# Rittal – The System.

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# RiLine60

c UL US LISTED

## 60 mm system technology for the global market

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

FRIEDHELM LOH GROUP

# RiLine60

## Busbar systems 3 and 4 pole

Support + bars + contact hazard protection

- Flat copper bar system, see page 276 in HB 33
- PLS busbar system, see page 278 in HB 33
- Accessories, see page 310 in HB 33

## Connection system 3 and 4 pole

- Busbar connection adaptor, see page 280 in HB 33
- Connection clamps, see page 316 in HB 33
- Connection block, see page 317 in HB 33
- Accessories, see page 310 in HB 33

## Component adaptors 3 and 4 pole

- OM adaptor, see page 283 in HB 33
- Circuit-breaker component adaptor, see page 287 in HB 33
- Accessories, see page 318 in HB 33

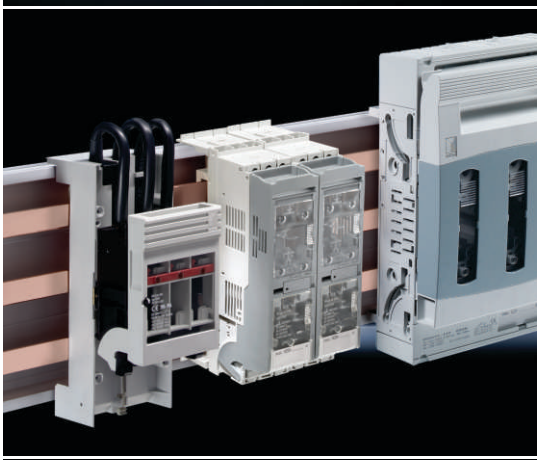
## Fuse elements 3 pole

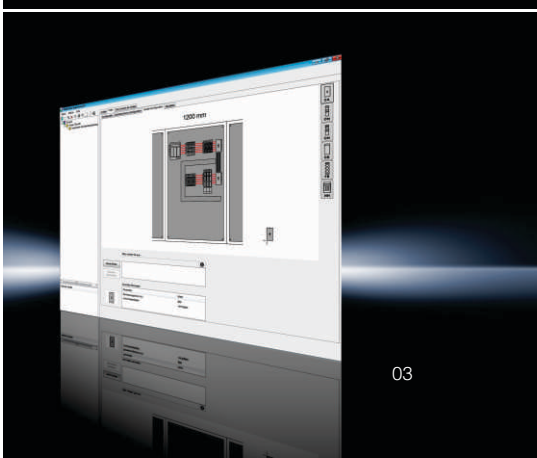
- Bus-mounting fuse bases, see page 294 in HB 33
- NH fuse-switch disconnectors, see page 296 in HB 33
- NH slimline fuse-switch disconnectors, see page 306 in HB 33
- Accessories, see page 323 in HB 33

## Rittal Power Engineering 6.0

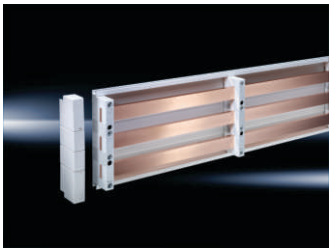
Model No. SV 3020.500, see page 523 in HB 33

- Configuration of RiLine60 busbar system
- Simple component selection, integral switchgear database
- Automatic calculation of rated currents and heat losses





## RiLine60 busbar system for flat copper bars (3/4-pole)



For feeder-circuits UL 508A, c UL us LISTED, file E191125

| Designation | Version | Bar centre distance mm | For busbars mm | Packs of | Model No. SV | Cata. 33, page |
|---|---|---|---|---|---|---|
| Busbar support | 3-pole | 60 | 15 x 5 – 30 x 10 | 4 | **9340.000*<br>9340.050** | 276 |
| Busbar support | 4-pole | 60 | 15 x 5 – 30 x 10 | 4 | **9340.004** | 276 |
| Busbar support 30 x 10 PLUS | 4-pole | 60 | 30 x 10 | 4 | **9342.014** | 276 |

**System components**

| Designation | Length mm | Packs of | Model No. SV 3-pole | Model No. SV 4-pole | Cata. 33, page |
|---|---|---|---|---|---|
| Base tray for SV 9340.050 | 500 | 2 | **9340.100** | – | 315 |
| | 700 | 2 | **9340.110** | – | 315 |
| | 900 | 2 | **9340.120** | – | 315 |
| | 1100 | 2 | **9340.130** | – | 315 |
| | 2400 | 1 | **9340.170*** | – | 315 |
| Base tray for SV 9340.004 | 1100 | 2 | – | **9340.134** | 315 |
| Base tray for SV 9342.014 | 1100 | 2 | – | **9342.134** | 315 |
| Cover section | 700 | 2 | **9340.200** | – | 315 |
| | 1100 | 2 | **9340.210** | **9340.214** | 315 |
| Base tray infill | 100 | 2 | **9340.140** | – | 315 |
| Support panel for cover section | | 5 | **9340.220** | **9340.224** | 315 |
| End covers for SV 9340.050 | | 2 | **9340.070** | – | 277 |
| End covers for SV 9340.004 | | 2 | – | **9340.074** | 276 |
| End covers for SV 9342.014 | | 2 | – | **9342.074** | 276 |

