

Power Distribution

Busbar Systems

Overview	195
RiLine Busbar Systems (60 mm)	197
RiLine Accessories	217

Ri4Power Form 1-4

Maxi-PLS Busbar Systems	229
Rittal Power Engineering	231



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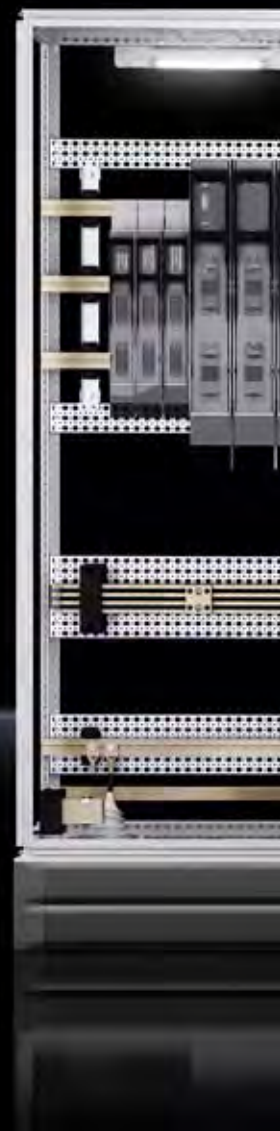
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Power Distribution from the smallest to the largest

The proven, highly flexible power distribution system for individual requirements. From small distribution boards, individual switchgear and control systems, to high-current power distributors for infrastructure and industrial applications.

- RiLine – the busbar systems and components for switchgear and control systems
- Ri4Power – the system construction kit for low-voltage switchgear
- Enhanced planning confidence – optimal design with Power Engineering



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Busbar Systems

RiLine Busbar Systems (60 mm)

Flat Copper Busbar System.....	198
PLS Busbar System	200
Connection Adapters.....	202
OM Adapters up to 65 A, with Connection Cables.....	204
OM Supports.....	207
Circuit-Breaker Component Adapters up to 630 A, 3-pole.....	208
Allocation of Switchgear	211
NH Fuse-Switch Disconnectors, Sizes 00 to 3.....	213
Fuse Holders 30 A to 400 A.....	215
RiLine Accessories	217



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RiLine

Busbar systems 3-pole and DC

Holder + busbars + contact hazard protection

- Flat copper busbar system, see page 198
- PLS busbar system, see page 200
- Accessories, see page 217

Connection systems 3-pole

- Connection adapters, see page 202
- Terminals, see page 223
- Connection block, see page 224
- Accessories, see page 223

Component adapters 3-pole

- OM adapters, see page 204
- Circuit-breaker component adapters, see page 208
- Accessories, see page 225

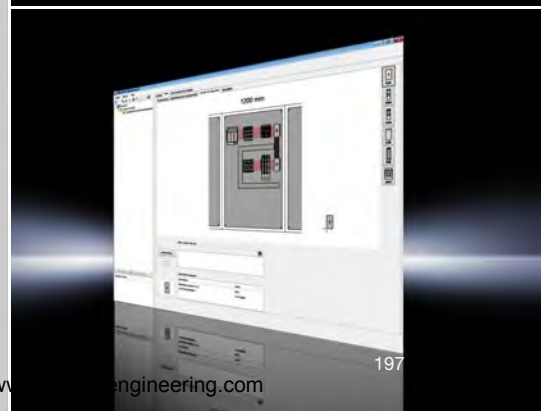
Fuse elements 3-pole

- NH fuse-switch disconnectors, see page 213
- Fuse holders, see page 215
- Accessories, see page 228

Rittal Power Engineering with update function

Model No. 3020.500,
see page 231

- Configuration of RiLine busbar systems
- Simple component selection, integrated switchgear database
- Automatic calculation of rated currents and power dissipation



RiLine Busbar Systems up to 800 A (60 mm)



Connection adapters Page 202 **OM adapters** Page 204 **Fuse elements** Page 213

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Note:

- UL approval only applies in conjunction with AC applications
- The use of a base tray is required for UL applications

Technical details:

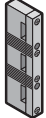
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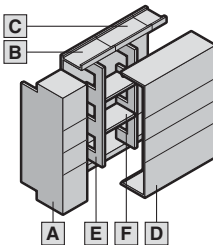
Flat copper busbar system

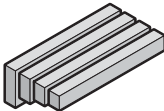
Busbar supports					
					
Number of poles	Packs of	3-pole	3-pole	3-pole	Page
Busbar center distance mm		60	60	60	
With external attachment		■	–	–	
With internal attachment		–	■	■	
For busbars mm	12 x 5/10	■	■	–	
	15 x 5 – 25 x 10, 30 x 5	■	■	■	
	30 x 10	■	■	■	
Rated operating voltage V, ~		1000, 3~	1000, 3~	1000, 3~	
		–	–	1500 (DC)	
Approvals		–	–	UL	
Model No.	4 pc(s).	9340.010	9340.000	9340.050	
Also required					
Spacers when using 12 x 5/10 mm busbars		■	■	–	
Model No.	12 pc(s).	9340.090	9340.090	–	217

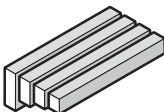
RiLine Busbar Systems up to 800 A (60 mm)

Flat copper busbar system

Busbar supports						
						
Number of poles	Packs of	3-pole	3-pole	3-pole		Page
Busbar center distance mm		60	60	60		
Model No.	4 pc(s).	9340.010	9340.000	9340.050		198
Also required						
Spacer when using 12 x 5/10 mm busbars		■	■	–		
Model No.	12 pc(s).	9340.090	9340.090	–		217

Contact hazard protection								
	Components	Length inches (mm)	Approvals	Packs of	Model No.			Page
	A End covers	–	UL	2 pc(s).	9340.070	9340.070	9340.070	–
	B Base trays	20 (500)	UL	2 pc(s).	–	9340.100	9340.100	222
		28 (700)	UL	2 pc(s).	–	9340.110	9340.110	222
		35 (900)	UL	2 pc(s).	–	9340.120	9340.120	222
		43 (1100)	UL	2 pc(s).	–	9340.130	9340.130	222
		94 (2400)	UL	1 pc(s).	–	9340.170	9340.170	222
	C Base tray infills	4 (100)	UL	2 pc(s).	–	9340.140	9340.140	222
	D Cover sections	28 (700)	UL	2 pc(s).	–	9340.200	9340.200	222
		43 (1100)	UL	2 pc(s).	–	9340.210	9340.210	222
E Support panels	–	UL	5 pc(s).	–	9340.220	9340.220	222	
F Cross members	6 (160)	UL	2 pc(s).	–	–	9340.230	222	

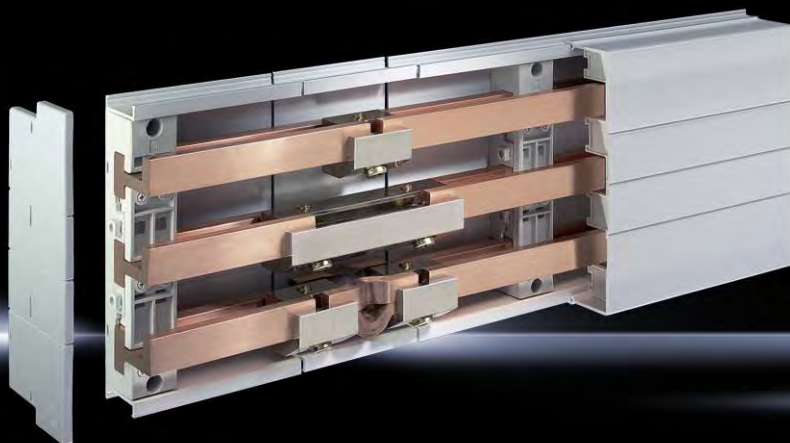
Busbars E-Cu, length: 94" (2400 mm)/bar									
	Dimensions mm	Max. rated current A to		Approvals	Packs of	Model No.			Page
		DIN EN	UL 508						
	12 x 5	210	—	UL	6 pc(s).	3580.000	3580.000	3580.000	218
	12 x 10	340	—	UL	6 pc(s).	3580.100	3580.100	3580.100	218
	15 x 5	260	175	UL	6 pc(s).	3581.000	3581.000	3581.000	218
	15 x 10	360	350	UL	6 pc(s).	3581.100	3581.100	3581.100	218
	20 x 5	319	230	UL	6 pc(s).	3582.000	3582.000	3582.000	218
	20 x 10	497	465	UL	3 pc(s).	3585.005	3585.005	3585.005	218
	25 x 5	384	290	UL	6 pc(s).	3583.000	3583.000	3583.000	218
	30 x 5	447	350	UL	6 pc(s).	3584.000	3584.000	3584.000	218
	30 x 10	800	700	UL	3 pc(s).	3586.005	3586.005	3586.005	218

