 61 508 - safe switch-off		-	-	3	-	3	
Safety integrity level (SIL) to IEC 61 508 - motor protection		-	-	2	-	2	
Adjustable current monitoring A		0.075 - 6	0.18 - 2.4	0.18 - 3	1.5 - 9	1.5 - 9	
Width mm		22.5	22.5	22.5	22.5	22.5	
Height mm		160	160	160	160	160	
Depth mm		114	114	114	114	114	
Approvals		UL	UL	-	UL	-	
<b>Model No.</b>	1 pc(s).	<b>9635.400</b>	<b>9635.410</b>	<b>9635.415</b>	<b>9635.420</b>	<b>9635.425</b>	

# Power pack



**Board** Page 12 **Connection adaptor** Page 12 **Component adaptor** Page 14 **NH fuse-switch disconnecter** Page 18

## Functions:

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

## Material:

- Plastic

## Colour:

- RAL 7035

## Protection category IP to

### IEC 60 529:

- IP 20

## Protection class:

- II (in a closed enclosure)

## Standards:

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

## Directives:

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

## Approvals:

- UL

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

# RiLine Compact accessories

## for component adaptors

### Support rail

#### for Comfort component adaptor

For attaching equipment and reverser combinations.

**Material:**

- Polyamide
- Fire protection corresponding to UL 94-V0

**Colour:**

- RAL 9005

Width mm	Height mm	Packs of	Model No.
45	56	10 pc(s).	<b>9635.600</b>



### Positioner

#### for Comfort component adaptor

For attaching equipment and reverser combinations.

**Material:**

- Polyamide
- Fire protection corresponding to UL 94-V0

**Colour:**

- RAL 9005

Width mm	Height mm	For switch-gear make (model)	Packs of	Model No.
45	65	Siemens (S00, S0)	10 pc(s).	<b>9635.610</b>
45	47.5	Eaton (PKZ/PKE size 0)	10 pc(s).	<b>9635.620</b>



### Extension module

#### for Comfort component adaptor

For attaching direct starters of varying lengths.

**Material:**

- Polyamide
- Fire protection corresponding to UL 94-V0

**Colour:**

- RAL 7035

Width mm	Height mm	Packs of	Model No.
45	40	8 pc(s).	<b>9635.630</b>



# RiLine Compact accessories

## for component adaptors



### Extension kit

#### for Comfort component adaptor

For attaching reverser combinations with 90 mm width.

#### Material:

- Polyamide
- Fire protection corresponding to UL 94-V0

#### Colour:

- RAL 7035

#### Supply includes:

- 1 set consisting of
  - 1 expansion module,
  - 2 extension modules,
  - 3 connection pins
- 1 set  $\hat{=}$  1 pc(s).

Width mm	Height mm	Packs of	Model No.
90	80	4 pc(s).	<b>9635.640</b>

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