**Note:**
The use of a base tray is compulsory for UL applications.
*UL approval not available

## RiLine60 busbar system PLS 800 (3-pole)

For feeder-circuits UL 508A, c UL us LISTED, file E191125

| Designation | Version | Bar centre distance mm | For PLS busbars[1] Cross-section mm² | Packs of | Model No. SV | Cata. 33, page |
|---|---|---|---|---|---|---|
| Busbar support PLS 800 | 3-pole | 60 | 300 | 4 | **9341.000*<br>9341.050** | 279 |

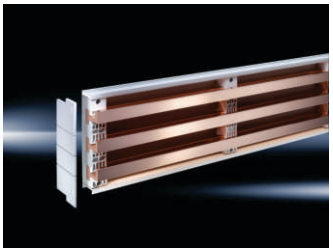
**System components**

| Designation | Length mm | Packs of | Model No. SV | Cata. 33, page |
|---|---|---|---|---|
| Base tray | 500 | 2 | **9341.100** | 279 |
| | 700 | 2 | **9341.110** | 279 |
| | 900 | 2 | **9341.120** | 279 |
| | 1100 | 2 | **9341.130** | 279 |
| | 2400 | 1 | **9341.170*** | 279 |
| Cover section | 700 | 2 | **9340.200** | 279 |
| | 1100 | 2 | **9340.210** | 279 |
| Base tray infill | 100 | 2 | **9341.140** | 279 |
| Support panel for cover section | | 5 | **9340.220** | 279 |
| End covers for SV 9341.050 | | 2 | **9341.070** | 279 |

[1] 5 mm bar thickness

**Note:**
The use of a base tray is compulsory for UL applications.
*UL approval not available

# RiLine60 busbar system PLS 1600 (3/4-pole)



For feeder-circuits UL 508A, c UL us LISTED, file E191125

| Designation | Version | Bar centre distance mm | For PLS busbars[1] Cross-section mm² | Packs of | Model No. SV | Cata. 33, page |
|---|---|---|---|---|---|---|
| Busbar support PLS 1600 | 3-pole | 60 | 900 | 4 | **9342.000*** **9342.050** | 279 |
| Busbar support PLS 1600 PLUS | 4-pole | 60 | 900 | 4 | **9342.004** | 279 |

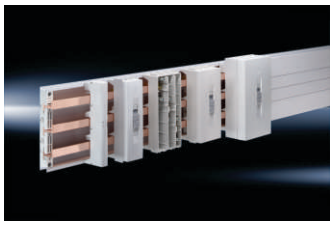
**System components**

| Designation | Length mm | Packs of | Model No. SV | | Cata. 33, page |
|---|---|---|---|---|---|
| | | | 3-pole | 4-pole | |
| Base tray | 500 | 2 | **9342.100** | – | 279 |
| | 700 | 2 | **9342.110** | – | 279 |
| | 900 | 2 | **9342.120** | – | 279 |
| | 1100 | 2 | **9342.130** | **9342.134** | 279 |
| | 2400 | 1 | **9342.170*** | – | 279 |
| Cover section | 700 | 2 | **9340.200** | – | 279 |
| | 1100 | 2 | **9340.210** | **9340.214** | 279 |
| Base tray infill | 100 | 2 | **9342.140** | – | 279 |
| Support panel for cover section | – | 5 | **9340.220** | **9340.224** | 279 |
| End covers for busbar supports | | 2 | **9342.070** | **9342.074** | 279 |

[1] 10 mm bar thickness

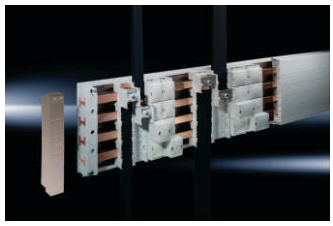
**Note:**
The use of a base tray is compulsory for UL applications.
*UL approval not available