Busbars CUPONAL, length: 94" (2400 mm)/bar									
	Dimensions mm	Max. rated current A to		Approvals	Packs of	Model No.			Page
		DIN EN	UL 508						
	20 x 5	235	–	–	6 pc(s).	–	3582.020	3582.020	218
	20 x 10	363	–	–	3 pc(s).	–	3585.020	3585.020	218
	30 x 5	328	–	–	6 pc(s).	–	3584.020	3584.020	218
	30 x 10	493	–	–	3 pc(s).	–	3586.020	3586.020	218

Accessories							
Components	For busbars mm	Approvals	Packs of	Model No.			Page
Busbar connectors for single connection	12 x 5 – 15 x 10	UL	3 pc(s).	9350.075	9350.075	9350.075	220
	20 x 5 – 30 x 10	UL	3 pc(s).	9320.020	9320.020	9320.020	220
Busbar connectors for baying connection ¹⁾	20 x 5 – 30 x 10	UL	3 pc(s).	9320.030	9320.030	9320.030	220
Busbar cover sections Length: 39" (1000 mm)/section	12 x 5 – 30 x 10	UL	10 pc(s).	3092.000	3092.000	3092.000	219
	12/15 x 5	UL	4 pc(s).	9350.010	9350.010	9350.010	219
	12/15 x 10	UL	4 pc(s).	9350.060	9350.060	9350.060	219

¹⁾ Connection from enclosure to enclosure

RiLine Busbar Systems 800 A/1600 A (60 mm)



Connection systems Page 202 **OM adapters** Page 204 **Fuse elements** Page 213

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Note:

- UL approval only applies in conjunction with AC applications
- The use of a base tray is required for UL applications

Technical details:

Available on the Internet

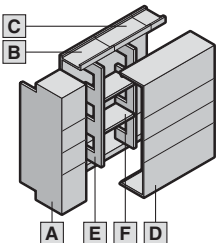
PLS busbar system

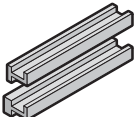
Busbar supports					
					
For Rittal system	Packs of	PLS 800		PLS 1600	
Number of poles		3-pole	3-pole	3-pole	3-pole
Busbar center distance mm		60	60	60	60
With internal attachment		■	■	■	■
Busbar support, suitable for top mounting		■	■	■	■
Rated operating voltage V, ~		1000, 3~	1000, 3~	1000, 3~	1000,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

RiLine Busbar Systems 800 A/1600 A (60 mm)

PLS busbar system

Busbar supports						
						
For Rittal system	Packs of	PLS 800		PLS 1600		Page
Number of poles		3-pole	3-pole	3-pole	3-pole	
Busbar center distance mm		60	60	60	60	
Model No.	4 pc(s).	9341.000	9341.050	9342.000	9342.050	200

Contact hazard protection									
	Components	Length inches (mm)	Approvals	Packs of	Model No.		Model No.		Page
	A End covers	–	UL	2 pc(s).	9341.070	9341.070	9342.070	9342.070	–
	B Base trays	20 (500)	UL	2 pc(s).	9341.100	9341.100	9342.100	9342.100	222
		28 (700)	UL	2 pc(s).	9341.110	9341.110	9342.110	9342.110	222
		35 (900)	UL	2 pc(s).	9341.120	9341.120	9342.120	9342.120	222
		43 (1100)	UL	2 pc(s).	9341.130	9341.130	9342.130	9342.130	222
		94 (2400)	UL	1 pc(s).	9341.170	9341.170	9342.170	9342.170	222
	C Base tray infills	4 (100)	UL	2 pc(s).	9341.140	9341.140	9342.140	9342.140	222
	D Cover sections	28 (700)	UL	2 pc(s).	9340.200	9340.200	9340.200	9340.200	222
		43 (1100)	UL	2 pc(s).	9340.210	9340.210	9340.210	9340.210	222
	E Support panels	–	UL	5 pc(s).	9340.220	9340.220	9340.220	9340.220	222
	F Cross members	6 (160)	UL	2 pc(s).	–	9340.230	–	9340.230	222

PLS special busbars E-Cu									
	Version			Packs of	PLS 800		PLS 1600		Page
	Bar cross-section mm ²				300		900		
	Bar thickness mm				5		10		
	Max. rated current A to		DIN EN		800		1600		
			UL 508		700		1400		
	Length inches (mm)	For enclosure width inches (mm)	Approvals		Model No.		Model No.		
	19 (495)	24 (600)	UL	3 pc(s).	3524.000		3527.000		219
	27 (695)	32 (800)	UL	3 pc(s).	3525.000		3528.000		219
	35 (895)	39 (1000)	UL	3 pc(s).	3525.010		3528.010		219
	43 (1095)	47 (1200)	UL	3 pc(s).	3526.000		3529.000		219
	94 (2400)	various	UL	1 pc(s).	3509.000		3516.000		219

Accessories							
Components			Approvals	Packs of	Model No.	Model No.	Page
PLS busbar connectors	Single connection			3 pc(s).	3504.000	3514.000	220
	Baying connection ¹⁾			3 pc(s).	3505.000	3515.000	220
PLS Expansion connectors ²⁾				3 pc(s).	9320.060	9320.070	220

¹⁾ Connection from enclosure to enclosure

²⁾ Two PLS busbar connectors (single connectors) are needed to fit one expansion connector

Connection Adapters



Busbar system Page 198 **OM adapters** Page 204 **Circuit-breaker component adapters** Page 208 **Fuse elements** Page 213

Material:

- Cover: ABS
- Chassis: Polyamide (PA 6.6)
- Chassis 3439.010: Fiberglass-reinforced, thermoplastic polyester (PBT)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Note:

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

Technical details:

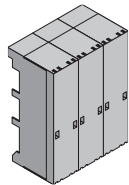
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Rated current max. 63 – 125 A

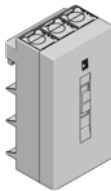
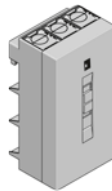
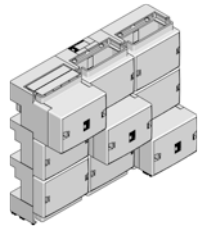
						
Rated current max. A	Packs of	63	63	125	125	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Rated operating voltage (L1 + L2) V		–	1000 (DC)	–	1000 (DC)	
Rated operating voltage (L1 + L3) V		–	1500 (DC)	–	1500 (DC)	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top	Bottom	Top/bottom	Bottom	
Connection of round conductors, fine wire with wire end ferrule	mm ²	2.5 - 10	2.5 - 10	10 - 25	10 - 25	
Connection of round conductors, multi-wire	mm ²	2.5 - 10	2.5 - 10	16 - 35	16 - 35	
	AWG	14 - 8	14 - 8	6 - 2	6 - 2	
Connection of round conductors, single-wire	mm ²	2.5 - 10	2.5 - 10	–	–	
	AWG	14 - 8	14 - 8	–	–	
Clamping area for laminated copper bars, H x W mm		–	–	7.8 x 10	7.8 x 10	
Clamping area for laminated copper bars, H x W (for 5 mm bar thickness)		–	–	–	–	
Clamping area for laminated copper bars, H x W (for 10 mm bar thickness)		–	–	–	–	
Height mm		215	215	210	210	
Width mm		20	20	55	55	
Approvals		UL	UL	UR	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9342.200	9342.210	9342.220	9342.240	
Accessories						
Laminated copper bars		–	–	see page	see page	221

Connection Adapters

Rated current max. 250 – 600 A

					
Rated current max. A		250	250	600	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Rated operating voltage (L1 + L2) V		–	1000 (DC)	–	
Rated operating voltage (L1 + L3) V		–	1500 (DC)	–	
Number of poles		3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Bottom	Top/bottom	
Connection of round conductors, fine wire with wire end ferrule	mm ²	35 - 120	35 - 120	35 - 240	
Connection of round conductors, multi-wire	mm ²	35 - 120	35 - 120	35 - 240	
	AWG - MCM	2 - 250	2 - 250	2 - 500	
Clamping area for laminated copper bars, H x W mm		15.5 x 18.5	15.5 x 18.5	21 x 24	
Clamping area for laminated copper bars, H x W (for 5 mm bar thickness)		–	–	–	
Clamping area for laminated copper bars, H x W (for 10 mm bar thickness)		–	–	–	
Height mm		210	210	247	
Width mm		90	90	180	
Approvals		UL	UL	–	
For busbar systems with center-to-center distance mm		60	60	60	
For bar thickness mm		5/10	5/10	5/10	
Model No.		9342.250	9342.270	3439.010	
	Packs of	1 pc(s).	1 pc(s).	1 set(s)	
Accessories					
Laminated copper bars		see page	see page	see page	221

