

Ri4Power

Modular system

- For low-voltage switchgear with design verification to IEC 61 439-1/-2
- For control systems and power distributors
- Structured system solution for switchgear with Form separation 1-4b
- Simple, installation-friendly configuration of the system

Busbar systems up to 5500 A

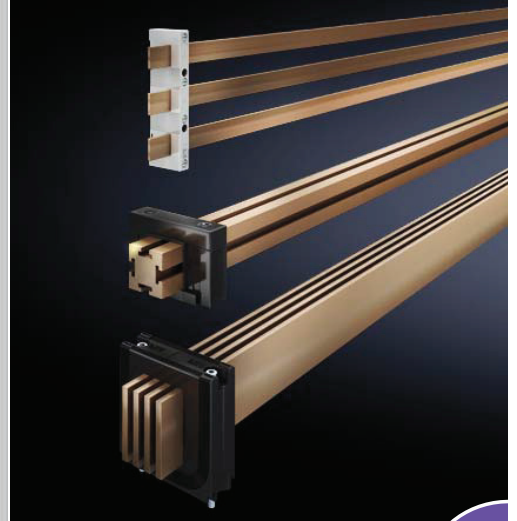
- RiLine – The compact busbar system up to 1600 A, see page 265
- Maxi-PLS – The assembly-friendly system, see page 354
- Flat-PLS – The flat busbar system for discerning requirements, see page 357
- Tested PE conductor system, see page 766
- High short-circuit withstand current ratings of up to 100 kA for 1 sec./220 kA

Modular enclosure system

- Based on enclosure platform TS 8, see page 89
- Flexible, modular front design, see page 662
- Roof plates to suit most requirements, see page 693
- Modular compartment configuration for internal compartmentalisation up to Form 4b, see page 367
- Internal cover plates, contact hazard protection for NH fuse-switch-disconnector sections Form 2b, see page 366
- Accessories for Ri4Power, see page 374

Simple planning

- **Rittal Power Engineering with update function**
see page 377
- Configuration of low-voltage switchgear with design verification
- Simple, fast assembly with automatically generated assembly plan
- Generation of parts lists with graphical output



Busbar systems (100/185/150 mm)



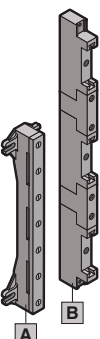

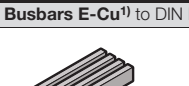

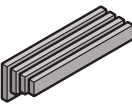
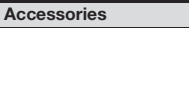
NH slimline fuse-switch disconnectors Page 301/336 Accessories Page 374

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

Colour:
 – RAL 7035

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


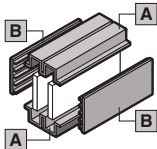
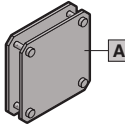
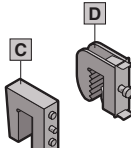
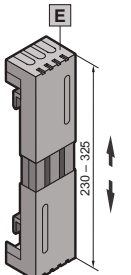
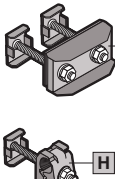
Busbar systems 1250 A (100 mm), 1600 A (185 mm), 2500 A (150 mm), 3000 A (150 mm)

Busbar support, 3-pole		Packs of	Model No.				Page
			A 1250 A	B 1600 A	C 2500 A	C 3000 A	
			22 x 320 x 70	24 x 515 x 51	30 x 420 x 160	30 x 420 x 170	
Width x height x depth mm			60 x 10	80 x 10	2 x 80 x 10	2 x 100 x 10	
Max. bar accommodation mm							
Inserts for							
a) Reduces the cross-section to mm			30 x 10 to 50 x 10	50/60 x 10	–	–	
b) Reduces the bar width in 10 mm increments			–	–	■	■	
Bar centre distance mm			100	185	150	150	
Packs of			4 pc(s)	2 pc(s)	2 pc(s)	2 pc(s)	
			3073.000	3052.000	3055.000	3057.000	
Accessories							
		30 x 10 mm	24 pc(s).	3074.000	–	–	–
		40 x 10 mm	24 pc(s).	3075.000	–	–	–
		50 x 10 mm	24 pc(s).	3076.000	3074.000	–	–
		60 x 10 mm	24 pc(s).	–	3075.000	–	–
		Spacing piece for reducing the bar width in 10 mm increments	12 pc(s).	–	–	3056.000	3056.000
		System attachment for rear section Material: Sheet steel Surface finish: Zinc-plated Supply includes: Assembly parts	2 pc(s).	–	9674.100	–	–
Busbars E-Cu¹⁾ to DIN EN 13 601, length 2400 mm							
		Dimensions mm					
		30 x 10	3 pc(s).	3586.005	–	–	–
		40 x 10	3 pc(s).	3587.000	–	–	–
		50 x 10	2 pc(s).	3588.005	3588.005	–	–
		60 x 10	2 pc(s).	3589.005	3589.005	3589.005	3589.005
		80 x 10	1 pc(s).	–	3590.005	3590.005	3590.005
		100 x 10	1 pc(s).	–	–	–	3590.015
Accessories							
		30 x 10 mm	4 pc(s).	9661.350	–	–	–
		40 x 10 mm	4 pc(s).	9661.050	–	–	–
		80 x 10 mm	4 pc(s).	–	9661.150	–	–
		Longitudinal connector for 2 x bar width x 10 mm	1 pc(s).	–	–	9676.621 ²⁾	9676.621 ²⁾

¹⁾ For other busbar lengths, see page 766

²⁾ The required screw must be ordered separately according to the bar width, see page 359

Busbar systems (100/185/150 mm)

Contact hazard protection		Packs of	Model No.				Page	
			1250 A	1600 A	2500 A	3000 A		
End cover for busbar support		10 pc(s).	3083.000	-	-	-		
	Busbar cover section, length 1 m for E-Cu	30 x 10 mm	10 pc(s).	3092.000	-	-	-	308
		40 x 10 to 60 x 10 mm	10 pc(s).	3085.000	3085.000	-	-	
	Edge cover section for bar systems with 10 mm space between the strands, length 1 m	for 1 busbar per conductor	10 pc(s).	9676.041	9676.041	-	-	358
		for 2 busbars per conductor	10 pc(s).	-	-	9676.052	9676.052	
	Side cover section for bar systems, to match the edge cover sections, length 1 m	For busbar width						
		60 mm	10 pc(s).	9676.056	9676.056	9676.056	9676.056	
	80 mm	10 pc(s).	9676.058	9676.058	9676.058	9676.058		
	100 mm	10 pc(s).	9676.059	9676.059	9676.059	9676.059		
Connection system, see page 313 (system accessories)								
[A] Plate clamps for connecting laminated copper bars; no drilling required.								
	For busbars mm	Clamping area for laminated copper bars mm						314
	30 x 10	34 x 10	3 pc(s).	3554.000	-	-	-	
	40 x 10	34 x 10	3 pc(s).	3559.000	-	-	-	
	50 x 10	34 x 10	3 pc(s).	3560.000	3560.000	-	-	
	50 x 10	54 x 10	3 pc(s).	3562.000	3562.000	-	-	
	60 x 10	34 x 10	3 pc(s).	3561.000	3561.000	-	-	
	60 x 10	54 x 10	3 pc(s).	3563.000	3563.000	-	-	
80 x 10	65 x 10	3 pc(s).	-	3460.500	-	-		
[B] Push-in conductor connection clamps for 10 mm bar thickness								
	Connection of round conductors mm ²	Clamping area for laminated copper bars mm						313
	0.5 – 6	-	10 pc(s).	3455.505	3455.505	3455.505	3455.505	
	1.5 – 16	-	10 pc(s).	3456.505	3456.505	3456.505	3456.505	
Conductor connection clamps for 10 mm bar thickness								
	Connection of round conductors mm ²	Clamping area for laminated copper bars mm						313
	[C] 1 – 4	-	15 pc(s).	3555.000	3555.000	3555.000	3555.000	
	1 – 4	-	15 pc(s).	3455.500	3455.500	3455.500	3455.500	
	2.5 – 16	8 x 8	15 pc(s).	3456.500	3456.500	-	-	
	[D] 16 – 50	10.5 x 11	15 pc(s).	3457.500	3457.500	-	-	
	35 – 70	16.5 x 15	15 pc(s).	3458.500	3458.500	-	-	
70 – 185	22.5 x 20	15 pc(s).	3459.500	3459.500	-	-		
[E] System covers for conductor connection clamps and plate clamps								
Width x depth mm								314
50 x 80		4 pc(s).	3086.000	-	-	-		
100 x 80		4 pc(s).	3087.000	-	-	-		
100 x 110		4 pc(s).	3090.000	-	-	-		
200 x 80		4 pc(s).	3088.000	-	-	-		
200 x 110		4 pc(s).	3091.000	-	-	-		
[F] Inserted screw nuts M12 , self-holding nuts with knurled ring for mounting NH slimline fuse-switch disconnectors								
For drilled holes in busbars Ø 14.5 mm.		30 pc(s).	3591.060	3591.060	-	-	767	
[G] Connection plates for laminated copper bars								
	For connecting laminated copper bars up to 2 x 10 x 100 x 1.0 mm to a busbar system with 2 bars per conductor.	For laminated copper bars up to						359
		2 x 10 x 32 x 1 mm	1 pc(s).	-	-	9676.747 ¹⁾	9676.747 ¹⁾	
		2 x 10 x 63 x 1 mm	1 pc(s).	-	-	9676.748 ¹⁾	9676.748 ¹⁾	
		2 x 10 x 100 x 1 mm	1 pc(s).	-	-	9676.749 ¹⁾	9676.749 ¹⁾	
[H] Direct connection terminals								
For the direct connection of round conductors 95 – 300 mm ² (single-wire and multi-wire)		1 pc(s).	-	-	9676.730 ¹⁾	9676.730 ¹⁾	359	