# Busbar connection adaptor (3/4-pole)



For feeder-circuits UL 508A, c UL us LISTED, file E191125

| Rated current up to | Rated operating voltage | Connection of round conductors mm² (AWG) | Clamping area for laminated copper bars mm | Packs of | Model No. SV | | | Cata.33, page |
|---|---|---|---|---|---|---|---|---|
| | | | | | Outlet at top/bottom | Outlet at top | Outlet at bottom | |
| **3-pole** | | | | | | | | |
| 60 A | 600 V~ | 6 – 16 (AWG 10 – AWG 6) | – | 1 | – | **9342.200** | **9342.210** | 281 |
| 125 A | 600 V~ | 16 – 35 (AWG 6 – AWG 2) | 10 x 7.8 | 1 | **9342.220*** | **9342.230** | **9342.240** | 281 |
| 250 A | 600 V~ | 35 – 120 (AWG 2 – MCM 250) | 18.5 x 15.5 | 1 | **9342.250** | **9342.260** | **9342.270** | 280/281 |
| 600 A | 600 V~ | 95 – 300 (AWG 3/0 – MCM 600) | 33 x 20 | 1 | **9342.280*** | **9342.290** | **9342.300** | 281 |
| **4-pole** | | | | | | | | |
| 125 A | 600 V~ | 16 – 35 (AWG 6 – AWG 2) | 10 x 7.8 | 1 | **9342.224** | – | **9342.244** | 280/281 |
| 250 A | 600 V~ | 35 – 120 (AWG 2 – MCM 250) | 18.5 x 15.5 | 1 | **9342.254** | – | **9342.274** | 280/281 |



| Rated current up to | Rated operating voltage | Connection of round conductors mm² (AWG) | Clamping area for laminated copper bars mm | | Packs of | Model No. SV | | Cata. 33, page |
|---|---|---|---|---|---|---|---|---|
| | | | for 5 mm bar thickness | for 10 mm bar thickness | | Outlet at top/bottom | | |
| | | | | | | Busbar connection adaptor (3 x 1-pole) | Expansion set for 4-pole configuration | |
| **3-/4-pole** | | | | | | | | |
| 800 A | 600 V~ | 95 – 300 (AWG 3/0 – MCM 600) | 33 x 27 | 33 x 22 | 1 set | **9342.310** | **9342.314[1]** | 282 |
| 1600 A | 600 V~ | – | 65 x 27 | 65 x 22 | 1 set | **9342.320** | **9342.324[1]** | 282 |

[1] Packs of = 1

**Note:**
*UL approval not available

## OM adaptor/OM support (3-pole)

For feeder-circuits UL 508A, c UL us LISTED, file E191125

| Version | Construction width mm | Rated current up to | Rated operating voltage | Connection cables[1] | Connection of round conductors mm² | Support rails Height mm | Support rails Qty. | Packs of | Model No. SV | Cata. 33, page |
|---|---|---|---|---|---|---|---|---|---|---|
| | 45 | 25 A | 600 V~ | AWG 12 | – | 10 | 1 | 1 | **9340.310**[2] | 283 |
| | 45 | 25 A | 600 V~ | AWG 12 | – | 10 | 1 | 1 | **9340.340** | 283 |
| | 45 | 25 A | 600 V~ | AWG 12 | – | 10 | 1 | 1 | **9340.370**[3] | 283 |
| | 45 | 32 A | 600 V~ | AWG 10 | – | 10 | 1 | 1 | **9340.350** | 283 |
| | 45 | 32 A | 600 V~ | AWG 10 | – | 10 | 2 | 1 | **9340.380** | 283 |
| | 45 | 32 A | 690 V~ | AWG 10 | – | 10 | 2 | 1 | **9340.390** | 283 |
| OM adaptor | 55 | 32 A | 600 V~ | AWG 10 | – | 10 | 1 | 1 | **9340.460** | 283 |
| | 55 | 32 A | 600 V~ | AWG 10 | – | 10 | 2 | 1 | **9340.470** | 283 |
| | 75 | 40 A | 600 V~ | AWG 8 | – | 7.5 | 2 | 1 | **9340.710**[4] | 284 |
| | 55 | 65 A | 600 V~ | AWG 6 | – | 10 | 1 | 1 | **9340.410**[2] | 284 |
| | 55 | 65 A | 600 V~ | AWG 6 | – | 10 | 1 | 1 | **9340.430** | 284 |
| | 55 | 65 A | 600 V~ | AWG 6 | – | 10 | 2 | 1 | **9340.450** | 284 |
| | 75 | 65 A | 600 V~ | AWG 6 | – | 7.5 | 1 | 1 | **9340.700**[4] | 284 |
| | 55 | 40 A | 690 V~ | AWG 8 | – | 10 | 1 | 1 | **9340.720** | 284 |
| | 55 | 40 A | 690 V~ | AWG 8 | – | 10 | 2 | 1 | **9340.730** | 284 |
| OM Premium adaptor | 45 | 32 A | 690 V~ | – | 1.5 – 6 | 10 | 2 | 1 | **9340.560** | 285 |
| | 45 | 25 A | 600 V~ | – | 1.5 – 4 | 10 | 1 | 1 | **9340.900**[5] | 285 |
| | 45 | 25 A | 600 V~ | – | 1.5 – 4 | 10 | 2 | 1 | **9340.910**[6] | 285 |
| | 55 | 25 A | 600 V~ | – | 1.5 – 4 | 10 | 2 | 1 | **9340.930**[6] | 285 |
| OM support | 45 | – | 690 V~ | | – | 10 | 1 | 1 | **9340.250** | 286 |
| | 45 | – | 690 V~ | – | – | 10 | – | 1 | **9340.260**[3] | 286 |
| | 55 | – | 690 V~ | – | – | 10 | 1 | 1 | **9340.270** | 286 |
| **Accessories** | | | | | | | | | | |
| Connection pin | | | | | | | | 20 | **9340.280** | 320 |
| Insert strip 10 mm | | | | | | | | 2 | **9340.290** | 319 |