Rated current max. 800 – 1600 A

						
Rated current max. A		800	800	800	1600	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Rated operating voltage (L1 + L2) V		–	1000 (DC)	1000 (DC)	1000 (DC)	
Rated operating voltage (L1 + L3) V		–	1500 (DC)	1500 (DC)	1500 (DC)	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Bottom	Top/bottom	
Connection of round conductors, fine wire with wire end ferrule mm ²	mm ²	95 - 185	95 - 185	95 - 185	–	
	mm ²	95 - 300	95 - 300	95 - 300	–	
Connection of round conductors, multi-wire mm ²	AWG - MCM	3/0 - 600	3/0 - 600	3/0 - 600	–	
Clamping area for laminated copper bars, H x W mm		20 x 33	–	33 x 20	–	
Clamping area for laminated copper bars, H x W (for 5 mm bar thickness) mm		–	26 x 33	–	27 x 65	
Clamping area for laminated copper bars, H x W (for 10 mm bar thickness) mm		–	21 x 33	–	22 x 65	
Height mm		246	210	246	210	
Width mm		129	150	129	255	
Approvals		UR	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.		9342.280	9342.310	9342.300	9342.320	
	Packs of	1 pc(s).	1 set(s)	1 pc(s).	1 set(s)	
Accessories						
Laminated copper bars		see page	see page	see page	see page	221

OM Adapters



Busbar system Page 198 **Connection adapters** Page 202 **Fuse elements** Page 213 **Allocation of switchgear** Page 211

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Note:

- The technical data may vary for UL applications

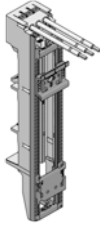
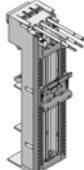
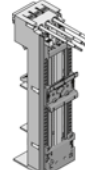
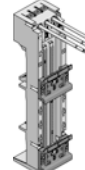
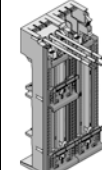
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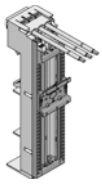
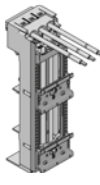
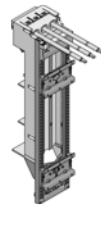
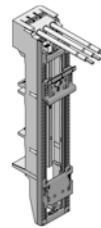
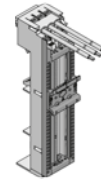
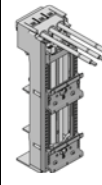
Color:

- Chassis: RAL 7035

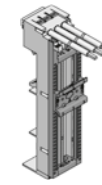
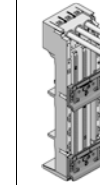
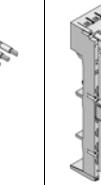
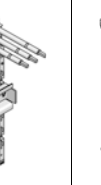
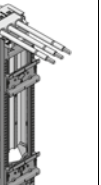
Rated current max. 16 – 25 A, with connection cables

								
Rated current max. A	Packs of	16	25	25	25	25	25	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	
Connection cables, version		AWG 12	AWG 12	AWG 12	AWG 12	AWG 12	AWG 12	
Connection cables, length mm		165	130	130	130	130	130	
With support frame mm		45 x 237	–	45 x 170	45 x 170	–	45 x 170	
With support frame supports		■	–	–	–	–	–	
With Pin Block		■	–	–	■	–	–	
With insert strips		–	–	–	–	–	–	
Support rails qty/height mm		1/10	1/10	1/10	1/10	2/10	3/10	
Support rail version		TS 45D	TS 45C	TS 45C	TS 45C	TS 45D	TS 45D TS 45D-V	
Height mm		272	208	208	208	208	208	
Width mm		45	45	45	45	45	90	
Approvals		UL	UL	UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9340.760	9340.310	9340.340	9340.370	9340.320	9340.400	
Accessories								
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	9340.280	9340.280	–	226
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	9340.290	9340.290	–	225
Support rails		from page	from page	from page	from page	from page	from page	225
OM supports		see page	see page	see page	see page	see page	–	207
Pin Block	5 pc(s).	–	–	9342.800	–	–	9342.800	226

Rated current max. 32 A, with connection cables

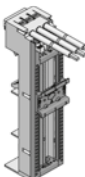
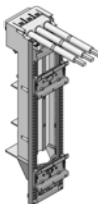
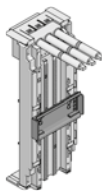
								
Rated current max. A	Packs of	32	32	32	32	32	32	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	3-pole	
Connection cables, version		AWG 10	AWG 10	AWG 10	AWG 10	AWG 10	AWG 10	
Connection cables, length mm		130	130	130	165	130	130	
With support frame mm		45 x 170	45 x 170	45 x 237	45 x 237	55 x 170	55 x 170	
With support frame supports		–	–	■	■	–	–	
With Pin Block		–	–	–	■	–	–	
With insert strips		–	–	–	–	–	–	
Support rails qty/height mm		1/10	2/10	2/10	1/10	1/10	2/10	
Support rail version		TS 45C	TS 45D TS 45D-V	TS 45D TS 45D-V	TS 45D	TS 55D	TS 55D TS 55D-V	
Height mm		208	208	272	272	208	208	
Width mm		45	45	45	45	55	55	
Approvals		UL	UL	UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9340.350	9340.380	9340.390	9340.770	9340.460	9340.470	
Accessories								
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	9340.280	9340.280	9340.280	226
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	9340.290	9340.290	9340.290	225
Support rails		from page	from page	from page	from page	from page	from page	225
OM supports		see page	see page	see page	see page	see page	see page	207
Pin Block	5 pc(s).	9342.800	9342.800	9342.800	9342.800	9342.810	9342.810	226

Rated current max. 40 A, with connection cables

							
Rated current max. A	Packs of	40	40	40	40	40	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	3-pole	
Connection cables, version		AWG 8	AWG 8	AWG 8	AWG 8	AWG 8	
Connection cables, length mm		130	130	130	130	130	
With support frame mm		55 x 170	–	–	55 x 237	–	
With support frame supports		–	–	–	■	–	
With Pin Block		–	–	–	–	–	
With insert strips		–	–	–	–	■	
Support rails qty/height mm		1/10	2/10	1/15	2/10	2/7.5	
Support rail version		TS 55D	TS 55D	Metal	TS 55D TS 55D-V	Metal	
Height mm		208	208	208	272	208	
Width mm		55	55	55	55	75	
Approvals		UL	UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9340.720	9340.740	9340.750	9340.730	9340.710	
Accessories							
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	9340.280	9340.280	226
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	9340.290	–	225
Support rails		from page	from page	from page	from page	from page	225
OM supports		see page	see page	see page	see page	see page	207
Pin Block	5 pc(s).	9342.810	–	–	9342.810	–	226

OM Adapters

Rated current max. 65 A, with connection cables

						
Rated current max. A	Packs of	65	65	65	65	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Connection cables, version		AWG 6	AWG 6	AWG 6	AWG 6	
Connection cables, length mm		130	130	130	130	
With support frame mm		–	55 x 170	55 x 237	–	
With support frame supports		–	–	■	–	
With Pin Block		–	–	–	–	
With insert strips		–	–	–	■	
Support rails qty/height mm		1/10	1/10	2/10	1/7.5	
Support rail version		TS 55E	TS 55E	TS 55E TS 55D-V	Metal	
Height mm		208	208	272	208	
Width mm		55	55	55	75	
Approvals		UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9340.410	9340.430	9340.450	9340.700	
Accessories						
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	–	226
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	–	225
Support rails		from page	from page	from page	from page	225
OM supports		see page	see page	see page	see page	207
Pin Block	5 pc(s).	–	9342.810	9342.810	–	226

Accessories



Power Engineering

See page 231



Busbar system Page 198 **Connection adapters** Page 202 **Fuse elements** Page 213

To mount switchgear with an external power supply.

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- Chassis: RAL 7035

Technical details:

Available on the Internet

without Contact System

					
Number of poles	Packs of	3-pole	3-pole	3-pole	Page
With support frame mm		45 x 170	55 x 237	–	
With support frame supports		–	■	–	
With Pin Block		■	–	–	
Support rails qty/height mm		–	1/10	2/10	
Support rail version		–	TS 55D-V	TS 45D	
Height mm		208	272	208	
Width mm		45	55	45	
Approvals		UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	
For bar thickness mm		5/10	5/10	5/10	
Model No.	1 pc(s).	9340.260	9340.270	9340.300	
Accessories					
Connection pin	20 pc(s).	9340.280	9340.280	9340.280	226
Insert strip	2 pc(s).	9340.290	9340.290	9340.290	225
Support rails		from page	from page	from page	225

Circuit-Breaker Component Adapters



Busbar system Page 198 **Connection adapters** Page 202 **Fuse elements** Page 213

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

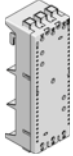
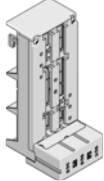
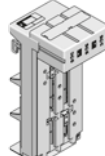
Note:

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

Technical details:

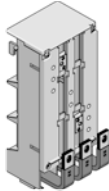
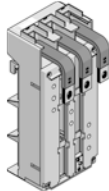
Available on the Internet

