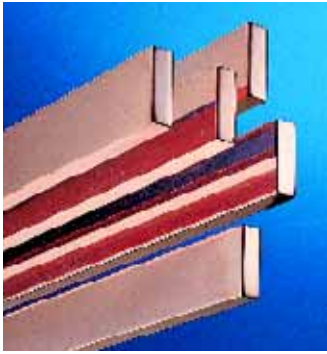


Busbars

and accessories



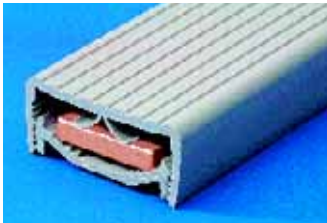
Busbars

made from E-Cu
To DIN EN 13 601.
Length: 2400 mm/bar.

Dimensions mm	Weight/bar kg	Packs of	Model No. SV
12 x 5	1.28	6	3580.000
15 x 5	1.60	6	3581.000
20 x 5	2.14	6	3582.000
25 x 5	2.67	6	3583.000
30 x 5	3.20	6	3584.000
12 x 10	2.56	6	3580.100
15 x 10	3.20	6	3581.100
20 x 10	4.27	6	3585.000
30 x 10	6.41	6	3586.000
40 x 10	8.55	3	3587.000
50 x 10	10.68	3	3588.000
60 x 10	12.82	3	3589.000
80 x 10	17.09	3	3590.000

B
2.7

Busbars

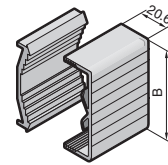


Busbar cover section

Contact hazard protection via full encapsulation of the busbars. May be cut to required length.

Material:
Thermally modified hard PVC.
Continuous operating temperature max. 91°C.
Fire protection corresponding to UL 94-V0.

For busbars mm	Width (B) mm	Packs of	Model No. SV
12 x 5 – 30 x 10	40.6	10 @ 1 m	3092.000
40 – 60 x 10	70.6	10 @ 1 m	3085.000



1



2

Busbar support

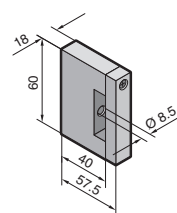
1 and 2-pole:

Material:
SV 3078.000
Fibreglass-reinforced, thermoplastic polyester (PBT).
Continuous operating temperature max. 140°C.
Fire protection corresponding to UL 94-V0.

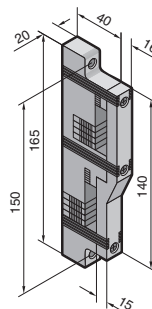
SV 9340.040
Polyamide (PA 6.6), 25 % fibreglass-reinforced.
Continuous operating temperature max. 130°C.
Fire protection corresponding to UL 94-V0.

Colour:
RAL 7035

1



2



Design	1 1-pole	2 2-pole
Bar centre distance	–	60 mm
For busbars E-Cu	12 x 5 – 30 x 5 mm ¹⁾ 30 x 10 mm	12 x 5 – 30 x 10 mm
Tightening torque	5 – 8 Nm	3 – 5 Nm
Assembly screw	1 – 3 Nm	1 – 3 Nm
Lid attachment	–	–
Packs of	4	4
Model No. SV	3078.000²⁾	9340.040³⁾

Accessories

Inserts for SV 3078.000

For busbars mm	Packs of	Model No. SV
30 x 5	12	3001.000
25 x 5	12	3002.000
20 x 10	24	3003.000
20 x 5	12	3004.000
15 x 5	12	3007.000
12 x 10	24	3008.000
12 x 5	12	3009.000

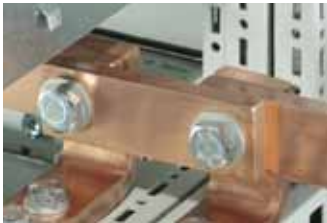
¹⁾ To accommodate sizes 12 x 5 – 30 x 5 mm, inserts are additionally required.