[1] AWG = American Wire Gauges
AWG12 = 3.31 mm² ≙ 4 mm²
AWG10 = 5.26 mm² ≙ 6 mm²
AWG 08 = 8.37 mm² ≙10 mm²
AWG 06 = 13.3 mm² ≙16 mm²

[2] Without support frame
[3] With pin block
[4] Without support frame, with insert strips
[5] With sub-unit and pin block
[6] With connector outlet

## Circuit-breaker component adaptor (3-pole)

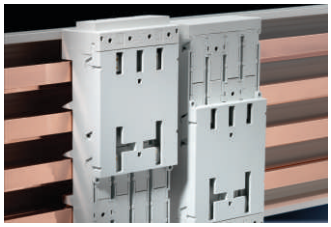
For feeder-circuits UL 508A, c UL us LISTED, file E191125

| Construction width mm | Rated current up to | Rated operating voltage | Connection of round conductors mm² (AWG) | Clamping area for laminated copper bars mm | Packs of | Model No. SV Cable outlet top[1] | Model No. SV Cable outlet bottom[1] | Cata. 33, page |
|---|---|---|---|---|---|---|---|---|
| 72 | 100 A | 600 V~ | 10 – 35 (AWG 6 – AWG 2) | 10 x 7.8 | 1 | **9342.400** | **9342.410** | 287 |
| 90 | 125 A | 600 V~ | 35 – 120 (AWG 2 – MCM 250) | 18.5 x 15.5 | 1 | **9342.540** | **9342.550** | 287 |
| 90 | 160A | 600 V~ | 35 – 120 (AWG 2 – MCM 250) | 18.5 x 15.5 | 1 | **9342.500*** | **9342.510*** | 287 |
| 105 | 250 A | 600 V~ | 35 – 120 (AWG 2 – MCM 250) | 18.5 x 15.5 | 1 | **9342.600** | **9342.610** | 288 |
| 140 | 600 A | 600 V~ | – | 32 x 10[2] | 1 | **9342.700** | **9342.710** | 288 |
| **Accessories** | | | | | | | | |
| Insert strip 25 mm, for SV 9342.700/.710 | | | | | 4[3] | **9342.720** | | 288 |

[1] Switch outlet or outgoing cable
[2] Via M10 screw terminal
[3] ≙ 1 set

**Note:**
*UL approval not available

## Circuit-breaker component adaptor (4-pole)

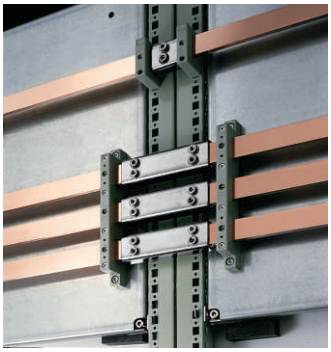


For feeder-circuits UL 508A, c UL us LISTED, file E191125

| Construction width mm | Rated current up to | Rated operating voltage | Connection of round conductors mm² (AWG) | Clamping area for laminated copper bars mm | Packs of | Model No. SV | | Cata. 33, page |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Cable outlet top[1] | Cable outlet bottom[1] | |
| 120 | 125 A | 600 V~ | 35 – 120 (AWG 2 – MCM 250) | 18.5 x 15.5 | 1 | **9342.504** | **9342.514** | 289 |
| 140 | 250 A | 600 V~ | 35 – 120 (AWG 2 – MCM 250) | 18.5 x 15.5 | 1 | **9342.604** | **9342.614** | 289 |

[1] Switch outlet or outgoing cable

## Busbar connectors



For connecting square busbars, no drilling required.