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

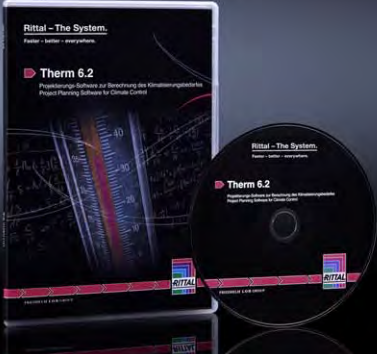
						
Rated current max. A	Packs of	100	100	125	125	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top	Bottom	Top	Bottom	
Type of connection		Box terminal	Box terminal	Box terminal	Box terminal	
Connection of round conductors	mm ²	10 - 35	10 - 35	35 - 120	35 - 120	
	AWG - MCM	8 - 2	8 - 2	2 - 250	2 - 250	
Clamping area for laminated copper bars, H x W mm		7.8 x 10	7.8 x 10	15.5 x 18.5	15.5 x 18.5	
For switchgear make (model)		ABB (MS 497) Eaton (PKZ2) Schneider Electric (GV3ME80) Siemens (S3)	ABB (MS 497) Eaton (PKZ2) Schneider Electric (GV3ME80) Siemens (S3)	ABB (S2, T1, T1 UL, T2, T2 UL) Allen Bradley (140-CMN) Eaton (NzM1, NzM1 UL, BZM B1), GE (FD) OEZ (BC160N) Schneider Electric (NS80, NSC100, NSE75, NSE100) Siemens (3RV13 53, 3VT1) Terasaki (E125, S125)	ABB (S2, T1, T1 UL, T2, T2 UL) Allen Bradley (140-CMN) Eaton (NzM1, NzM1 UL, BZM B1), GE (FD) OEZ (BC160N) Schneider Electric (NS80, NSC100, NSE75, NS100) Siemens (3RV13 53, 3VT1) Terasaki (E125, S125)	
Height mm		210	210	225	225	
Width mm		72	72	90	90	
Approvals		UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9342.400	9342.410	9342.540	9342.550	
Product-specific scope of supply						
Terminal cover		–	–	■	■	
Sliding blocks		–	–	■	■	
Accessories						
Support rails 35 x 15 mm	5 pc(s).	9320.120	9320.120	–	–	227
Sliding blocks	6 pc(s).	–	–	9342.560	9342.560	227
Connection bracket	3 pc(s).	–	–	9342.570	9342.570	227
Insert strip		–	–	–	–	

Circuit-Breaker Component Adapters

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

				
Rated current max. A	Packs of	250	250	Page
Rated operating voltage V, ~		690, 3~	690, 3~	
Number of poles		3-pole	3-pole	
Cable outlet		Top	Bottom	
Type of connection		–	–	
Clamping area for laminated copper bars, H x W mm		–	–	
For switchgear make (model)		ABB (S3, T3, T4, T3 UL, T4 UL) Allen Bradley (140 U-J) Eaton (NZM2, NZM2 UL, BZM B2) GE (FE 250) Mitsubishi (NF125-SGW/HGW, NF160-SGW/HGW) OEZ (BD250N, BD250S) Schneider Electric (NS(X)100, NS(X)160, NS(X)250, NSF150, NSF250, GV7) Siemens (VL150 UL, VL150X UL, VL160, VL160X, VL250, VL250 UL, 3RV10 63, 3RV13 63, 3RV13 64, 3VT2) Terasaki (L125, H125, S160, H160, L160, E250, L250, H250)	ABB (S3, T3, T4, T3 UL, T4 UL) Allen Bradley (140U-J) Eaton (NZM2, NZM2 UL, BZM B2) GE (FE 250) Mitsubishi (NF125-SGW/HGW, NF160-SGW/HGW) OEZ (BD250N, BD250S) Schneider Electric (NS(X)100, NS(X)160, NS(X)250, NSF150, NSF250, GV7) Siemens (VL150 UL, VL150X UL, VL160, VL160X, VL250, VL250 UL, 3RV10 63, 3RV13 63, 3RV13 64, 3VT2) Terasaki (L125, H125, S160, H160, L160, E250, L250, H250)	
Height mm		240	240	
Width mm		105	105	
Approvals		–	–	
For busbar systems with center-to-center distance mm		60	60	
For bar thickness mm		5/10	5/10	
Model No.	1 pc(s).	9345.600	9345.610	
Product-specific scope of supply				
Terminal cover		–	–	
Sliding blocks		■	■	
Connection straps		■	■	
Accessories				
Support rails 35 x 15 mm		–	–	
Sliding blocks	6 pc(s).	9342.640	9342.640	227
Connection bracket	3 pc(s).	–	–	227
Insert strip		–	–	

Accessories

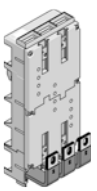
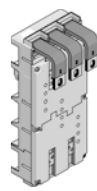
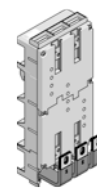
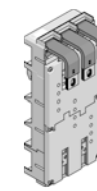


Therm Software

See page 321

Circuit-Breaker Component Adapters

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

						
Rated current max. A	Packs of	400	400	630	630	Page
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top	Bottom	Top	Bottom	
Type of connection		–	–	–	–	
Clamping area for laminated copper bars, H x W		–	–	–	–	
For switchgear make (model)		Eaton (NZM3, NZM3 UL/400 A) Mitsubishi (NF400-SEW/HEW/REW) Schneider Electric (NS(X)400, NSJ400) Siemens (VL400, VL400X UL, VL400 UL) Terasaki (E400, S400, H400, L400)	Eaton (NZM3, NZM3 UL/400 A) Mitsubishi (NF400-SEW/HEW/REW) Schneider Electric (NS(X)400, NSJ400) Siemens (VL400, VL400X UL, VL400 UL) Terasaki (E400, S400, H400, L400)	ABB (S5, T5, T5 UL) Allen Bradley (140U-L) Eaton (NZM3, NZM3 UL/630 A) Mitsubishi (NF630-SEW/HEW/REW) OEZ (BH630N, BH630S) Schneider Electric (NS(X)630, NSJ600) Siemens (VL630, 3VT3, 3V10 73, 3RV13 73, 3RV13 74) Terasaki (E630, S630)	ABB (S5, T5, T5 UL) Allen Bradley (140U-L) Eaton (NZM3, NZM3 UL/630 A) Mitsubishi (NF630-SEW/HEW/REW) OEZ (BH630N, BH630S) Schneider Electric (NS(X)630, NSJ600) Siemens (VL630, 3VT3, 3V10 73, 3RV13 73, 3RV13 74) Terasaki (E630, S630)	
Height mm		345	345	345	345	
Width mm		140	140	140	140	
Approvals		UL	UL	UL	UL	
For busbar systems with center-to-center distance mm		60	60	60	60	
For bar thickness mm		5/10	5/10	5/10	5/10	
Model No.	1 pc(s).	9345.720	9345.730	9345.700	9345.710	
Product-specific scope of supply						
Connection straps		■	■	■	■	
Sliding blocks		■	■	■	■	
Accessories						
Support rails 35 x 15 mm		–	–	–	–	
Sliding blocks		–	–	–	–	
Connection bracket		–	–	–	–	
Insert strip	4 pc(s).	9342.720	9342.720	9342.720	9342.720	227

New

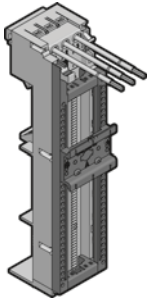


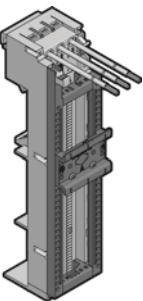
Perforex

See page 402

OM Adapters with Connection Cables

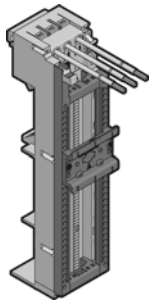
Allocation of switchgear

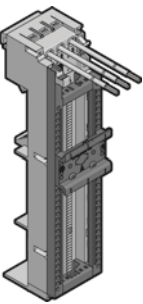


		For make/model		ABB										Eaton																	
				LS				Starter		Reversing starter		Soft starter		LS				Starter				Reversing starter		Soft starter							
				MS 116/132 MS 325 MS 450/451 MS 495/496/497 MS 116 + AF09, AF12, AF16 MS 132 + AF09, AF12, AF16, AF26, AF30, AF38 MS 450 + A40, A50 MS 116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

OM Adapters with Connection Cables

Allocation of switchgear



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

NH Fuse-Switch Disconnectors, Sizes 00 to 3



Busbar system Page 198 **Connection adapters** Page 202 **OM adapters** Page 204 **Circuit-breaker component adapters** Page 208

Material:

- Polyamide (PA 6)
- Fire behavior corresponding to UL 94-V0
- Contact tracks: Electrolytic copper, silver-plated

Color:

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

Basis of test:

- IEC 60 947-3
- IEC 60 269-2 (fuse inserts)