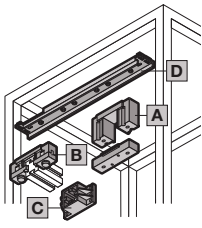
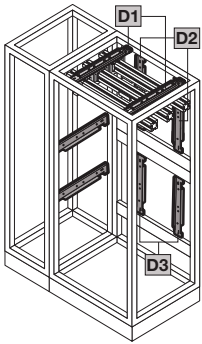
¹⁾The required screw connection must be ordered separately according to the busbar width, see page 359

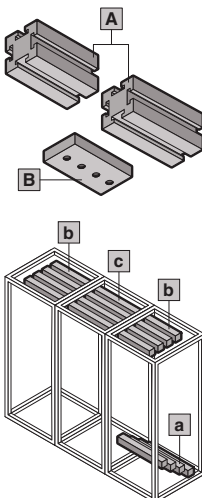
Busbar systems Maxi-PLS

System components

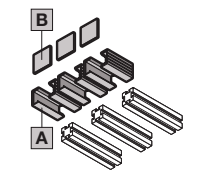
Note:

- Busbars for PE/PEN combinations, see page 766/767.

Supports and attachment in the TS enclosure				P. of	Maxi-PLS 1600/2000		Maxi-PLS 3200	
					Model No.		Model No.	
					3-pole	4-pole	3-pole	4-pole
	A Busbar support Material: Polyamide (PA 6.6)			1 pc(s).	9649.000		9659.000	
	B Busbar support, suitable for top mounting Material: Polyamide (PA 6.6)			1 pc(s).	9649.160		9659.160	
	C End support Material: Polyamide (PA 6.6)			2 pc(s).	9649.010		9659.010	
	D System attachment for installation in the busbar support. Material: Stainless steel							
	For use	For enclosure depth mm	Bar centre distance mm	P. of	Model No.		Model No.	
	D1 In the roof/base section directly above/below coupling switch	600	100	2 pc(s).	9640.080		-	
			150	2 pc(s).	-		9650.100	
		800	150	2 pc(s).	-		9650.080	
	D2 Rear section top/bottom	-	150	2 pc(s).	9640.098		9650.098	
	D3 Rear section, centre (185 mm)	-	185	2 pc(s).	3-pole	4-pole	3-pole	4-pole
					9640.150	-	9650.150	-

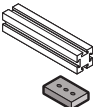
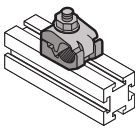
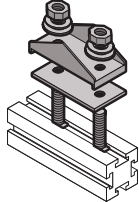
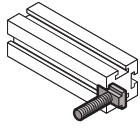



A Maxi-PLS busbars E-Cu					Maxi-PLS 1600	Maxi-PLS 2000	Maxi-PLS 3200
					Model No.		Model No.
	For enclosure width mm	For use ¹⁾	Length mm	P. of	Model No.		Model No.
	600	a	491	1 pc(s).	9640.206	9640.201	9650.201
	600	b	525	1 pc(s).	9640.216	9640.211	9650.211
	600	c	599	1 pc(s).	9640.226	9640.221	9650.221
	800	a	691	1 pc(s).	9640.236	9640.231	9650.231
	800	b	725	1 pc(s).	9640.246	9640.241	9650.241
	800	c	799	1 pc(s).	9640.256	9640.251	9650.251
	1000	a	891	1 pc(s).	9640.266	9640.261	9650.261
	1000	b	925	1 pc(s).	9640.276	9640.271	9650.271
	1000	c	999	1 pc(s).	9640.286	9640.281	9650.281
	1200	a	1091	1 pc(s).	9640.296	9640.291	9650.291
	1200	b	1125	1 pc(s).	9640.306	9640.301	9650.301
	1200	c	1199	1 pc(s).	9640.316	9640.311	9650.311
	-	-	2400	3 pc(s).	9640.365	9640.360	9650.360
-	-	2400	4 pc(s).	-	9649.360	9659.360	
B Longitudinal connector E-Cu for simple baying connection of Maxi-PLS busbars. Incl. sliding blocks, bolts, washers and nuts.				1 pc(s).	9640.191	9640.191	9650.191

¹⁾ a = Cable connection system with end support
 b = Left-hand or right-hand end enclosure in a switchgear installation
 c = Bayed enclosure with sections bayed on the left and right

Contact hazard protection		P. of	Model No.	
	A Cover section for clip-on mounting onto the Maxi-PLS busbars, length 1000 mm. Material: Hard PVC	5 pc(s).	9640.050	
	B End cover for clip-on mounting onto the end surface of Maxi-PLS busbars. Material: Polyamide (PA 6.6)	2 pc(s).	9649.060	

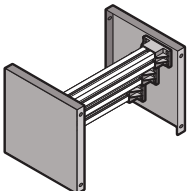
Busbar systems Maxi-PLS

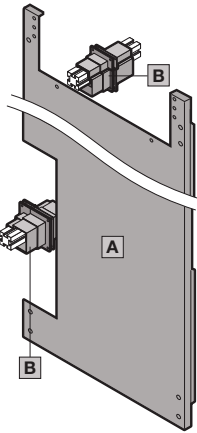
System components

Connection system			P. of	Maxi-PLS 1600/2000 Model No.	Maxi-PLS 3200 Model No.	
	Contact maker E-Cu for contacting the connection brackets to the Maxi-PLS busbars. Incl. sliding blocks.					
	Width mm	60	1 pc(s).	9640.171	9650.171	
100		1 pc(s).	9640.181	9650.181		
	Connection clamp for the connection of round conductors (Cu/AL) 95 to 300 mm ² (single-wire and multi-wire). Incl. assembly parts.					
			1 pc(s).	9640.325	9650.325	
	Connection plates for the connection of laminated flat copper bars. Including assembly parts.					
	Maximum clamping area	2 x 10 x 32 x 1	3 pc(s).	9640.330	9650.330	
		2 x 10 x 63 x 1	3 pc(s).	9640.340	9650.340	
2 x 10 x 100 x 1		3 pc(s).	9640.350	-		
	Terminal stud for connecting cables with ring terminals. Incl. sliding blocks.			Length 30 mm	Length 32 mm	
	Thread	M12	3 pc(s).	9640.370	9650.370	
		M16	3 pc(s).	9640.380	9650.380	
	Sliding blocks for sliding into the Maxi-PLS busbar section at the sides.					
	Thread	M8	Length 20 mm	15 pc(s).	9640.970	-
		M10	Length 25 mm	15 pc(s).	9640.980	9650.980
M12		Length 35 mm	15 pc(s).	-	9650.990	
	Sliding nuts for retrospectively inserting into the Maxi-PLS busbar section.					
	Thread	M6		15 pc(s).	9640.900	9650.900
		M8		15 pc(s).	9640.910	-
		M10		3 pc(s).	-	9650.905
		M10		15 pc(s).	9640.920	9650.910
M12			15 pc(s).	-	9650.920	
	Threaded bolts for individual connection options. Including nuts, plain washers, spring lock washers (M6 and M8 only) or washers (M10 and M12 only). Note: Sliding blocks or sliding nuts are additionally required for attachment.					
	Thread	M6	Length 35 mm	6 pc(s).	9640.930	9640.930
		M8	Length 35 mm	6 pc(s).	9640.940	9640.940
		M10	Length 35 mm	8 pc(s).	9676.971	9676.971
		M10	Length 45 mm	8 pc(s).	9676.972	9676.972
		M10	Length 55 mm	8 pc(s).	9676.973	9676.973
		M10	Length 70 mm	8 pc(s).	9676.976	9676.976
		M10	Length 80 mm	8 pc(s).	9676.977	9676.977
		M12	Length 40 mm	8 pc(s).	-	9676.981
		M12	Length 50 mm	8 pc(s).	-	9676.982
		M12	Length 60 mm	8 pc(s).	-	9676.983
		M12	Length 70 mm	8 pc(s).	-	9676.986
M12		Length 80 mm	8 pc(s).	-	9676.987	

Busbar systems Maxi-PLS

System components

Connection system	P. of	Model No.
 <p>Compact infeed for Maxi-PLS busbar 1600/2000 For individual use as a 3-pole cable connection bar system. Direct mounting on the mounting plate or punched section without mounting flange.</p> <p>Supply includes: 6 end supports, 2 support plates for end supports, 1 PS mounting rail 23 x 23 mm (length 495 mm), mounting accessories</p>	1 pc(s).	9660.980