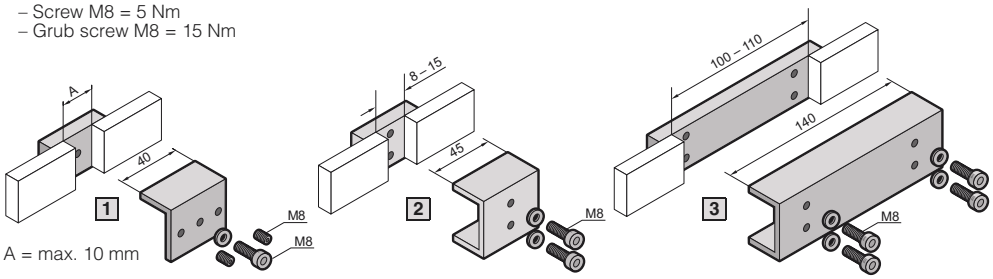
**Material:**

**SV 9350.075**
Top part: St 37, nickel-plated surface finish
Contact plate: E-Cu, nickel-plated surface finish

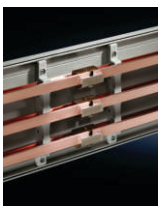
**SV 9320.020/SV 9320.030**
Top part: Sheet steel, zinc-plated, passivated
Contact plate: E-Cu, silver-plated

| For busbars mm | Application | | Tightening torque | Packs of | Model No. SV |
|---|---|---|---|---|---|
| | Single connection | Bayed 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** |

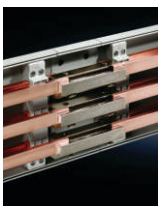
[1] From enclosure to enclosure
[2] Hex socket
– Screw M8 = 5 Nm
– Grub screw M8 = 15 Nm



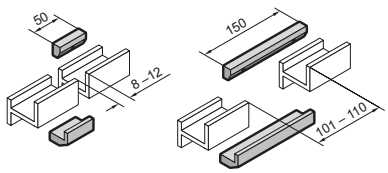

## PLS busbar connectors



A



B




A B

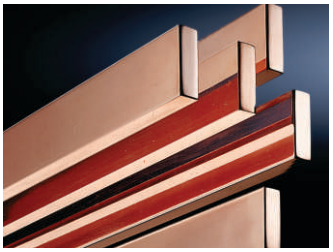
For connecting the PLS special busbars; no drilling required.

**Material:** E-Cu, nickel-plated

| Application | 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)

## Busbars



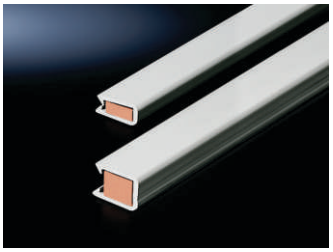
### Busbars E-Cu

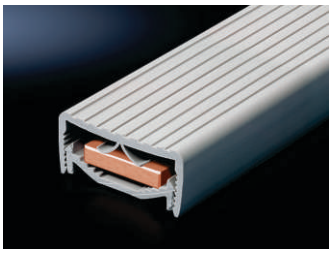
To DIN EN 13 601.
Length: 2400 mm/bar.

**Technical information:**
Available on the Internet.

| Dimensions mm | Rated current [1] up to | Rated current for UL 508 applications | Packs of | Model No. SV | Page |
|---|---|---|---|---|---|
| **E-Cu** | | | | | |
| 12 x 5 | 210 A | X | 1 | **3580.000** | 277 |
| 15 x 5 | 340 A | 175 A | 1 | **3581.000** | 277 |
| 20 x 5 | 260 A | 230 A | 1 | **3582.000** | 277 |
| 25 x 5 | 360 A | 290 A | 1 | **3583.000** | 277 |
| 30 x 5 | 319 A | 350 A | 1 | **3584.000** | 277 |
| 12 x 10 | 497 A | X | 1 | **3580.100** | 277 |
| 15 x 10 | 384 A | 350 A | 1 | **3581.100** | 277 |
| 20 x 10 | 447 A | 465 A | 1 | **3585.000** | 277 |
| 30 x 10 | 800 A | 700 A | 1 | **3586.000** | 277 |
| 40 x 10 | – | 920 A | 1 | **3587.000** | 311 |
| 50 x 10 | – | 1100 A | 1 | **3588.000** | 311 |
| 60 x 10 | – | 1270 A | 1 | **3589.000** | 311 |
| 80 x 10 | – | 1600 A | 1 | **3590.000** | 311 |
| 100 x 10 | – | 1900 A | 1 | **3590.010** | 311 |
| **E-Cu tin-plated[1]** | | | | | |
| 30 x 5 | Yes | | 6 | **3584.200** | 311 |
| 30 x 10 | Yes | | 6 | **3586.200** | 311 |
| **Accessories** | | | | | |
| Busbar connectors for busbars mm | 12 x 5 – 15 x 10 (single connection) | | 3 | 9350.075 | 313 |
| | 20 x 5 – 30 x 10 (single connection) | | 3 | 9320.020 | 313 |
| | 20 x 5 – 30 x 10 (bayed connection) | | 3 | 9320.030 | 313 |
| Busbar cover section for busbars mm | 12/15 x 5 | | 4 | 9350.010 | 311 |
| | 12/15 x 10 | | 4 | 9350.060 | 311 |
| | 12 x 5 – 30 x 10 | | 10 | 3092.000 | 311 |
| | 40 – 60 x 10 | | 10 | 3085.000 | 311 |