Note:

- The technical data may vary for UL applications

Technical details:

Available on the Internet

Size 00

Size	Packs of	00	00	00	Page
Rated operating current max. A		160	160	160	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	
Type of connection		Box terminal	Screw M8	Screw M8	
Connection of round conductors	mm ²	4 - 95	10 - 95	10 - 95	
	AWG	12 - 3/0	8 - 3/0	8 - 3/0	
Clamping area for laminated copper bars, H x W mm		13 x 13	5 x 20	5 x 20	
Height mm		194	194	194	
Width mm		106	106	106	
Approvals		UR	UR	UR	
For mounting plate assembly		–	–	■	
For busbar systems with center-to-center distance mm		60	60	–	
For bar thickness mm		5/10	5/10	–	
Model No.	1 pc(s).	9343.000	9343.010	9344.010	
Accessories					
Connection compartment cover	2 pc(s).	9344.520	9344.520	9344.520	228
Arcing chambers		–	–	–	
Micro-switch	5 pc(s).	3071.000	3071.000	3071.000	228
Laminated copper bars		see page	see page	see page	221

NH Fuse-Switch Disconnectors, Sizes 00 to 3

Size 1

Size	Packs of	1	1	Page
Rated operating current max. A		250	250	
Rated operating voltage V, ~		690, 3~	690, 3~	
Number of poles		3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	
Type of connection		Screw M10	Screw M10	
Connection of round conductors mm ²	mm ²	10 - 150	10 - 150	
	AWG - MCM	8 - 300	8 - 300	
Clamping area for laminated copper bars, H x W mm		10 x 32	10 x 32	
Height mm		298	298	
Width mm		184	184	
Approvals		UR	UR	
For mounting plate assembly		—	■	
For busbar systems with center-to-center distance mm		60	—	
For bar thickness mm		5/10	—	
Model No.	1 pc(s).	9343.110	9344.110	

Accessories

Connection compartment cover	2 pc(s).	9344.530	9344.530	228
Arcing chambers	3 pc(s).	9344.680	9344.680	228
Micro-switch	2 pc(s).	9344.510	9344.510	228
Laminated copper bars		see page	see page	221

Size 2 – 3

Size	Packs of	2	2	3	3	Page
Rated operating current max. A		400	400	630	630	
Rated operating voltage V, ~		690, 3~	690, 3~	690, 3~	690, 3~	
Number of poles		3-pole	3-pole	3-pole	3-pole	
Cable outlet		Top/bottom	Top/bottom	Top/bottom	Top/bottom	
Type of connection		Screw M10	Screw M10	Screw M10	Screw M10	
Connection of round conductors mm ²	mm ²	10 - 240	10 - 240	10 - 300	10 - 300	
	AWG - MCM	8 - 500	8 - 500	8 - 600	8 - 600	
Clamping area for laminated copper bars, H x W mm		10 x 50	10 x 50	10 x 50	10 x 50	
Height mm		298	298	298	298	
Width mm		210	210	250	250	
Approvals		UR	UR	UR	UR	
For mounting plate assembly		—	■	—	■	
For busbar systems with center-to-center distance mm		60	—	60	—	
For bar thickness mm		5/10	—	5/10	—	
Model No.	1 pc(s).	9343.210	9344.210	9343.310	9344.310	

Accessories

Connection compartment cover	2 pc(s).	9344.540	9344.540	9344.550	9344.550	228
Arcing chambers	3 pc(s).	9344.680	9344.680	9344.680	9344.680	228
Micro-switch	2 pc(s).	9344.510	9344.510	9344.510	9344.510	228
Laminated copper bars		see page	see page	see page	see page	221



Busbar system Page 198 **Connection adapters** Page 202 **OM adapters** Page 204 **Circuit-breaker component adapters** Page 208

Material:

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

Color:

- RAL 7035

Note:

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

Approvals:

- UL 512, CSA C22.2 No.39

Technical details:

Available on the Internet

Rated operating current max. 30 – 60 A

Fuse type (class)			CC	J	J	Page
Rated operating current max. A			30	30	60	
Rated operating voltage V, ~			600, 3~	600, 3~	600, 3~	
Number of poles			3-pole	3-pole	3-pole	
Fuse standard			UL 4248-4	UL 4248-8	UL 4248-8	
Fuse size mm			10 x 38	21 x 57	27 x 60	
Connection of round conductors	mm ²		2.5 - 10	2.5 - 25	2.5 - 25	
	AWG		14 - 8	14 - 4	14 - 4	
Height mm			78	114	122	
Width mm			52.5	97.5	120	
Depth mm			59	80	89	
Approvals			UL	UL	UL	
Model No.			9345.000	9345.010	9345.030	
	Packs of		4 pc(s).	2 pc(s).	2 pc(s).	

Fuse Holders



Busbar system Page 198 **Connection adapters** Page 202 **OM adapters** Page 204 **Circuit-breaker component adapters** Page 208

Material:

- Polyamide (PA 6)
- Fire behavior corresponding to UL 94-V0
- Contact tracks: Electrolytic copper, silver-plated

Color:

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

Approvals:

- UL 4248-1
- UL 4248-8
- CSA C22.2 No. 4248.1-07
- CSA C22.2 No. 4248.8-07

Technical details:

Available on the Internet

Rated operating current max. 100 – 400 A

Fuse type (class)		Packs of	J	J	J	Page
Rated operating current min. A			61	101	201	
Rated operating current max. A			100	200	400	
Rated operating voltage V, ~			600, 3~	600, 3~	600, 3~	
Number of poles			3-pole	3-pole	3-pole	
Fuse standard			UL 4248-8	UL 4248-8	UL 4248-8	
Fuse size mm			29 x 118	41 x 146	54 x 181	
Cable outlet			Top/bottom	Top/bottom	Top/bottom	
Type of connection			Box terminal	Box terminal	Box terminal	
Connection of round conductors	mm ²		35 - 150	95 - 300	95 - 300	
	AWG - MCM		2 - 300	4/0 - 600	4/0 - 600	
Height mm			288	288	328	
Width mm			184	210	250	
Approvals			UL	UL	UL	
For busbar systems with center-to-center distance mm			60	60	60	
For bar thickness mm			5/10	5/10	5/10	
Model No.		1 pc(s).	9345.100	9345.200	9345.400	

Busbar supports/post isolators

Busbar supports

1- and 2-pole

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Supply includes:

9342.030

- Elevation for stepped arrangement of PLS busbars

Note:

9340.030/9342.030

- The busbar supports can be bayed with a 60 mm busbar center distance when assembling multi-pole systems

Technical details:

Available on the Internet

Version	Packs of	1	2	2	Page
Number of poles		1-pole	1-pole	2-pole	
Busbar center distance mm		–	–	60	
For E-Cu busbars		PLS 1600	–	–	219
		–	12 x 5/10 ¹⁾ , 15 x 5 – 30 x 10 mm	12 x 5 – 30 x 10 mm	218
Rated operating voltage V, ~		1000, 1~	1000, 1~	1000, 2~	
		1500 (DC)	1500 (DC)	–	
PEN/N/PE supports		■	■	■	
N/PE supports		–	–	■	
Approvals		UL	UL	UL	
Model No.	4 pc(s).	9342.030	9340.030	9340.040	
Accessories					
Spacers	12 pc(s).	–	9340.090	–	217
Captive nuts M5 ²⁾	50 pc(s).	–	4166.000	4166.000	538

¹⁾ When using 12 x 5/10 mm busbars, spacer 9340.090 is required

²⁾ To attach the busbar supports to the TS frame profile and system chassis with rectangular 12.5 x 10.5 mm system punching

Post isolators

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

Material:

- Duroplastic polyester (UP resin)

Technical details:

Available on the Internet

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

Spacers

for RiLine busbar supports (flat bar system)

For adapting 12 x 5 and 12 x 10 mm size busbars.

For busbar supports

- 9340.030 (1-pole), see page 217
- 9340.000/.010 (3-pole), see page 198

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

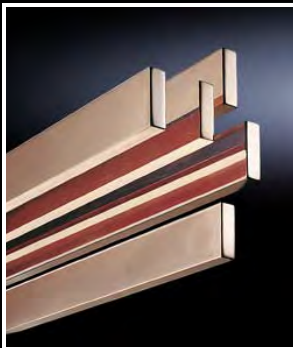
- RAL 7035

Packs of	Model No.
12 pc(s).	9340.090



RiLine Accessories

Busbars



Busbars CUPONAL

To DIN EN 13 601

Length: 94 inches (2400 mm)/bar

Copper-coated aluminum busbars, suitable for configuring busbar systems with busbar supports 9340.000/9340.050, see page 198.