Shielding	Maxi-PLS 1600/2000			Maxi-PLS 3200																																																																																		
	Model No.			Model No.																																																																																		
 <p>A Divider panel for TS enclosures. For side shielding from neighbouring panels. Including assembly parts.</p> <p>Maxi-PLS busbars in the roof section</p> <table border="1"> <thead> <tr> <th>For enclosure depth mm</th> <th>For enclosure height mm</th> <th>P. of</th> <th>1600/2000</th> <th>3200</th> </tr> </thead> <tbody> <tr> <td>600</td> <td>2000</td> <td>1 pc(s).</td> <td>9660.620</td> <td>9660.620</td> </tr> </tbody> </table> <p>Maxi-PLS busbars in the rear section</p> <table border="1"> <thead> <tr> <th>For enclosure depth mm</th> <th>For enclosure height mm</th> <th>P. of</th> <th>1600/2000</th> <th>3200</th> </tr> </thead> <tbody> <tr> <td>600</td> <td>2000</td> <td>1 pc(s).</td> <td>9660.610</td> <td>9660.610</td> </tr> </tbody> </table> <p>B Busbar gland The busbar gland may also be used as a cover for longitudinal connectors. Including assembly parts.</p> <table border="1"> <thead> <tr> <th colspan="2">Use with longitudinal connector</th> <th rowspan="2">Packs required</th> <th rowspan="2">P. of</th> <th colspan="2">1600/2000</th> <th colspan="2">3200</th> </tr> <tr> <th>no</th> <th>yes</th> <th>3-pole</th> <th>4-pole</th> <th>3-pole</th> <th>4-pole</th> </tr> </thead> <tbody> <tr> <td>■</td> <td>-</td> <td>6</td> <td>1 pc(s).</td> <td>9640.600</td> <td>-</td> <td>9650.600</td> <td>-</td> </tr> <tr> <td>■</td> <td>-</td> <td>8</td> <td>1 pc(s).</td> <td>-</td> <td>9640.600</td> <td>-</td> <td>9650.600</td> </tr> <tr> <td>-</td> <td>■</td> <td>3</td> <td>1</td> <td>9640.610</td> <td>-</td> <td>9650.610</td> <td>-</td> </tr> <tr> <td>-</td> <td>■</td> <td>3</td> <td>1</td> <td>+ 9640.600</td> <td>-</td> <td>+ 9650.600</td> <td>-</td> </tr> <tr> <td>-</td> <td>■</td> <td>4</td> <td>1</td> <td>-</td> <td>9640.610</td> <td>-</td> <td>9650.610</td> </tr> <tr> <td>-</td> <td>■</td> <td>4</td> <td>1</td> <td>-</td> <td>+ 9640.600</td> <td>-</td> <td>+ 9650.600</td> </tr> </tbody> </table>	For enclosure depth mm	For enclosure height mm	P. of	1600/2000	3200	600	2000	1 pc(s).	9660.620	9660.620	For enclosure depth mm	For enclosure height mm	P. of	1600/2000	3200	600	2000	1 pc(s).	9660.610	9660.610	Use with longitudinal connector		Packs required	P. of	1600/2000		3200		no	yes	3-pole	4-pole	3-pole	4-pole	■	-	6	1 pc(s).	9640.600	-	9650.600	-	■	-	8	1 pc(s).	-	9640.600	-	9650.600	-	■	3	1	9640.610	-	9650.610	-	-	■	3	1	+ 9640.600	-	+ 9650.600	-	-	■	4	1	-	9640.610	-	9650.610	-	■	4	1	-	+ 9640.600	-	+ 9650.600				
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	600	2000	1 pc(s).	9660.620	9660.620																																																																																	
	For enclosure depth mm	For enclosure height mm	P. of	1600/2000	3200																																																																																	
	600	2000	1 pc(s).	9660.610	9660.610																																																																																	
	Use with longitudinal connector		Packs required	P. of	1600/2000		3200																																																																															
	no	yes			3-pole	4-pole	3-pole	4-pole																																																																														
	■	-	6	1 pc(s).	9640.600	-	9650.600	-																																																																														
	■	-	8	1 pc(s).	-	9640.600	-	9650.600																																																																														
	-	■	3	1	9640.610	-	9650.610	-																																																																														
-	■	3	1	+ 9640.600	-	+ 9650.600	-																																																																															
-	■	4	1	-	9640.610	-	9650.610																																																																															
-	■	4	1	-	+ 9640.600	-	+ 9650.600																																																																															

Accessories



Power Engineering

see page 377

Flat-PLS busbar systems

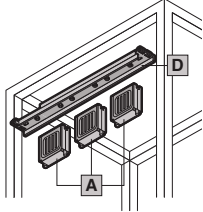
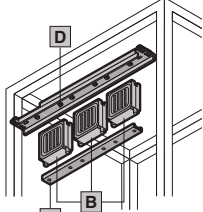
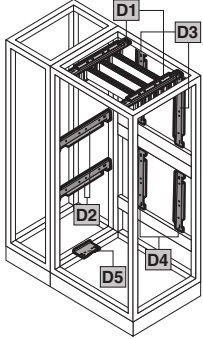
System components

Busbar system Flat-PLS 60/ Flat-PLS 100, for flat copper bars

For the configuration of busbar systems from flat copper bars.

For mounting on a system attachment or directly on the mounting plate.

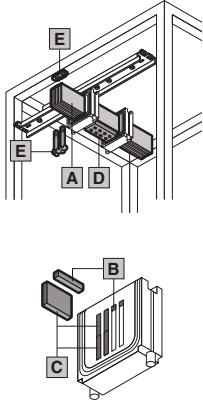
Max. permissible tolerance of bar width (60/100 mm) ± 0.3 mm, bar thickness (10 mm) ± 0.15 mm.

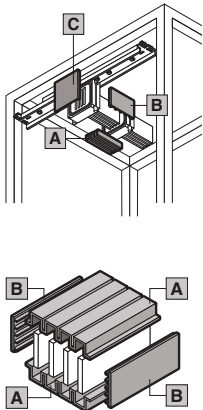
Supports and attachment in the TS enclosure				Flat-PLS 60		Flat-PLS 100				
				Model No.		Model No.				
	A Busbar support Material: Polyamide (PA 6.6)									
	System	For busbars up to mm ¹⁾		P. of						
	Flat-PLS 60	4 x 60 x 10		1 pc(s).	9676.002	-				
	Flat-PLS 100	4 x 100 x 10		1 pc(s).	-	9676.004				
	B Busbar support for stabiliser bar Material: Polyamide (PA 6.6)									
	System	For busbars up to mm ¹⁾		P. of						
	Flat-PLS 60	4 x 60 x 10		1 pc(s).	9676.020	-				
	Flat-PLS 100	4 x 100 x 10		1 pc(s).	-	9676.021				
	D System attachment for installation in the busbar support. Material: Stainless steel									
	For use	For enclosure depth mm	Bar centre distance mm			P. of	3-pole	4-pole	3-pole	4-pole
			120	165	185					
	D1 In the roof/base section directly above/below coupling switch	600	■	-	-	2 pc(s).	9674.162	9674.162	-	-
			-	■	-	2 pc(s).	-	-	9674.164	-
	800	■	-	-	2 pc(s).	9674.182	9674.182	-	-	
		-	■	-	2 pc(s).	-	-	9674.184	9674.184	
	D2 Vertical coupling set	600	■	-	-	2 pc(s).	9674.172	9674.172	-	-
			-	■	-	2 pc(s).	-	-	9674.174	-
	800	■	-	-	2 pc(s).	9674.192	9674.192	-	-	
		-	■	-	2 pc(s).	-	-	9674.194	9674.194	
	D3 Rear section, top/bottom	-	■	-	-	2 pc(s).	9674.122	9674.122	-	-
			-	■	-	2 pc(s).	-	-	9674.124	9674.124
D4 Rear section, centre (185 mm)	-	-	-	■	2 pc(s).	9674.152	-	-	-	
		-	-	■	2 pc(s).	-	-	9674.154	-	
D5 Single-pole assembly, for mounting on the TS frame	-	-	-	-	2 pc(s).	9674.102	9674.102	9674.104	9674.104	
C Busbar stabiliser bars Material: Stainless steel										
For busbar supports	Bar centre distance mm	System layout			P. of	3-pole	4-pole	3-pole	4-pole	
9676.020	120	3-/4-pole			2 pc(s).	9676.022	9676.023	-	-	
	185	3-pole			2 pc(s).	9676.026	-	-	-	
9676.021	165	3-/4-pole			2 pc(s).	-	-	9676.024	9676.025	
	185	3-pole			2 pc(s).	-	-	9676.027	-	

¹⁾ For a bar width of < 60 mm for Flat-PLS 60 or < 100 mm for Flat-PLS 100, the empty gaps in the support should be filled with spacers. When using only 1, 2 or 3 bars, the vacant bar slots should be closed using the filler pieces.