[1] Extended delivery times.





### Busbar cover sections

Contact hazard protection via covering of the busbars. May be cut to required length.
Length: 1000 mm/section.

**Material:**
Thermally modified hard PVC.
Fire protection corresponding to UL 94-V0

**Colour:**
RAL 7035

**Note:**
Contact hazard protection, for more solutions see page 315.

**Detailed drawings:**
Available on the Internet.

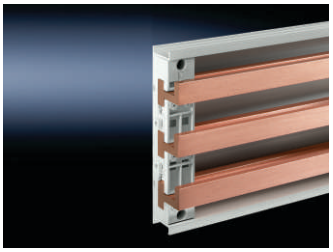
| For busbars mm | Approvals | Packs of | Model No. SV |
|---|---|---|---|
| 12/15 x 5 | – | 4 | **9350.010** |
| 12/15 x 10 | – | 4 | **9350.060** |
| 12 x 5 – 30 x 10 | | 10 | **3092.000** |
| 40 – 60 x 10 | – | 10 | **3085.000** |

### Inserted screw nuts M12

Self-holding nuts with knurled ring for busbars E-Cu.
Hole diameter: 14.5 mm.

| Packs of | Model No. SV |
|---|---|
| 30 | **3591.060** |

# Busbars



## PLS special busbars E-Cu

**Technical information:**
Available on the Internet.

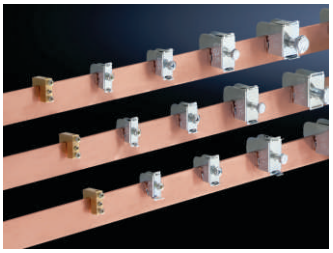
| **For system PLS 800, bar thickness 5 mm, bar cross-section 300 mm²** | | | | | | |
|---|---|---|---|---|---|---|
| For enclosure width mm | Length mm | E-Cu tin-plated[1)] | Approvals | Packs of | **Model No. SV** | Page |
| 600 | 495 | – | | 1 | **3524.000** | 312 |
| 600 | 495 | Yes | – | 1 | **3524.200** | 312 |
| 800 | 695 | – | | 1 | **3525.000** | 312 |
| 800 | 695 | Yes | – | 1 | **3525.200** | 312 |
| 1000 | 895 | – | | 1 | **3525.010** | 312 |
| 1000 | 895 | Yes | – | 1 | **3525.210** | 312 |
| 1200 | 1095 | – | | 1 | **3526.000** | 312 |
| 1200 | 1095 | Yes | – | 1 | **3526.200** | 312 |
| variable | 2400 | – | | 1 | **3509.000** | 312 |
| variable | 2400 | Yes | – | 1 | **3509.200** | 312 |
| **Accessories** | | | | | | |
| PLS busbar connector (single connection) | | | | 3 | 3504.000 | 313 |
| PLS busbar connector (bayed connection) | | | | 3 | 3505.000 | 313 |
| PLS expansion connectors | | | | 3 | 9320.060 | 313 |

[1)] Extended delivery times.

| **For system PLS 1600, bar thickness 10 mm, bar cross-section 900 mm²** | | | | | | |
|---|---|---|---|---|---|---|
| For enclosure width mm | Length mm | E-Cu tin-plated[1)] | Approvals | Packs of | **Model No. SV** | Page |
| 600 | 495 | – | | 1 | **3527.000** | 312 |
| 600 | 495 | Yes | – | 1 | **3527.200** | 312 |
| 800 | 695 | – | | 1 | **3528.000** | 312 |
| 800 | 695 | Yes | – | 1 | **3528.200** | 312 |
| 1000 | 895 | – | | 1 | **3528.010** | 312 |
| 1000 | 895 | Yes | – | 1 | **3528.210** | 312 |
| 1200 | 1095 | – | | 1 | **3529.000** | 312 |
| 1200 | 1095 | Yes | – | 1 | **3529.200** | 312 |
| variable | 2400 | – | | 1 | **3516.000** | 312 |
| variable | 2400 | Yes | – | 1 | **3516.200** | 312 |
| **Accessories** | | | | | | |
| PLS busbar connector (single connection) | | | | 3 | 3514.000 | 313 |
| PLS busbar connector (bayed connection) | | | | 3 | 3515.000 | 313 |
| PLS expansion connectors | | | | 3 | 9320.070 | 313 |

[1)] Extended delivery times.