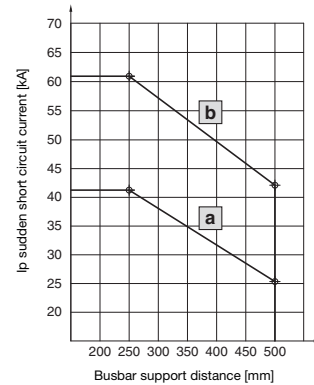
Material:

- Aluminum core with crimped copper coating made of E-Cu

Dimensions mm	Rated current ¹⁾ A	Packs of	Model No.
20 x 5	235	6 pc(s).	3582.020
20 x 10	363	3 pc(s).	3585.020
30 x 5	328	6 pc(s).	3584.020
30 x 10	493	3 pc(s).	3586.020

¹⁾ Current carrying capacity at 149°F bar temperature and 95°F ambient temperature, correction factor diagram to DIN 43 671

Short circuit strength diagram



Busbars CUPONAL mm	Busbar supports	Characteristic
20 x 5/10	9340.000/.050	a
30 x 5/10	9340.000/.050	b

Busbars E-Cu

To DIN EN 13 601

Length: 94 inches (2400 mm)/bar

Material:

E-Cu F30

Technical details:

Available on the Internet

Dimensions mm	Approvals	Packs of	Model No.	Page
12 x 5	UL	6 pc(s).	3580.000	
15 x 5	UL	6 pc(s).	3581.000	
20 x 5	UL	6 pc(s).	3582.000	
25 x 5	UL	6 pc(s).	3583.000	
30 x 5	UL	6 pc(s).	3584.000	
12 x 10	UL	6 pc(s).	3580.100	
15 x 10	UL	6 pc(s).	3581.100	
20 x 10	UL	3 pc(s).	3585.005	
30 x 10	UL	3 pc(s).	3586.005	

Accessories

Busbar connector mm	12 x 5 – 15 x 10 (single connection)	3 pc(s).	9350.075	220
	20 x 5 – 30 x 10 (single connection)	3 pc(s).	9320.020	220
	20 x 5 – 30 x 10 (baying connection)	3 pc(s).	9320.030	220
Busbar cover sections mm	12/15 x 5	4 pc(s).	9350.010	219
	12/15 x 10	4 pc(s).	9350.060	219
	12 x 5 – 30 x 10	10 pc(s).	3092.000	219

Busbars

Busbar cover sections

Contact hazard protection through encapsulation of busbars. May be cut to length as required.

Length: 39 inches (1000 mm)/section

Material:

- Thermally modified hard PVC
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Note:

- Contact hazard protection, additional solutions, see page 222

Technical details:

Available on the Internet

For busbars mm	Approvals	Packs of	Model No.
12/15 x 5	–	4 pc(s).	9350.010
12/15 x 10	–	4 pc(s).	9350.060
12 x 5 – 30 x 10		10 pc(s).	3092.000

PLS special busbars E-Cu

Technical details:

Available on the Internet

For PLS 800 system, bar thickness 5 mm, bar cross-section 300 mm²

For enclosure width inches (mm)	Length inches (mm)	Approvals	Packs of	Model No.	Page
24 (600)	19 (495)		3 pc(s).	3524.000	
32 (800)	27 (695)		3 pc(s).	3525.000	
39 (1000)	35 (895)		3 pc(s).	3525.010	
47 (1200)	43 (1095)		3 pc(s).	3526.000	
Variable	94 (2400)		1 pc(s).	3509.000	

Accessories

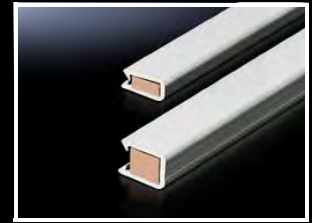
PLS busbar connectors (single connection)	3 pc(s).	3504.000	220
PLS busbar connectors (baying connection)	3 pc(s).	3505.000	220
PLS expansion connectors	3 pc(s).	9320.060	220

For PLS 1600 system, bar thickness 10 mm, bar cross-section 900 mm²

For enclosure width inches (mm)	Length inches (mm)	Approvals	Packs of	Model No.	Page
24 (600)	19 (495)		3 pc(s).	3527.000	
32 (800)	27 (695)		3 pc(s).	3528.000	
39 (1000)	35 (895)		3 pc(s).	3528.010	
47 (1200)	43 (1095)		3 pc(s).	3529.000	
Variable	94 (2400)		1 pc(s).	3516.000	

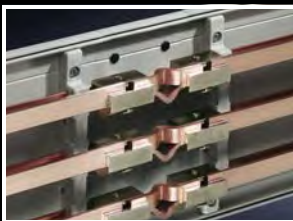
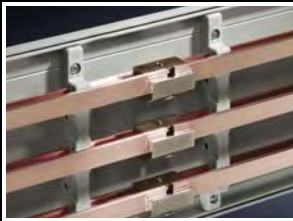
Accessories

PLS busbar connectors (single connection)	3 pc(s).	3514.000	220
PLS busbar connectors (baying connection)	3 pc(s).	3515.000	220
PLS expansion connectors	3 pc(s).	9320.070	220



RiLine Accessories

Busbars



Busbar connector

For connecting square busbars, no drilling required.

Material:

9350.075

- Top piece: St 37, nickel-plated surface finish
- Contact plate: E-Cu, nickel-plated surface finish

9320.020/9320.030

- Top piece: Carbon steel, zinc-plated, passivated
- Contact plate: E-Cu, silver-plated

Technical details:

Available on the Internet

For busbars mm	Application		Approvals	Packs of	Model No.
	Single connection	Baying connection ¹⁾			
12 x 5 – 15 x 10	■	–	UL	3 pc(s).	9350.075
20 x 5 – 30 x 10	■	–	UL	3 pc(s).	9320.020
	–	■	UL	3 pc(s).	9320.030

¹⁾ Connection from enclosure to enclosure

PLS busbar connectors

For connecting the special PLS busbars. No drilling required.

Material:

- E-Cu

Surface finish:

- Nickel-plated

Technical details:

Available on the Internet

Application	For system	Approvals	Packs of	Model No.
Single connection	PLS 800	UL	3 pc(s).	3504.000
	PLS 1600	UL	3 pc(s).	3514.000
Baying connection ¹⁾	PLS 800	UL	3 pc(s).	3505.000
	PLS 1600	UL	3 pc(s).	3515.000

¹⁾ Connection from enclosure to enclosure

PLS expansion connectors

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

Material:

- E-Cu

Note:

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

Technical details:

Available on the Internet

Expansion connector	For system	Approvals	Packs of	Model No.	Page
	PLS 800	UL	3 pc(s).	9320.060	
	PLS 1600	UL	3 pc(s).	9320.070	

Also required

PLS busbar connectors ¹⁾	PLS 800	UL	3 pc(s).	3504.000	220
	PLS 1600	UL	3 pc(s).	3514.000	220

¹⁾ Two busbar connectors are needed to fit one expansion connector

Laminated copper bars

Length: 79 inches (2000 mm)/bar

Material:

Cu membranes

- High-purity electrolyte copper F20

Insulation

- High-strength vinyl compound
- Expansion 370%
- Temperature range: -22°F...+221°F
- Fire behavior corresponding to UL 94-V0
- Dielectric strength: 20 kV/mm

Technical details:

Available on the Internet

Assembly ¹⁾ mm	I _n at 70 K ²⁾ A	I _n at 50 K ²⁾ A	I _n at 30 K ²⁾ A	Approvals	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 sum of the ambient temperature and temperature increase is used to determine the resulting conductor temperature of the laminated copper bars

Example:

3565.005 at 180 A, i.e. the temperature increases by 30 K. An ambient temperature of 95°F results in a conductor temperature of 95°F + 30 K = 149°F

Universal supports

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

Material:

- Fiberglass-reinforced, thermoplastic polyester (PBT)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Supply includes:

- Screws and U nuts to attach to PS punched rails

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



Accessories:

- PS punched rails, see page 526

Technical details:

Available on the Internet

Universal supports

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

Material:

- Fiberglass-reinforced, thermoplastic polyester (PBT)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Supply includes:

- Screws and sliding nuts to attach to C rails

Packs of	Model No.
3 set(s)	3079.010

Note:

- The 3 sets of universal supports match the scope of supply shown in the photo



Accessories:

- C rails 30/15, see page 528



RiLine Accessories

Contact hazard protection



System components

Material:

- Thermally modified hard PVC
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Technical details:

Available on the Internet

For RiLine busbar system			3-pole		
Flat busbars			PLS 800	PLS 1600	
[1] Base trays					
Length (L) inches (mm)	Packs of	Approvals	Model No.		
20 (500)	2 pc(s).	UL	9340.100	9341.100	9342.100
28 (700)	2 pc(s).	UL	9340.110	9341.110	9342.110
35 (900)	2 pc(s).	UL	9340.120	9341.120	9342.120
43 (1100)	2 pc(s).	UL	9340.130	9341.130	9342.130
94 (2400)	1 pc(s).	UL	9340.170	9341.170	9342.170
[1] Base tray infills					
4 (100)	2 pc(s).	UL	9340.140	9341.140	9342.140
[2] Cover sections					
28 (700)	2 pc(s).	UL	9340.200	9340.200	9340.200
43 (1100)	2 pc(s).	UL	9340.210	9340.210	9340.210

[1] Base tray For rear contact hazard protection of the flat busbar assembly.	[1] Base tray infill For rear contact hazard protection when connecting the busbars from enclosure to enclosure. Supply includes: Assembly components	[2] Cover section May be cut to desired width; for clip-on mounting to the base tray. Note: If a load will be applied to the cover section from the front, the support panel is required to provide stabilization.
---	--	---

Support panels

for cover section

To prevent side access to the cover section. The support panel also provides additional stability.