²⁾ PEN/N/PE support

³⁾ N/PE support



1



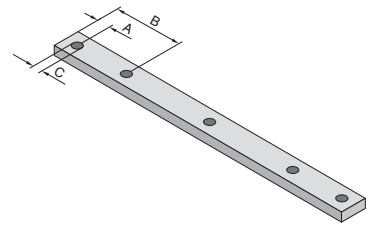
2

1 Busbars

made from E-Cu

Suitable for

- Direct installation in enclosures
- Busbar support
 - SV 9340.000/.010, see page 350
 - SV 9340.004, see page 350
 - SV 9342.014, see page 382
 - SV 3052.000, see page 391
 - SV 3073.000, see page 387
- PE/PEN combinations in conjunction with combination angle and baying bracket.



For enclosure width mm	Packs of	Length mm	30 x 5 mm	30 x 10 mm	Length mm	40 x 10 mm	80 x 10 mm
			Model No. SV	Model No. SV		Model No. SV	Model No. SV
300	2	265	9661.335	9661.330	292	9661.030	9661.130
400	2	365	9661.345	9661.340	392	9661.040	9661.140
600	2	565	9661.365	9661.360	592	9661.060	9661.160
800	2	765	9661.385	9661.380	792	9661.080	9661.180
1000	2	965	9661.305	9661.300	992	9661.000	9661.100
1200	2	1165	9661.325	9661.320	1192	9661.020	9661.120
A mm			15	15		20	20
B mm			–	–		158.5	158.5
C mm			Ø 11	Ø 11		Ø 14	Ø 14

Accessories

2 Baying bracket E-Cu	4	95	9661.355	9661.350	–	–	–
		–	–	–	88	9661.050	9661.150

PE/PEN combination angle

for PE/PEN combinations

The PE/PEN combination, comprised of busbars, combination angles and baying brackets, facilitates type-tested assembly to IEC 60 439-1.

The pre-manufactured combination angles and baying brackets, and the busbars customised to the individual enclosure width, facilitate inexpensive, time-saving assembly.

Material:

E-Cu

Supply includes:

Assembly parts.

Technical specifications:

Tested short-circuit resistance

PE/PEN combination

- 30 x 5 mm:
 I_{cw} 18 kA, 1 sec.
- PE/PEN combination
30 x 10 mm:
 I_{cw} 30 kA, 1 sec.
- PE/PEN combination
40/80 x 10 mm:
 I_{cw} 30 kA, 1 sec.;
 I_{cw} 42 kA, 1 sec. (when mounting
on bar profile frame)



Combination angle for	Packs of	For busbars mm			
		30 x 5	30 x 10	40 x 10	80 x 10
Insert type 2-4	4	9661.235	9661.230	9661.240	9661.240¹⁾
Other applications	4	9661.235	9661.230	9661.200	9661.200¹⁾

¹⁾ E-Cu 40 x 10 mm

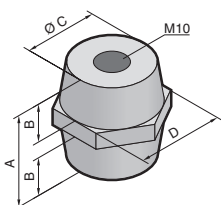


Base isolators

For configuring busbar systems with any given bar centre distances and for assembling PE or PEN bars.

Material:

Duroplastic polyester (UP resin).
Continuous operating temperature max. 135°C.



Rated operating voltage	1 kV	1 kV
Tensile strength	12 kN	13 kN
Torsional strength	75 Nm	90 Nm
Bending strength	6 kN	6 kN
Tightening torque	40 Nm	40 Nm
A mm	40	50
B mm	15	19
Ø C mm	32	42
D mm	SW 36	SW 50
Packs of	6	6
Model No. SV	3031.000	3032.000

Busbars

and accessories



Busbar connectors

For connecting busbars, no drilling required.