Flat-PLS busbar systems

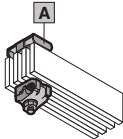
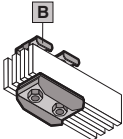
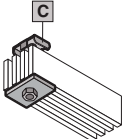
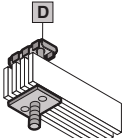
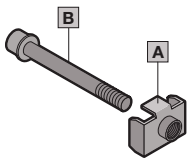
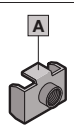
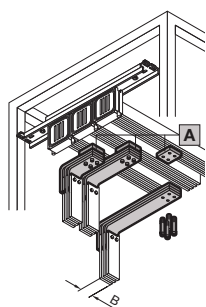
System components

Busbars and accessories for supports				Flat-PLS 60	Flat-PLS 100
				Model No.	Model No.
	A Busbars E-Cu to DIN EN 13 601. Length: 2400 mm/bar				
	Dimensions mm		P. of		
	40 x 10		3 pc(s).	3587.000	-
	50 x 10		2 pc(s).	3588.005	-
	60 x 10		2 pc(s).	3589.005	-
	80 x 10		1 pc(s).	-	3590.005
	100 x 10		1 pc(s).	-	3590.015
	B Spacer – For a bar width of < 60/100 mm the spacer should be used. Material Polyamide (PA 6.6)				
	E-Cu dimensions mm		Required number of spacers per chamber	P. of	
	40 x 10		2 pc(s).	16 pc(s).	9676.007
50 x 10		1 pc(s).			
80 x 10		2 pc(s).			
C Filler piece – When using only 1, 2 or 3 bars, the vacant bar slots should be closed using the filler pieces. Material: Polyamide (PA 6.6)					
Flat-PLS 60		2 per free bar slot	16 pc(s).	9676.008	
Flat-PLS 100		3 per free bar slot			
D Longitudinal connector E-Cu for connecting Flat-PLS busbar systems, no drilling required.					
No. of strands per conductor	For busbar width mm	Screw	P. of		
2	40 – 100	1)	1 pc(s).	9676.621	
3 or 4	40 – 100	1)	1 pc(s).	9676.641	
1) Must be ordered separately according to the busbar width B (length = B + 40 mm, screw connections, see page 359).					
E Busbar claws for Flat-PLS					
For busbar width up to mm		Screw	P. of		
2 x B x 10		1)	1 pc(s).	9676.017	
4 x B x 10		1)	1 pc(s).	9676.019	
1) Must be ordered separately according to the busbar width B (length = B + 20 mm, screw connections, see page 359).					

Contact hazard protection					Flat-PLS 60	Flat-PLS 100	
					Model No.	Model No.	
	Cover sections for Flat-PLS Material: Hard PVC						
	For system	No. of bars per conductor	For busbar width mm	Length mm	P. of		
	A Edge cover section for bar systems with no space between the strands	1	-	1000	10 pc(s).	9676.041	9676.041
	A Edge cover section for bar systems with 10 mm space between the strands	2	-	1000	10 pc(s).	9676.052	9676.052
		4	-	1000	10 pc(s).	9676.054	9676.054
	B Side cover section for bar systems, to match the edge cover sections	-	60	1000	10 pc(s).	9676.056	9676.056
		-	80	1000	10 pc(s).	9676.058	9676.058
		-	100	1000	10 pc(s).	9676.059	9676.059
	C End covers for busbar supports Flat-PLS Material: Polyamide (PA 6.6)						
	For Flat-PLS 60 and Flat-PLS 100				P. of		
				2 pc(s).	9676.006	9676.006	

Flat-PLS busbar systems

System components

Connection system	Flat-PLS 60			Flat-PLS 100		
	Model No.			Model No.		
	A Direct connection terminal for Flat-PLS For the direct connection of round conductors.					
	For round conductors	Screw	P. of			
	95 – 300 mm ² re/m	1) ¹⁾	1 pc(s).	9676.730		9676.730
	1) Must be ordered separately according to the busbar width B (length = B + 60 mm, screw connections, see page 359).					
	B Connection plates for laminated copper bars , including assembly parts (excluding screws)					
	For busbar width mm	Screw	P. of			
	2 x 10 x 32 x 1	1) ¹⁾	1 pc(s).	9676.747		9676.747
	2 x 10 x 63 x 1	1) ¹⁾	1 pc(s).	9676.748		9676.748
	C Connection plates with bolts M10 , including assembly parts (excluding screws)					
Connection bolts	Screw	P. of				
M10	1) ¹⁾	1 pc(s).	9676.710		9676.710	
	D Connection plates with bolts M12 , including assembly parts (excluding screws)					
Connection bolts	Screw	Bolt length mm	P. of			
M12	1) ¹⁾	30	1 pc(s).	9676.700	9676.700	
1) Must be ordered separately according to the busbar width B (length = B + 20 mm, screw connections, see page 359).						
	A Claw with threaded insert M10					
	Threaded insert			P. of		
	M10			8 pc(s).	9676.832	9676.832
	B Screw connections					
	Screw design			P. of		
	M10 x 60			8 pc(s).	9676.806	9676.806
	M10 x 70			8 pc(s).	9676.807	9676.807
	M10 x 80			8 pc(s).	9676.808	9676.808
	M10 x 90			8 pc(s).	9676.809	9676.809
	M10 x 100			8 pc(s).	9676.810	9676.810
	M10 x 110			8 pc(s).	9676.811	9676.811
	M10 x 120			8 pc(s).	9676.812	9676.812
	M10 x 130			8 pc(s).	9676.813	9676.813
	M10 x 140			8 pc(s).	9676.814	9676.814
M10 x 150			8 pc(s).	9676.815	9676.815	
M10 x 160			8 pc(s).	9676.816	9676.816	
M10 x 170			8 pc(s).	9676.817	9676.817	
M10 x 190			8 pc(s).	9676.819	9676.819	
	A Claw with threaded insert M8 for NH slimline fuse-switch disconnectors, size 00 For mounting NH slimline fuse-switch disconnectors size 00 on Flat-PLS bar systems with 185 mm centre-to-centre spacing. Note: M8 screws (zinc-plated and passivated, strength 8.8, length: busbar width + 20 mm) are additionally required. Screws are not included with the supply.					
	Threaded insert			P. of		
M8			3 pc(s).	9676.831	9676.831	
	A Contact makers E-Cu for contacting the connection brackets to the Flat-PLS busbars.					
	For busbar width B mm	Screw	No. of strands per conductor	P. of		
	60	1) ¹⁾	2	1 pc(s).	9676.526	9676.526
	60	1) ¹⁾	3 or 4	1 pc(s).	9676.546	9676.546
	80	1) ¹⁾	2	1 pc(s).	9676.528	9676.528
	80	1) ¹⁾	3 or 4	1 pc(s).	9676.548	9676.548
	100	1) ¹⁾	2	1 pc(s).	9676.520	9676.520
100	1) ¹⁾	3 or 4	1 pc(s).	9676.540	9676.540	

1) Must be ordered separately according to the busbar width B (screw connections, see page 359).
 Screw length = (no. of strands x 10 mm) + bar width of main busbar + 40 mm.
 No. of screws per bracket:
 – for 2 strands per conductor of the main busbar system: 2 pc(s).
 – for 3/4 strands per conductor of the main busbar system: 4 pc(s).

Connection components for Maxi-PLS/Flat-PLS

For air circuit-breakers and busbar connections

For connecting air circuit-breakers (ACB) to Maxi-PLS/Flat-PLS busbar systems in TS enclosures. Alternatively, for connecting main and distribution busbar systems and for connecting horizontal and vertical main busbar systems.

Please include the design code of the specification given below in the order text for your connector kit.

We recommend the **Rittal Power Engineering software 3020.500 from Version 6.1** for easier configuration of the connector kits and connection brackets, see page 377.

Material:

- E-Cu

Note:

- Please quote the complete design code on all enquiries and orders.
- For configuration with the Rittal Power Engineering software, 2 check numbers are additionally output with a hyphen.