Recommended mounting distance: ≤ 500 mm

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

For system assembly	Approvals	Packs of	Model No.
3-pole	UL	5 pc(s).	9340.220

Technical details:

Available on the Internet

Cross members

for RiLine busbar connections, 3-pole

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

Material:

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Note:

- For a busbar connection two cross members are required

Length inches (mm)	Approvals	Packs of	Model No.
6.3 (160)	UL	2 pc(s).	9340.230



Also required:

- Support panel 9340.220, see page 222

Technical details:

Available on the Internet

Conductor terminals

Material:

3450.500 – 3459.500

– Carbon steel, zinc-plated, passivated

3550.000/3555.000

– Brass



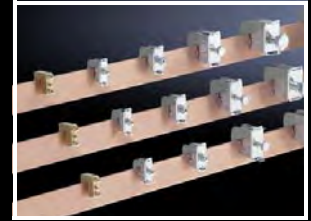
Accessories:

– Laminated copper bars, see page 221

Technical details:

Available on the Internet

For busbar thickness mm	Connection of round conductors		Clamping area for laminated copper bars, H x W mm	Approvals	Packs of	Model No.
	mm ²	AWG – MCM				Model No.
3 – 5	1 – 4	17 – 12	–		15 pc(s).	3550.000
5	1 – 4	17 – 12	–		15 pc(s).	3450.500
5	2.5 – 16	14 – 6	8 x 8		15 pc(s).	3451.500
5	16 – 50	6 – 0	11 x 10.5		15 pc(s).	3452.500
5	35 – 70	2 – 2/0	15 x 16.5		15 pc(s).	3453.500
5	70 – 185	2/0 – 350	20 x 22.5		15 pc(s).	3454.500
6 – 10	1 – 4	17 – 12	–		15 pc(s).	3555.000
10	1 – 4	17 – 12	–		15 pc(s).	3455.500
10	2.5 – 16	14 – 6	8 x 8		15 pc(s).	3456.500
10	16 – 50	6 – 0	11 x 10.5		15 pc(s).	3457.500
10	35 – 70	2 – 2/0	15 x 16.5		15 pc(s).	3458.500
10	70 – 185	2/0 – 350	20 x 22.5		15 pc(s).	3459.500



System covers

For conductor terminals and plate clamps.

Material:

– ABS

– Fire behavior corresponding to UL 94-V0

Color:

– RAL 7035

Note:

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

Technical details:

Available on the Internet

Width mm	Depth mm	Height mm		Approvals	Packs of	Model No.
		When fitted to busbar systems				
		60 mm	100 mm			
50	80	230	325		4 pc(s).	3086.000
100	80	230	325		4 pc(s).	3087.000
100	110	230	325		4 pc(s).	3090.000
200	80	230	325		4 pc(s).	3088.000
200	110	230	325		4 pc(s).	3091.000



Connection systems



Connection block

For the connection of round conductors and laminated copper bars.
For busbars 12 x 5 – 30 x 10 mm.

Material:

Chassis

- Polyamide (PA 6.6)
- Fire behavior corresponding to UL 94-V0

Cover

- ABS
- Fire behavior corresponding to UL 94-V0

Color:

- RAL 7035

Supply includes:

- Three terminals including cover

Note:

- When using the terminal on 2-pole busbar systems, the terminal must be rotated through 180° for connection to the PE busbar

Technical details:

Available on the Internet

Rated current max. A		Packs of	800	1600	Page
Rated operating voltage V, ~			690, 1~	690, 1~	
Rated operating voltage (L1 + L2) V			1000 (DC)	1000 (DC)	
Rated operating voltage (L1 + L3) V			1500 (DC)	1500 (DC)	
Cable outlet			Top/bottom	Top/bottom	
Connection of round conductors, fine wire with wire end ferrule	mm ²		95 – 185	–	
Connection of round conductors, multi-wire	mm ²		90 – 300	–	
	AWG – MCM		3/0 – 600		
Clamping area for laminated copper bars (for 5 mm bar thickness), H x W mm			26 x 33	27 x 65	
Clamping area for laminated copper bars (for 10 mm bar thickness), H x W mm			21 x 33	22 x 65	
Height mm			88	88	
Width mm			50	85	
Approvals			UL	UL	
Model No.		3 pc(s).	9342.311	9342.321	
Accessories					
Laminated copper bars			■	■	221

RiLine Accessories

for OM adapters/supports

Support rails 35 x 10 mm

for OM adapters/supports

For attaching to the adapter section and support frame.

Material:

- Polyamide (PA 6.6)

Color:

- RAL 9005

Supply includes:

- Assembly screws

Note:

- UL approval in conjunction with OM adapter/support

Version	Width mm	With anti-slip guard ¹⁾	Packs of	Model No.
TS 45C	45	■	5 pc(s).	9342.850
TS 45D	45	–	5 pc(s).	9342.860
TS 45D-V ²⁾	45	–	5 pc(s).	9342.870
TS 55C	55	■	5 pc(s).	9342.920
TS 55D	55	–	5 pc(s).	9342.930
TS 55D-V ²⁾	55	–	5 pc(s).	9342.940

¹⁾ Anti-slip guard for motor circuit-breaker

²⁾ Support rail only suitable for non hole-pattern dependent mounting on support frame



Support rails 35 x 15 mm

for OM adapters/supports

For attaching to the adapter section.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws and side anti-slip guard

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



Support rails 35 x 7.5 mm

for OM adapters/supports

For assembly on 55 mm wide OM adapters/supports with 10 mm wide insert strips mounted on the right and left.

Arrangement of the mounting hole for central configuration on 55 mm wide adapter section or support frame.

Material:

- Carbon steel

Surface finish:

- Zinc-plated

Supply includes:

- Assembly screws and side anti-slip guard

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



Insert strips

for OM adapters/supports

To extend the construction width in a 10 mm hole pattern. May be bayed as often as required on both sides. With integral cable duct.

Material:

- Polyamide (PA 6.6)

Color:

- RAL 7035

Supply includes:

- 6 connection pins

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



RiLine Accessories

for OM adapters/supports



Connection pin

For any required mechanical connection of OM adapter/support and insert strip 9340.290.

Material:

– Polyamide (PA 6)

Color:

– RAL 5010

Approvals	Packs of	Model No.
UL	20 pc(s).	9340.280



Pin Block

for support frames

For secure attachment and positioning of the contactor on motor starter combinations. For simple clip-on mounting onto the support frame. Individual vertical positioning is achieved by relocating the Pin Block.

Material:

– Polyamide (PA 6.6)

Color:

– RAL 9005

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

Note:

– UL approval in conjunction with OM adapter/support



Accessories:

– Pin Block Plus, see page 226



Pin Block Plus

for starters with increased contactor attachment

Mounted by simply clipping onto the Pin Block 9342.800/.810.

Material:

– Polyamide (PA 6.6)

Color:

– RAL 9005

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

Note:

– UL approval in conjunction with OM adapter/support



Cable set

Pre-assembled connection cables for individual connection of switchgear, top-mounted on OM adapters with tension spring clamps, or suitable for wiring between individual switchgear.

Length: 130 mm

Material:

- PVC insulation
- Temperature resistant to 221°F
- Wire ends with ultrasonic wire-end compression at both ends

Technical details:

Available on the Internet

Version	Packs of	Model No.
AWG 14 = 2.08 mm ² ± 2.5 mm ²	15 pc(s).	9340.850
AWG 12 = 3.31 mm ² ± 4 mm ²	15 pc(s).	9340.860
AWG 10 = 5.26 mm ² ± 6 mm ²	15 pc(s).	9340.870
AWG 8 = 8.37 mm ² ± 10 mm ²	6 pc(s).	9340.880
AWG 6 = 13.3 mm ² ± 16 mm ²	6 pc(s).	9340.890

AWG = American Wire Gauges

RiLine Accessories

for circuit-breaker component adapters

Insert strips

for circuit-breaker component adapters

To extend the construction width from 140 mm to 190 mm.