Material:

SV 9350.075

Top part: St 37, nickel-plated surface finish
Base: E-Cu

SV 9320.020/SV 9320.030

Top part: Sheet steel, zinc-plated, passivated
Contact plate: E-Cu, silver-plated

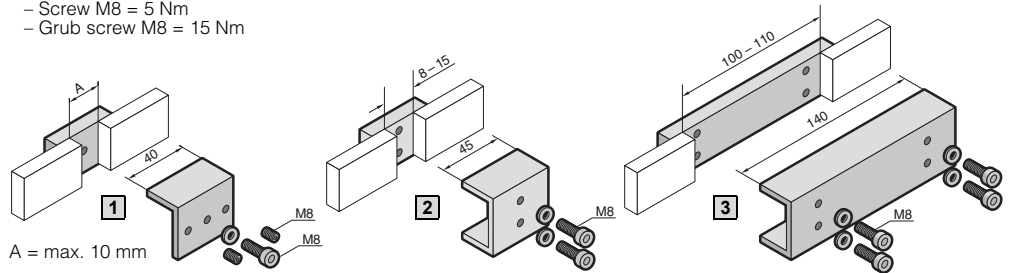
For busbars mm	Application of		Tightening torque	Packs of	Model No. SV
	Single connection	Baying connection ¹⁾			
12 x 5 – 15 x 10	1	–	5 Nm/15 Nm ²⁾	3	9350.075
20 x 5 – 30 x 10	2	–	20 Nm	3	9320.020
	–	3	20 Nm	3	9320.030

¹⁾ From enclosure to enclosure

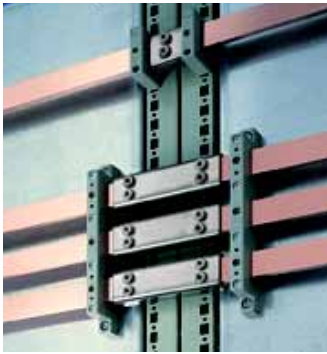
²⁾ Hex socket

– Screw M8 = 5 Nm

– Grub screw M8 = 15 Nm

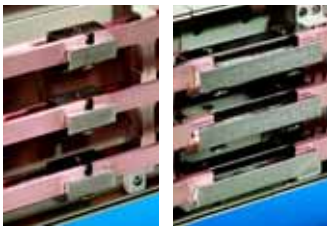


A = max. 10 mm



B
2.7

Busbars



PLS busbar connectors

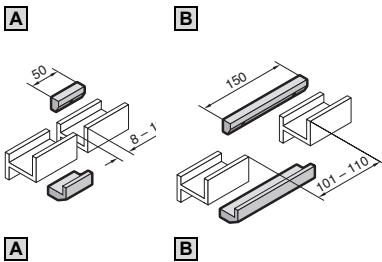
For connecting the PLS special busbars;
no drilling required.

Material:

E-Cu, nickel-plated

For	Packs of	Model No. SV for system	
		PLS 800	PLS 1600
A Single connection	3	3504.000	3514.000
B Baying connection ¹⁾	3	3505.000	3515.000
Tightening torque		10 – 15 Nm	15 – 20 Nm

¹⁾ From enclosure to enclosure (TS 8)



PLS expansion connectors

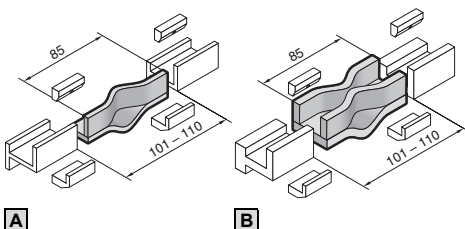
For thermal and mechanical compensation during connection of PLS special busbars from enclosure to enclosure (TS 8).

Material:

E-Cu

Packs of	Model No. SV for system	
	A PLS 800	B PLS 1600
3	9320.060	9320.070
Also required		
PLS busbar connectors ¹⁾	3504.000	3514.000

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



Note:

With a temperature increase of 30 K, the busbars will expand in length by around 0.5 mm/m. Consequently, the use of an expansion connector is recommended for busbar systems with lengths in excess of 3 m.