Also required:

- M10/M12 screw connections, see page 359
- Terminal studs Maxi-PLS, see page 355
- Screw connections Flat-PLS, see page 359
- Copper spacer rolls, page 374

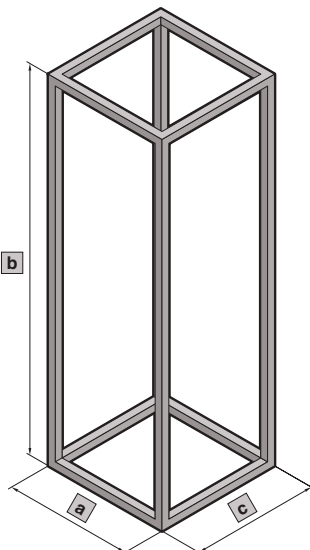
Design code

Model No.	Enclosure	Busbar system, bottom			Air circuit-breaker							Busbar system, top		Compartment height of air circuit-breaker	Distribution busbars, type and number of poles	Distribution busbar system, in front of or behind mounting plate	Busbar configuration	Code length	
		a	b	c	d	e	f	g	h	i	j	k	l						m
9676.910	Connector kit for ACB, top																		14
9676.912	Connector kit for ACB, bottom																		14
9676.200	Connection bracket above ACB																		14
9676.210	Connection bracket below ACB																		14
9675.100	T-connector kit																		9
9675.840	Angular connector kit																		8
9674.481	Fuse-switch-disconnector section, connection bracket																		8

Leave grey sections blank

Enclosure

								Selection					
Width mm													
a	2	200	4	400	6	600	8	800	0	1000	1	1200	<input type="checkbox"/>
Height mm													
b	0	2000	2	2200							<input type="checkbox"/>		
Depth mm													
c	6	600	8	800							<input type="checkbox"/>		



Connection components for Maxi-PLS/Flat-PLS

For air circuit-breakers and busbar connections

Busbar system, bottom

Busbar type				Selection		
d	Maxi-PLS	1600	3-pole	A	<input type="checkbox"/>	
			4-pole	B		
		2000	3-pole	C		
			4-pole	D		
		3200	3-pole	E		
			4-pole	F		
	Flat-PLS	60	3-pole	I		
			4-pole	J		
		100	3-pole	M		
			4-pole	N		
		RiLine (only for T-connector kit)	Cu 30 x 5/10 mm	3-pole		Q
				4-pole		R
PLS 1600	3-pole		S			
	4-pole		T			
No system available				X		

Busbar system configuration			Selection	
e	in the base section		6	<input type="checkbox"/>
	in the lower rear section		7	
	as cable connection system		8	
	directly underneath the air circuit-breaker		9	
No system available			0	

Air circuit-breaker

	f Brand	ABB	A	<input type="checkbox"/>
		ABB (Emax2)	B	
		Eaton	E	
		GE	G	
		Mitsubishi	J	
		Schneider Electric	M	
		Siemens	S	
		Terasaki	T	
		Various	V	
		1/none	1	
g Size	2	2	<input type="checkbox"/>	
	3	3		
	4	4		
h Rated max.	630 A	A	<input type="checkbox"/>	
	800 A	B		
	1000 A	C		
	1250 A	D		
	1600 A	E		
	2000 A	F		
	2500 A	G		
	3200 A	H		
	4000 A ²⁾	I		
	5000 A ²⁾	J		
i No. of poles/ version	Static installation	3-pole	3	<input type="checkbox"/>
		4-pole	4	
		3-pole with non-switched N	5	
	Rack-mounted	3-pole	6	
		4-pole	8	
		3-pole with non-switched N	7	
j Position	Behind the door HT	H	<input type="checkbox"/>	
	In front of the door (in door cut-out) VT	V		
k Compartment height underneath the circuit-breaker	0 mm	0	<input type="checkbox"/>	
	150 mm	1		
	200 mm	2		
	250 mm	3		
	300 mm	4		
	400 mm	5		
	600 mm ¹⁾	6		
	800 mm	7		
	1000 mm	8		
n Compartment height of air circuit-breaker	600 mm ¹⁾	6	<input type="checkbox"/>	
	800 mm	7		
	1000 mm	8		

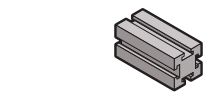

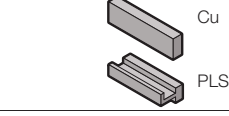
²⁾ Not available for all brands.

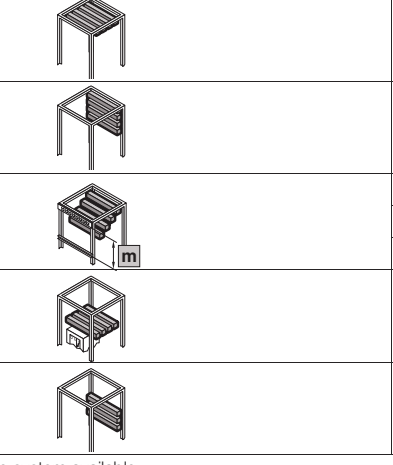

¹⁾ Standard height in Form 1
For Form 1 please select a **6**

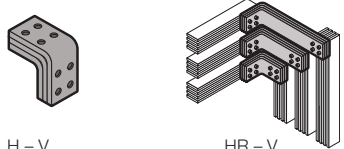
Connection components for Maxi-PLS/Flat-PLS

For air circuit-breakers and busbar connections

Busbar system, top

Busbar type				Selection	
I	 <p>Maxi-PLS</p>	1600	3-pole	A	<input type="checkbox"/>
			4-pole	B	
		2000	3-pole	C	
			4-pole	D	
		3200	3-pole	E	
			4-pole	F	
	 <p>Flat-PLS</p>	60	3-pole	I	
			4-pole	J	
		100	3-pole	M	
			4-pole	N	
 <p>RiLine (only for T-connector kit)</p>	Cu 30 x 5/10 mm	3-pole	Q		
		4-pole	R		
	PLS 1600	3-pole	S		
		4-pole	T		
No system available				X	

Busbar system configuration				Selection	
m		in the roof section		1	<input type="checkbox"/>
		in the top rear section		2	
		as cable connection system 600 mm		3	
		as cable connection system 800 mm		8	
		as cable connection system 1000 mm		9	
		directly above the air circuit-breaker		4	
in rear centre section, Form 1				5	
No system available				0	
o	Distribution busbar system	Distribution busbar system Type and number of poles	RiLine Cu 30 x 5/10 mm 3-pole	Q	<input type="checkbox"/>
			RiLine Cu 30 x 5/10 mm 4-pole	R	
			RiLine PLS 1600 3-pole	S	
			RiLine PLS 1600 4-pole	T	
			Distribution busbar fuse-switch disconnecter section 3-pole	E	
			Distribution busbar fuse-switch disconnecter section 4-pole	F	
p	 <p>in front of mounting plate behind mounting plate</p>	Distribution busbar system in front of or behind mounting plate	In front of mounting plate (indoor)	1	<input type="checkbox"/>
			Behind mounting plate	2	

Bar configuration, busbar dimensions				Selection	
q	 <p>H - V HR - V</p> <p>H = Horizontal V = Vertical HR = Horizontal in the rear section, behind one another</p>	Maxi PLS 1600/2000	H - V	A	<input type="checkbox"/>
		Maxi PLS 1600/2000	HR - V	B	
		Maxi-PLS 3200	H - V	C	
		Maxi-PLS 3200	HR - V	D	
		up to 2 x 40 x 10	H - V	E	
		up to 2 x 60 x 10	H - V	F	
		up to 4 x 60 x 10	H - V	G	
		up to 4 x 40 x 10	H - V	H	
		up to 2 x 100 x 10	H - V	I	
		up to 4 x 80 x 10	H - V	J	
		up to 4 x 100 x 10	H - V	K	
		up to 2 x 60 x 10	HR - V	L	
		up to 4 x 60 x 10	HR - V	M	
		up to 2 x 100 x 10	HR - V	N	
		up to 4 x 100 x 10	HR - V	O	

Connection components for Maxi-PLS/Flat-PLS

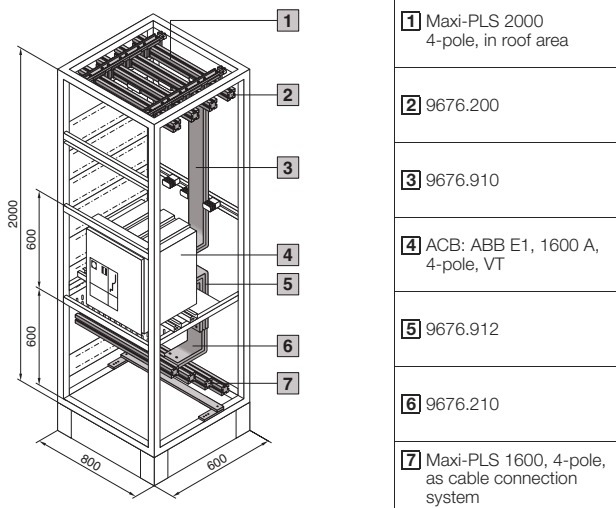
For air circuit-breakers and busbar connections

Sample design code

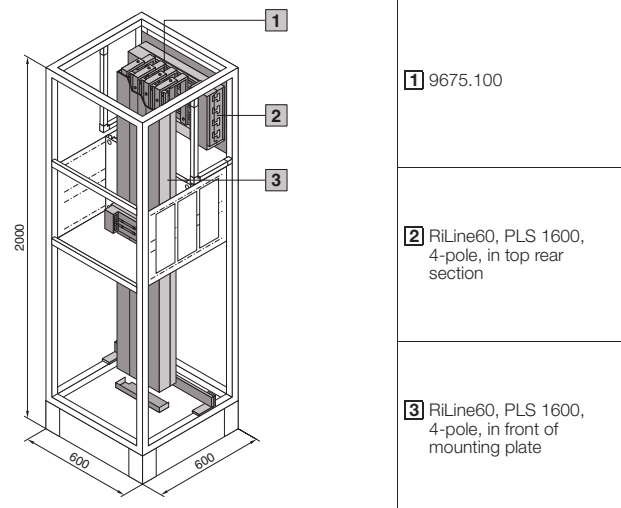
Model No.		Enclosure			Busbar system, bottom		Air circuit-breaker						Busbar system, top		Compartment height of air circuit-breaker	Distribution busbars Type and number of poles	Distribution busbar system, in front of or behind mounting plate	Busbar configuration	Code length
		a	b	c	d	e	f	g	h	i	j	k	l	m					
9676.910	Connector kit for ACB, top	8	0	6	B	8	A	1	E	4	V	6	D	1	6				14
9676.912	Connector kit for ACB, bottom	8	0	6	B	8	A	1	E	4	V	6	D	1	6				14
9676.200	Connection bracket above ACB	8	0	6	B	8	A	1	E	4	V	6	D	1	6				14
9676.210	Connection bracket below ACB	8	0	6	B	8	A	1	E	4	V	6	D	1	6				14
9675.100	T-connector kit	6	0	6	X	0										T	1		9
9675.840	Angular connector kit	2	0	6	B	9										X	0	A	8
9674.481	Fuse-switch-disconnector section, connection bracket	1	0	6	X	0										J	1	F	8