# Connection system



## Conductor connection clamps

**Material:**
Sheet steel, zinc-plated, passivated
(SV 3450.500 – SV 3459.500)
Brass
(SV 3550.000/SV 3555.000)

**Accessories:**

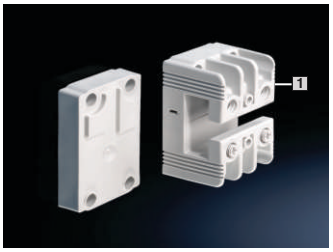
Laminated copper bars,
see page 314.

**Technical information:**
Available on the Internet.

**Detailed drawings:**
Available on the Internet.

| For bar thickness mm | Connection of round conductors[1)] mm² | Clamping area for laminated copper bars W x H mm | Approvals | Packs of | **Model No. SV** |
|---|---|---|---|---|---|
| 3 –5 | 1 – 4 | – | | 15 | **3550.000** |
| 5 | 1 – 4 | – | | 15 | **3450.500** |
| 5 | 2.5 –16 | 8 x 8 | | 15 | **3451.500** |
| 5 | 16 – 50 | 10.5 x 11 | | 15 | **3452.500** |
| 5 | 35 – 70 | 16.5 x 15 | | 15 | **3453.500** |
| 5 | 70 – 185 | 22.5 x 20 | | 15 | **3454.500** |
| 6 –10 | 1 – 4 | – | | 15 | **3555.000** |
| 10 | 1 – 4 | – | | 15 | **3455.500** |
| 10 | 2.5 – 16 | 8 x 8 | | 15 | **3456.500** |
| 10 | 16 – 50 | 10.5 x 11 | | 15 | **3457.500** |
| 10 | 35 – 70 | 16.5 x 15 | | 15 | **3458.500** |
| 10 | 70 – 185 | 22.5 x 20 | | 15 | **3459.500** |

# Busbar supports/base isolators




## Busbar supports 1- and 2-pole

**Material:**
Polyamide (PA 6.6).
Fire protection corresponding to UL 94-V0

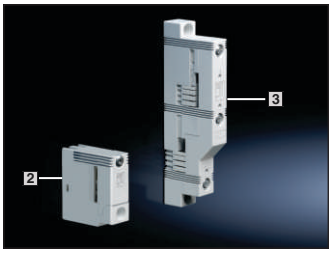
**Colour:**
RAL 7035

**Supply includes:**
**SV 9342.030**
Including raised section for stepped configuration of the PLS busbars.

**Note:**
**SV 9340.030/SV 9342.030**
The busbar supports may be bayed with 60 mm bar centre distance for the configuration of multi-pole systems.

**Technical information:**
Available on the Internet.

**Detailed drawings:**
Available on the Internet.




| Design | Packs of | 1 | 2 | 3 | |
|---|---|---|---|---|---|
| Number of poles | | 1-pole | 1-pole | 2-pole | |
| Bar centre distance mm | | – | – | 60 | |
| For busbars E-Cu | | PLS 1600 | – | – | 312 |
| | | – | 12 x 5/10[1], 15 x 5 – 30 x 10 mm | 12 x 5 – 30 x 10 mm | 311 |
| PEN/N/PE support | | | | | |
| N/PE support | | – | – | | |
| **Model No. SV** | 4 | **9342.030** | **9340.030** | **9340.040** | |
| **Accessories** | | | | | |
| Spacers | 12 | – | 9340.090 | – | 310 |
| Captive nuts M5[2] | 50 | – | 4166.000 | 4166.000 | 665 |

[1] If 12 x 5/10 mm busbars are used, the spacer SV 9340.090 is additionally required.

[2] For attaching the busbar support to the TS frame section and punched sections with mounting flanges with rectangular system punchings 12.5 x 10.5 mm.