Material:

– ABS

Color:

– RAL 7035

Suitable for Model No.	Width mm	Approvals	Packs of	Model No.
9345.700/.710 9345.720/.730	25	UL	4 pc(s).	9342.720

Note:

– Four pieces are required to extend a component adapter



Sliding blocks

for circuit-breaker component adapters

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

Color:

– RAL 7035

Note:

– UL approval in conjunction with circuit-breaker component adapter

Suitable for Model No.	With threaded insert	Packs of	Model No.
9342.540/.550	M3/M4	6 pc(s).	9342.560
9345.600/.610	M4/M5	6 pc(s).	9342.640



Connection bracket

for circuit-breaker component adapters

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

Material:

– Electrolytic copper F20

Insulation:

- Vinyl compound
- Temperature resistant to 221°F
- Fire behavior corresponding to UL 94-V0

Technical details:

Available on the Internet



Suitable for Model No.	Dimensions ¹⁾ mm	To connect circuit-breakers (MCCB), Make (model)	Packs of	Model No.
9342.540/.550	6 x 9 x 0.8	ABB (T1, T1 UL, T2, T2 UL), Eaton (NZM1, NZM1 UL, BZM B1), OEZ (BC160N), Schneider Electric (NSC100, NSE75, NSE100) Siemens (3RV13 53, 3VT 1)	3 pc(s).	9342.570²⁾

¹⁾ Number of membranes x membrane width x membrane thickness

²⁾ Universal application for switchgear with a dimensional difference between the mounting level and the upper edge of the contact level of 20 ± 5 mm

Support rails 35 x 15 mm

for circuit-breaker component adapters

Material:

– Carbon steel

Surface finish:

– Zinc-plated

Supply includes:

– Assembly screws and side anti-slip guard

Suitable for Model No.	Width mm	Approvals	Packs of	Model No.
9342.400 9342.410	72	UL	5 pc(s).	9320.120



for NH fuse-switch/NH in-line fuse-switch disconnectors



Connection compartment covers

for NH disconnectors

For extending the contact hazard protection cover, e.g. when using cable lugs with a long collar. Bayable as required at the top and bottom.

Material:

– Polyamide (PA 6)

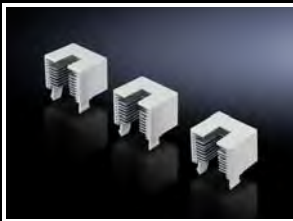
Color:

– RAL 7035

Suitable for NH disconnectors	Packs of	Model No.
Size 00	2 pc(s).	9344.520
Size 1	2 pc(s).	9344.530
Size 2	2 pc(s).	9344.540
Size 3	2 pc(s).	9344.550

Technical details:

Available on the Internet



Arcing chambers

for NH disconnectors, sizes 1 to 3

To increase switching capacity (utilization category).

Technical details:

Available on the Internet

Packs of	Model No.
3 pc(s).	9344.680



Micro-switch

for NH disconnectors/NH in-line fuse-switch disconnectors

To indicate the switch position of the NH unit (switch cover).

Suitable for NH disconnectors	Packs of	Model No.
Size 000/00	5 pc(s).	3071.000
Size 1/2/3	2 pc(s).	9344.510¹⁾

¹⁾ Incl. plastic lug for attaching the micro-switch to the disconnector chassis

Maxi-PLS Busbar System

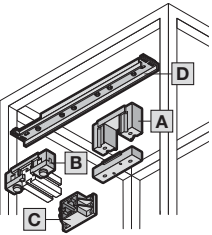
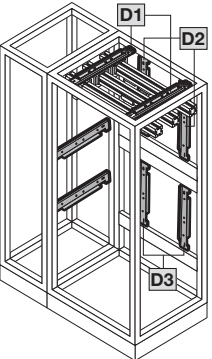
System components

Note:

- Busbars for PE/PEN combinations, see page 559/559

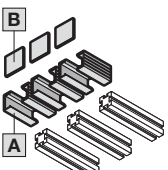
Technical details:

Available on the Internet

Supports and fastening in TS enclosure				Packs of	Maxi-PLS 1600/2000		Maxi-PLS 3200	
					Model No.		Model No.	
					3-pole	4-pole	3-pole	4-pole
	A Busbar supports 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 to install busbar supports. Material: Stainless steel							
	For application	For enclosure depth inches (mm)	Bar center distance inches (mm)	Packs of	Model No.		Model No.	
	D1 in the roof/base section/directly above/below coupling switch	24 (600)	4 (100)	2 pc(s).	9640.080		-	
			6 (150)	2 pc(s).	-		9650.100	
			32 (800)	6 (150)	2 pc(s).	-		9650.080
	D2 rear enclosure section, top/bottom	-	6 (150)	2 pc(s).	-		9650.098	
	D3 rear enclosure section, center 7" (185 mm)	-	7 (185)	2 pc(s).	3-pole	4-pole	3-pole	4-pole
9640.150					-	9650.150	-	

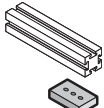
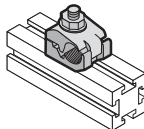
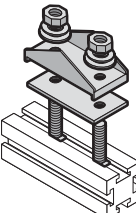
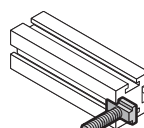
A Maxi-PLS Busbars, E-Cu					Maxi-PLS 1600	Maxi-PLS 2000	Maxi-PLS 3200
					Model No.		Model No.
For enclosure width inches (mm)	For application ¹⁾	Length inches (mm)	Packs of				
24 (600)	a	19 (491)	1 pc(s).		9640.206	9640.201	9650.201
24 (600)	b	21 (525)	1 pc(s).		9640.216	9640.211	9650.211
24 (600)	c	24 (599)	1 pc(s).		9640.226	9640.221	9650.221
32 (800)	a	27 (691)	1 pc(s).		9640.236	9640.231	9650.231
32 (800)	b	29 (725)	1 pc(s).		9640.246	9640.241	9650.241
32 (800)	c	31 (799)	1 pc(s).		9640.256	9640.251	9650.251
39 (1000)	a	35 (891)	1 pc(s).		9640.266	9640.261	9650.261
39 (1000)	b	36 (925)	1 pc(s).		9640.276	9640.271	9650.271
39 (1000)	c	39 (999)	1 pc(s).		9640.286	9640.281	9650.281
47 (1200)	a	43 (1091)	1 pc(s).		9640.296	9640.291	9650.291
47 (1200)	b	44 (1125)	1 pc(s).		9640.306	9640.301	9650.301
47 (1200)	c	47 (1199)	1 pc(s).		9640.316	9640.311	9650.311
-	-	94 (2400)	3 pc(s).		9640.365	9640.360	9650.360
-	-	94 (2400)	4 pc(s).		-	9649.360	9659.360
B Longitudinal connector E-Cu for easy bayed connection of Maxi-PLS busbars. Incl. sliding blocks, bolt, 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 panels bayed on the left and right

Contact hazard protection		Packs of	Model No.	Model No.
	A Cover section for clip-on mounting on the Maxi-PLS busbars, length 39" (1000 mm). Material: Hard PVC	5 pc(s).	9640.050	9650.050
	B End cover for clip-on mounting on the end surface of Maxi-PLS busbars. Material: Polyamide (PA 6.6)	2 pc(s).	9649.060	9659.060

Maxi-PLS Busbar System

System components

Connection systems				Packs of	Maxi-PLS 1600/2000 Model No.	Maxi-PLS 3200 Model No.
	Contact makers E-Cu to make the contact between the connection brackets and Maxi-PLS busbars. Incl. sliding blocks.					
	Width mm	60		1 pc(s).	9640.171	9650.171
		100		1 pc(s).	9640.181	9650.181
	Terminals to connect round conductors (Cu/Al) 95 to 300 mm ² (single-wire and multi-wire). Incl. assembly components.					
				1 pc(s).	9640.325	9650.325
	Connection plates to connect laminated copper bars. Incl. assembly components.					
	Clamping area max. mm	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 studs for connecting cables with cable lugs, 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 inserted into the Maxi-PLS busbar profile 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 retrospective insertion into the Maxi-PLS busbar profile.					
	Thread	M6		15 pc(s).	9640.900	9650.900
		M8		15 pc(s).	9640.910	–
				3 pc(s).	–	9650.905
		M10		15 pc(s).	9640.920	9650.910
	Thread	M12		15 pc(s).	–	9650.920
		Threaded bolts for individual connection options. Incl. nuts and washers, spring lock washers (only M6 and M8) or washers (only M10 and M12). Note: Additional sliding blocks or sliding nuts are required to secure.				
		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

Rittal Power Engineering

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

The multilingual software provides the following functionalities:

- Project handling, from the initial inquiry through to ordering
- Configuration of RiLine busbar systems in the TS enclosure, compact enclosures AE, CM, KS and free-standing enclosure SE
- Configuration of low-voltage switchgear with Ri4Power systems Form 1-4
- Complete, automatic function for the generation of 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 plant documentation with rated current and power loss calculation

Packs 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 on the basis of projected Power Engineering systems 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 open air circuit-breakers (ACB)
- Simple generation of design verification certificate in accordance with IEC 61439

Supply includes:

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