Leave grey sections blank

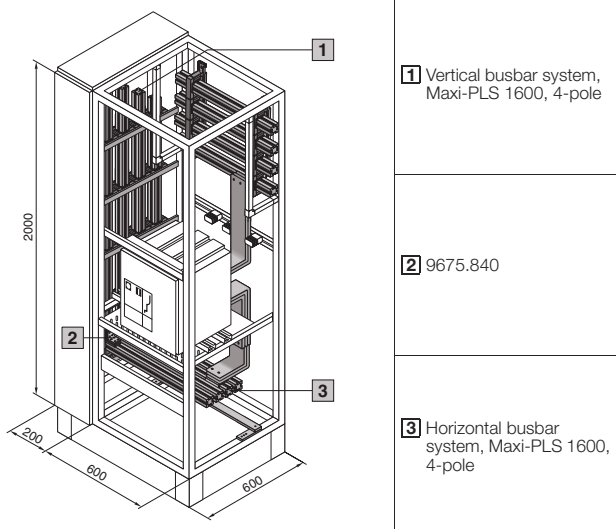
Example of 9676.910, 9676.912, 9676.200, 9676.210
Design code: 806B8A1E4V6D16



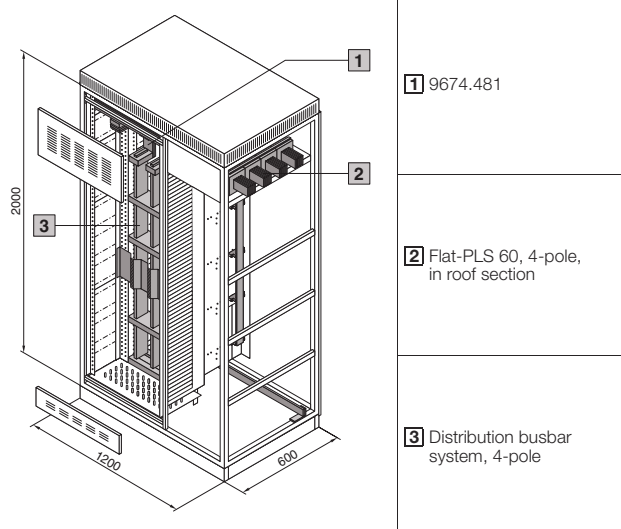
Example of 9675.100
Design code: 606X0T2T1



Example of 9675.840
Design code: 206B9X0A



Example of 9674.481
Design code: 106X0J1F



Connector kits for Maxi-PLS/Flat-PLS

System accessories



Screw connections

for connection brackets

For connecting connection brackets and a connector kit. May be used for 3- and 4-pole connector kits.

Material:

- Steel screws, zinc-plated, passivated

Supply includes:

- 8 nuts and 16 washers.

Note:

- For a bar width of 120 mm, 2 packs are required per connector kit.

For system	Screw design mm	For connection brackets width mm	No. of bars per phase	Packs of	Model No.
Maxi-PLS	M10 x 40	60 80	1	8 pc(s).	9676.966
Maxi-PLS	M10 x 60	60 80	2	8 pc(s).	9676.967
Maxi-PLS	M10 x 80	60 80	3	8 pc(s).	9676.968
Maxi-PLS Flat-PLS	M12 x 40	100 120	1	8 pc(s).	9676.961
Maxi-PLS Flat-PLS	M12 x 60	100 120	2	8 pc(s).	9676.962
Maxi-PLS Flat-PLS	M12 x 80	100 120	3	8 pc(s).	9676.963



Support rail

For attaching to the outer mounting level of the TS enclosure and for use as a cable management bar.

Material:

- Sheet steel, zinc-plated

Supply includes:

- Assembly parts

For enclosure width mm	Packs of	Model No.
600	2 pc(s).	9676.196
800	2 pc(s).	9676.198



Support set (stabiliser)

for connection kit

To support the connector kits top/bottom for air circuit-breakers (ACB).

Material:

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

Supply includes:

- 4 stabilisers
- 2 angle brackets
- Assembly parts

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

Cover systems

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:

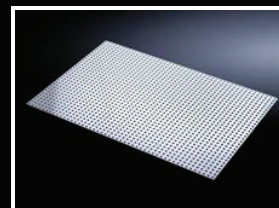
- Insulating material

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



Accessories:

- Mounting bracket, see page 365



Mounting bracket

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

Material:

- Sheet steel

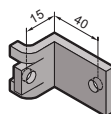
Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws

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



Cover systems

Form 2b



Contact hazard protection cover plate

for TS enclosures with NH slimline fuse-switch disconnectors

To cover outgoing sections with NH slimline fuse-switch disconnectors and Maxi-PLS/Flat-PLS 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:

- Cover set, two-piece (top)
- Cover set, two-piece (bottom)
- Assembly parts

Note:

- The specified installation width when using Maxi-PLS only applies in conjunction with top-mountable busbar supports 9649.160/9659.160.

For enclosure width mm	Free installation width when using Flat-PLS mm	Free installation width when using Maxi-PLS mm	Packs of	Model No.
600	300	500	1 pc(s).	9674.960
800	500	700	1 pc(s).	9674.980
1000	700	900	1 pc(s).	9674.900
1200	900	1100	1 pc(s).	9674.920



Accessories:

- Blanking cover, see page 366

Blanking cover

To cover free NH slimline fuse-switch disconnector slots.

Material:

- Sheet steel, 1.5 mm

Surface finish:

- Zinc-plated

Supply includes:

- 2 cover brackets
- Assembly parts

Width mm	Packs of	Model No.
50	2 pc(s).	9674.905

Compartment configuration

Form 1-4

Compartment side panel module

for internal compartmentalisation

Side divider panel for compartments, for locating into the TS pitch pattern. Prepared for the location of mounting brackets for horizontal compartment dividers or mounting plates. Two TS system punchings allow the use of additional TS accessories. The side panel modules for reduced compartment depth and an auxiliary construction using TS punched rails 17 x 17 mm can be used to provide a separate enclosure space in the side panel area, e.g. for the provision of a busbar system.

Material:

- Sheet steel, 1.5 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts



Accessories:

- Gland plate, see page 368
- TS punched rail 17 x 17 mm, see page 726
- Frame connector piece, see page 733
- T-connector piece, see page 734
- Corner connector, see page 734



For compartment depth mm	Height mm	With prepunched knockouts for M40 cable entries	With prepunched knockouts for gland plate, for cable entry	Packs of	Model No.
400	100	2	–	6 pc(s).	9673.041
400	150	–	2	6 pc(s).	9673.045
400	200	–	2	6 pc(s).	9673.042
400	300	–	1	2 pc(s).	9673.043
400	400	–	1	2 pc(s).	9673.044
400	600	–	3	2 pc(s).	9673.046
425	100	2	–	6 pc(s).	9673.051
425	150	–	3	6 pc(s).	9673.055
425	200	–	3	6 pc(s).	9673.052
600	100	2	–	6 pc(s).	9673.061
600	150	–	3	6 pc(s).	9673.065
600	200	–	3	6 pc(s).	9673.062
600	300	–	3	2 pc(s).	9673.063
600	400	–	3	2 pc(s).	9673.064
600	600	–	9	2 pc(s).	9673.066
800	100	2	–	6 pc(s).	9673.081
800	150	–	3	6 pc(s).	9673.085
800	200	–	3	6 pc(s).	9673.082
800	300	–	3	2 pc(s).	9673.083
800	400	–	3	2 pc(s).	9673.084
800	600	–	9	2 pc(s).	9673.086

Compartment side panel module

for cable connection space

For mounting a Maxi-PLS cable connection bar system

Material:

- Sheet steel, 2 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts



Also required:

- End support for Maxi-PLS, see page 354



For enclosure depth mm	Height mm	For system	Packs of	Model No.
600	450	Maxi-PLS 1600, 3/4 pole Maxi-PLS 2000, 3/4 pole Maxi-PLS 3200, 3-pole	2 pc(s).	9673.069
800	450	Maxi-PLS 1600, 3/4 pole Maxi-PLS 2000, 3/4 pole Maxi-PLS 3200, 3/4 pole	2 pc(s).	9673.089

Compartment configuration

Form 1-4



Gland plate for compartment side panel modules (internal compartmentalisation)

For closing cable entries.