## Base isolators

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

**Material:**
Duroplastic polyester (UP resin)

**Technical information:**
Available on the Internet.

**Detailed drawings:**
Available on the Internet.

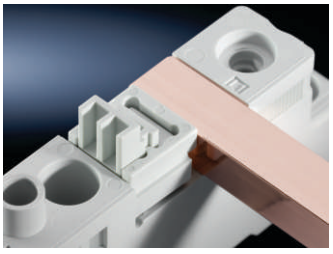
| | | |
|---|---|---|
| Rated operating voltage | 1 kV | 1 kV |
| Tensile strength | 12 kN | 13 kN |
| Torsional strength | 75 Nm | 90 Nm |
| Bending strength | 6 kN | 6 kN |
| Height mm | 40 | 50 |
| Thread | M10 | M10 |
| Packs of | 6 | 6 |
| **Model No. SV** | **3031.000** | **3032.000** |

## Spacers

**for RiLine60 busbar supports (flat busbar system)**

For adapting 12 x 5 and 12 x 10 mm size busbars.
For busbar supports
- SV 9340.030 (1-pole), see page 310.
- SV 9340.000/.010 (3-pole), see page 276.
- SV 9340.004 (4-pole), see page 276.

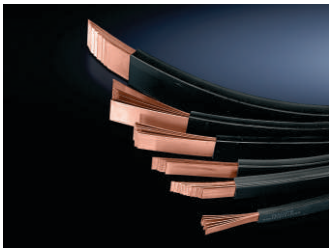
| Packs of | **Model No. SV** |
|---|---|
| 12 | **9340.090** |



**Material:**
Polyamide (PA 6.6).
Fire protection corresponding to UL 94-V0

**Colour:**
RAL 7035

# Laminated copper bars



## Laminated copper bars

Length: 2000 mm/bar.

**Material:**
**Cu lamina**
High-purity electrolyte copper F20

**Insulation**
High-strength vinyl compound
Expansion 370%
Temperature range: –30°C to +105°C
Fire protection corresponding to UL 94-V0
Dielectric strength: 20 kV/mm

**Short-circuit resistance diagram:**
Available on the Internet.

**Technical information:**
Available on the Internet.

| Configuration[1] mm | $I_n$ for 70 K[2] | $I_n$ for 50 K[2] | $I_n$ for 30 K[2] | Packs of | Model No. SV |
|---|---|---|---|---|---|
| 8 x 6 x 0.5 | 195 A | 165 A | 125 A | 1 | **3565.015** |
| 6 x 9 x 0.8 | 285 A | 240 A | 180 A | 1 | **3565.005** |
| 4 x 15.5 x 0.8 | 330 A | 275 A | 210 A | 1 | **3567.005** |
| 6 x 15.5 x 0.8 | 415 A | 350 A | 265 A | 1 | **3568.005** |
| 10 x 15.5 x 0.8 | 575 A | 480 A | 365 A | 1 | **3569.005** |
| 5 x 20 x 1 | 525 A | 435 A | 330 A | 1 | **3570.005** |
| 5 x 24 x 1 | 605 A | 510 A | 385 A | 1 | **3571.005** |
| 10 x 24 x 1 | 920 A | 770 A | 585 A | 1 | **3572.005** |
| 5 x 32 x 1 | 770 A | 645 A | 485 A | 1 | **3573.005** |
| 10 x 32 x 1 | 1155 A | 965 A | 730 A | 1 | **3574.005** |
| 5 x 40 x 1 | 930 A | 780 A | 590 A | 1 | **3575.005** |
| 10 x 40 x 1 | 1370 A | 1145 A | 865 A | 1 | **3576.005** |
| 5 x 50 x 1 | 1125 A | 940 A | 710 A | 1 | **3577.005** |
| 10 x 50 x 1 | 1635 A | 1365 A | 1030 A | 1 | **3578.005** |
| 10 x 63 x 1 | 1950 A | 1610 A | 1230 A | 1 | **3579.005** |

[1] Number of lamina x lamina width x lamina thickness
[2] The conductor temperature of the laminated copper bar is derived from the sum total of the ambient temperature and the temperature increase.

**Example:**
SV 3565.000 carrying 220 A, i.e. the temperature increases by 30 K. At an ambient temperature of 35°C, this produces a resultant conductor temperature of 35°C + 30 K = 65°C.

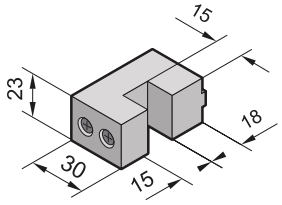
## Universal support

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

**Material:**
Fibreglass-reinforced, thermoplastic polyester (PBT)
Fire protection corresponding to UL 94-V0

**Colour:**
RAL 7035

**Supply includes:**
Screws and “U” nuts for mounting on PS punched rails.




| Packs of | Model No. SV |
|---|---|
| 3 | **3079.000** |

**Accessories:**

PS punched rails,
see page 651.

**Short-circuit resistance diagram:**
Available on the Internet.

**Detailed drawings:**
Available on the Internet.

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