Material:

- PVC, 3 mm
- Fire protection corresponding to UL 94-V0

Colour:

- RAL 7004

Supply includes:

- Assembly parts

For side panel module height mm	Packs of	Model No.
150	10 pc(s).	9673.195
200 600	10 pc(s).	9673.192
300	4 pc(s).	9673.193
400	4 pc(s).	9673.194



Terminal box Form 4b

for modular outgoing section

For shielding the connections (terminals) of the compartment, busbar space and cable chamber in accordance with Form 4b to IEC 61 439-2. The terminal boxes are externally mounted on the compartment side panel modules (for internal compartmentalisation) in the cable chamber to match the heights of the compartments. If necessary, a clamping strip may be mounted on the cable retainer included with the supply.

Material:

- Sheet steel, 1.5 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

Note:

- For installation of the terminal boxes, the width of the cable chamber must be at least 400 mm

For enclosure width mm	For compartment height mm	Packs of	Model No.
400 600	150	1 pc(s).	9674.701
400 600	200	1 pc(s).	9674.702
400 600	300	1 pc(s).	9674.703
400 600	400	1 pc(s).	9674.704
400 600	600	1 pc(s).	9674.706



Also required:

- Compartment side panel module, see page 367

Compartment configuration

Form 1-4

Compartment divider

For the horizontal separation of compartments. In combination with the side panel modules, this creates Form separation in accordance with Form 3 or 4.

Design:

- with vents

Material:

- Sheet steel, 1.25 mm

Surface finish:

- Zinc-plated



Also required:

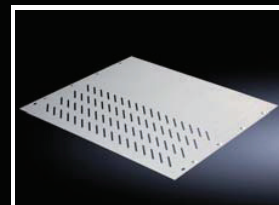
- Mounting bracket for compartment divider, see page 371
- Mounting bracket for compartment divider and air circuit-breaker support rail, see page 371



Assembly instruction:

- 2 mounting brackets are required to install each compartment divider.

For enclosure width mm	For compartment depth mm	Width mm	Depth mm	Packs of	Model No.
400	400	306	370	4 pc(s).	9673.443
400	425	306	445	4 pc(s).	9673.444
400	600	306	588	4 pc(s).	9673.445
400	800	306	788	4 pc(s).	9673.448
600	400	506	370	4 pc(s).	9673.463
600	425	506	445	4 pc(s).	9673.464
600	600	506	588	4 pc(s).	9673.465
600	800	506	788	4 pc(s).	9673.468
800	400	706	370	4 pc(s).	9673.483
800	425	706	445	4 pc(s).	9673.484
800	600	706	588	4 pc(s).	9673.485
800	800	706	788	4 pc(s).	9673.488



Compartment divider

for RiLine busbar systems

For the horizontal separation of compartments with integral RiLine distribution busbar system. In combination with the side panel modules, this creates Form separation in accordance with Form 3 or 4.

Design:

- with vents

Material:

- Sheet steel, 1.25 mm

Surface finish:

- Zinc-plated

For enclosure width mm	For compartment depth mm	Width mm	Depth mm	Packs of	Model No.
600	400	506	413	4 pc(s).	9673.454



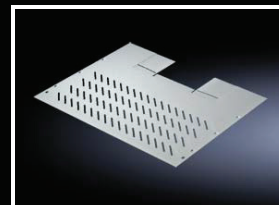
Also required:

- Mounting bracket, see page 371



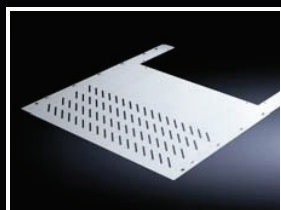
Assembly instruction:

- 2 mounting brackets for compartment dividers are required for each installation.



Compartment configuration

Form 1-4



Compartment divider

with duct for vertical busbar systems

For the horizontal separation of compartments with vertical busbars. In combination with the side panel modules, this creates Form separation in accordance with Form 3 or 4.

Design:

- with vents

Material:

- Sheet steel, 1.25 mm

Surface finish:

- Zinc-plated



Also required:

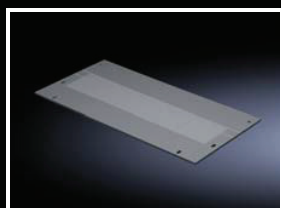
- Gland plate, see page 370
- Mounting bracket for compartment divider, see page 371
- Mounting bracket for compartment divider and air circuit-breaker support rail, see page 371



Assembly instruction:

- 2 mounting brackets are required to install each compartment divider.

For enclosure width mm	For compartment depth mm	Width mm	Depth mm	Width of entry mm	Depth of entry mm	Packs of	Model No.
400	600	306	588	212	201	4 pc(s).	9673.436
400	800	306	788	212	201	4 pc(s).	9673.438
600	600	506	588	412	201	4 pc(s).	9673.456
600	800	506	788	412	201	4 pc(s).	9673.458
800	600	706	588	612	201	4 pc(s).	9673.476
800	800	706	788	612	201	4 pc(s).	9673.478



Gland plate

for compartment divider with duct

To shroud the opening for vertical busbar systems.

Material:

- ABS PMMA

For enclosure width mm	Width mm	Height mm	Packs of	Model No.
400	250	223.5	4 pc(s).	9673.504
600	450	223.5	4 pc(s).	9673.506
800	650	223.5	4 pc(s).	9673.508



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	351	2 pc(s).	9673.004
600	551	2 pc(s).	9673.006
800	751	2 pc(s).	9673.008



Also required:

- Mounting bracket, see page 371
- Attachment set, see page 371



Compartment configuration

Form 1-4

Mounting bracket

for compartment divider

The mounting bracket may be attached to a TS frame, to a side panel module or between a frame section and an auxiliary construction. Pre-machined mounting openings allow slide-in attachment of compartment dividers.

Material:

- Sheet steel, 1.5 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For compartment depth mm	Length mm	Packs of	Model No.
400	352	8 pc(s).	9673.404
425	427	8 pc(s).	9673.405
600	552	8 pc(s).	9673.406
800	752	8 pc(s).	9673.408



Mounting bracket

for compartment divider and air circuit-breaker support rail

The mounting bracket is secured to the side panel module. Pre-machined mounting openings allow slide-in attachment of functional space dividers. The air circuit-breaker support bar may be attached to the upper level.

Material:

- Sheet steel, 2 mm

Surface finish:

- Zinc-plated

Supply includes:

- Assembly parts

For compartment depth mm	Length mm	Packs of	Model No.
600	552	2 pc(s).	9673.426
800	752	2 pc(s).	9673.428



Attachment set

for air circuit-breaker installation

For attaching air circuit-breakers (ACB) to air circuit-breaker support bars.

Material:

- Steel

Surface finish:

- Zinc-plated

Supply includes:

- 4 threaded plates (M8/M12)

Packs of	Model No.
1 pc(s).	9660.970



Compartment configuration

Form 1-4



Partial mounting plates for compartment side panel modules (internal compartmentalisation)

For direct attachment to the compartment side panel modules for internal compartmentalisation. Universal interior installation with switchgear and controlgear. Creation of additional mounting levels. In combination with compartment dividers and side panel modules, internal compartmentalisation in accordance with Form 2, 3 or 4 is possible.

Material:

- Sheet steel, 2 mm

Surface finish:

- Zinc-plated

Supply includes:

- Angle brackets and assembly parts



Also required:

- Compartment side panel module, see page 367

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).	9673.671
600	200	502	193	1 pc(s).	9673.672
600	300	502	293	1 pc(s).	9673.673
600	400	502	393	1 pc(s).	9673.674
800	200	702	193	1 pc(s).	9673.692
800	300	702	293	1 pc(s).	9673.693
800	400	702	393	1 pc(s).	9673.694

Design without duct

For enclosure width mm	For compartment height mm	Width mm	Height mm	Packs of	Model No.
400	200	302	193	1 pc(s).	9673.642
400	300	302	293	1 pc(s).	9673.643
400	400	302	393	1 pc(s).	9673.644
400	600	302	593	1 pc(s).	9673.646
400	800	302	793	1 pc(s).	9673.648
600	150	502	143	1 pc(s).	9673.661
600	200	502	193	1 pc(s).	9673.662
600	300	502	293	1 pc(s).	9673.663
600	400	502	393	1 pc(s).	9673.664
600	600	502	593	1 pc(s).	9673.666
600	800	502	793	1 pc(s).	9673.668
600	1000	502	993	1 pc(s).	9673.660
800	150	702	143	1 pc(s).	9673.681
800	200	702	193	1 pc(s).	9673.682
800	300	702	293	1 pc(s).	9673.683
800	400	702	393	1 pc(s).	9673.684
800	600	702	593	1 pc(s).	9673.686
800	800	702	793	1 pc(s).	9673.688
800	1000	702	993	1 pc(s).	9673.680

Compartment configuration

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 side panel modules for internal compartmentalisation. 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 compartment height mm	No. of pitch units 17.5 mm	Packs of	Model No.
600	150	1 x 24	1 pc(s).	9674.761
600	300	2 x 24	1 pc(s).	9674.762
800	300	2 x 36	1 pc(s).	9674.782



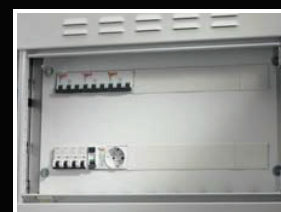
Also required:

- Compartment side panel module, see page 367



Accessories:

- Compartment divider, see page 369
- Partial mounting plates, see page 372



Coupling set mounting kit

for busbar enclosure or riser

The mounting kit is used as a base support for a vertical Maxi-PLS busbar system/Flat-PLS busbar system.

Material:

- Sheet steel

Surface finish:

- Zinc-plated

Supply includes:

- Mounting plate
- 2 punched sections with mounting flanges
- Assembly parts

Design for Flat-PLS busbar system

For enclosure width mm	For enclosure depth mm	Product-specific scope of supply	Packs of	Model No.
400	600	Gland plate	1 pc(s).	9674.046
400	800	Gland plate	1 pc(s).	9674.048

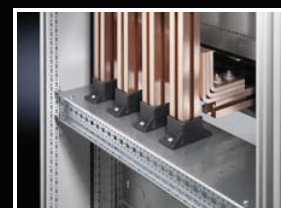
Design for Maxi-PLS busbar system

For enclosure width mm	For enclosure depth mm	Product-specific scope of supply	Packs of	Model No.
200	600	-	1 pc(s).	9674.196
200	800	-	1 pc(s).	9674.198



Also required:

- End support for Maxi-PLS, see page 354



Ri4Power accessories

Busbar system



System attachments

for RiLine main busbar system

System attachment with threaded holes M5 and M6 on a 50 mm pitch pattern for rear assembly of a RiLine main busbar system. For locating into the TS frame.

Material:

– Sheet steel

Surface finish:

– Zinc-plated

Supply includes:

– Assembly parts

Note:

– RiLine busbar systems, see page 265

For enclosure width mm	Width mm	Height mm	P. of	Model No.
400	338.5	362	1 pc(s).	9674.004
600	538.5	362	1 pc(s).	9674.006
800	738.5	362	1 pc(s).	9674.008



Distribution busbars

Prepared for the connection of T-connector kits.

Material:

– E-Cu

Flat busbar Cu 30 x 10 mm

For distribution busbar systems behind the compartment	For distribution busbar systems in the compartment (indoors)	P. of	Length mm	Model No.
For enclosure height mm				
2000	–	1 pc(s).	1410	9675.210
2200	1800 ¹⁾	1 pc(s).	1610	9675.212
–	2000 ¹⁾	1 pc(s).	1810	9675.220

¹⁾ Also suitable as a vertical busbar for PE/PEN/N

PLS 1600

For distribution busbar systems behind the compartment	For distribution busbar systems in the compartment (indoors)	P. of	Length mm	Model No.
For enclosure height mm				
2000	–	1 pc(s).	1350	9675.230
2200	1800 ¹⁾	1 pc(s).	1550	9675.232
–	2000 ¹⁾	1 pc(s).	1750	9675.240
–	2200 ¹⁾	1 pc(s).	1950	9675.242

¹⁾ Also suitable as a vertical busbar for PE/PEN/N



Copper spacer rolls

for Maxi-PLS busbars and flat copper bars

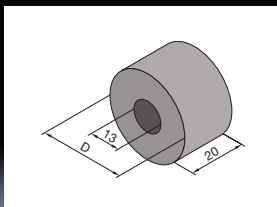
For use as a universal spacer.

Height: 20 mm

Hole diameter: 13 mm

Material:

– E-Cu



Diameter (D) mm	For connecting						P. of	Model No.
	Cu bar – Cu bar		Maxi-PLS – Cu bar		Flat-PLS – Cu bar			
	Cross-section size mm ²	Rated max. current A	Contact area mm ²	Rated max. current A	Contact area mm ²	Rated max. current A		
30	550	1100	360	800	380	850	4 pc(s).	9676.503
40	1100	2200	780	1600	670	1400	4 pc(s).	9676.504
50	1800	3400	1380	2800	990	2000	4 pc(s).	9676.505

Ri4Power accessories

Fuse-switch disconnecter section

Busbar support

for fuse-switch disconnecter section

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

Material:

- Duroplastic polyester

Supply includes:

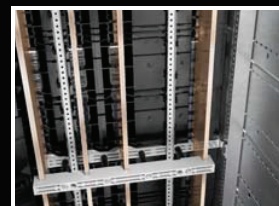
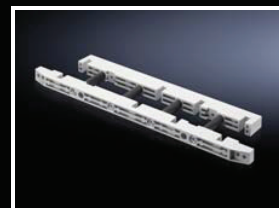
- Mounting bracket and screws

For busbars mm	Number of poles	Packs of	Model No.
50 x 10	3-pole 4-pole	1 pc(s).	9674.415
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:

- End support, see page 375
- Distribution busbars, see page 375



End support

for fuse-switch disconnecter section

End support for the distribution busbar system of the fuse-switch disconnecter 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.
50 x 10	3-pole 4-pole	1 pc(s).	9674.435
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:

- Distribution busbars, see page 375



Distribution busbars

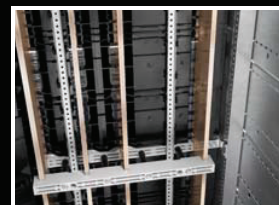
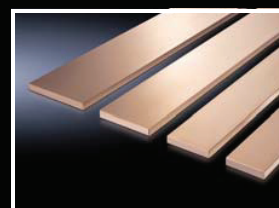
for fuse-switch disconnecter section

Distribution busbar to fit the main busbar systems Maxi-PLS and Flat-PLS for installation in the fuse-switch disconnecter sections.

Material:

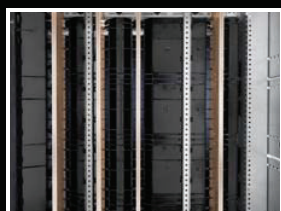
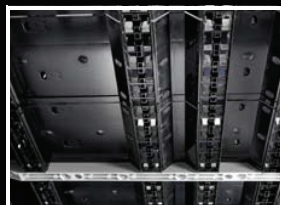
- E-Cu

For enclosure height mm	Dimensions mm	Length mm	Packs of	Model No.
2000	50 x 10	1632.5	1 pc(s).	9674.405
2000	60 x 10	1632.5	1 pc(s).	9674.406
2000	80 x 10	1632.5	1 pc(s).	9674.408
2000	100 x 10	1632.5	1 pc(s).	9674.400



Ri4Power accessories

Fuse-switch disconnecter section



Cover

Set for distribution busbar (Jean Müller fuse-switch disconnecter section)

To cover the distribution busbar system of a fuse-switch disconnecter 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 376

Punched rail

Set for cover, distribution busbar (Jean Müller fuse-switch disconnecter section)

Required for mounting the distribution busbar cover.

Material:

- Sheet steel, zinc-plated

Supply includes:

- Set consisting of 2 punched rails

Note:

- For 1 fuse-switch disconnecter section, 1 pack of punched rails is required.

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

Ri4Power accessories

Fuse-switch-disconnector section/software

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 order 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.



Rittal Power Engineering

Planning software for RiLine busbar systems and Ri4Power low-voltage switchgear with design verification

The multi-lingual software package includes the following functions:

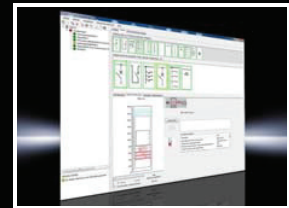
- Project handling, from the initial enquiry through to ordering
- Configuration of RiLine busbar systems in the TS enclosure, compact enclosure AE, CM, KS and free-standing enclosure SE.
- Configuration of low-voltage switchgear with Ri4Power systems Form 1-4 and ISV
- Fully automated generation of complete bills of materials and a calculation program for quote preparation
- Input and evaluation of assembly times to calculate man hours
- Access to the entire range of Rittal products
- Output of automatically generated system documentation with rated current and heat loss calculation

P. of	Model No.
1 pc(s).	3020.500

- Generation of special fields configured by the customer with graphical processing in the CAD view
- Import/export interfaces for product and CAD data
- Export function for order lists and bills of materials in Excel format
- Interface to EPLAN Electric P8, for the export of CAD data and bills of materials
- The extra benefit for engineering and planning offices: Output of detailed tender texts based on systems that have been project-planned in Power Engineering in MS Word format
- Output of project-specific assembly plans together with field and plant definitions
- Integral configurator for the generation of drawings and bills of materials to create connector kits for connecting air circuit-breakers (ACB)
- Simple generation of the design verification to IEC 61 439

Supply includes:

- DVD-ROM
Languages: German/English/French/Dutch/Danish/Swedish/Czech/Italian/Spanish/Polish/Russian/Chinese



Rittal – The System.

Faster – better – everywhere.

