## RiLine busbar systems (60 mm)

# Connection adaptors

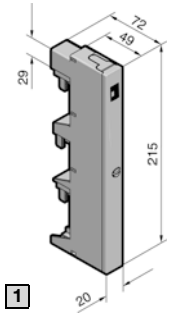
**Rated current max. 63 – 800 A**

For 60 mm busbar systems

**Note:**
- For technical information on the connection of conductors and connectors, see chapter 2-101, page 4
- 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 SV 9340.050, SV 9341.050, SV 9342.050

**Approvals:**

E191125 E191125



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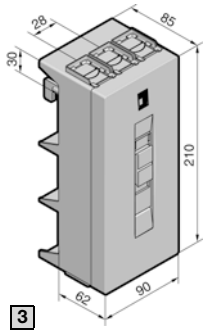

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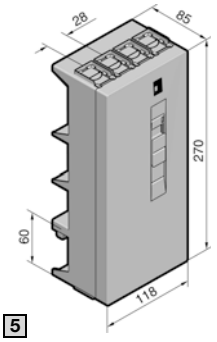

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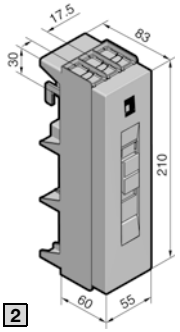

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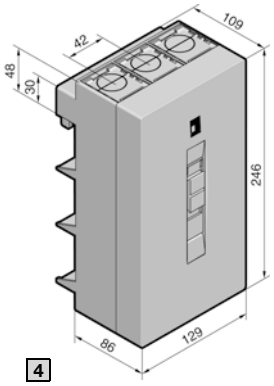

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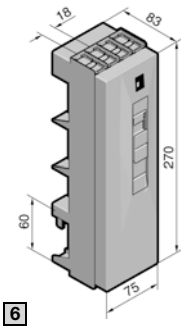


6

| Version | | 3-pole | | | | 4-pole | |
|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 |
| Rated current max. | IEC | 63 A | 125 A[1] | 250 A[1] | 800 A | 125 A | 250 A |
| | UL | 60 A | 125 A | 250 A | 600 A | 125 A | 250 A |
| Rated operating voltage | IEC | 690 V AC | 690 V AC | 690 V AC | 690 V AC | 690 V AC | 690 V AC |
| | UL | 600 V AC | 600 V AC | 600 V AC | 600 V AC | 600 V AC | 600 V AC |
| | | **Model No. SV** | | | | **Model No. SV** | |
| Cable outlet | Top/bottom | – | **9342.220** | **9342.250** | **9342.280** | **9342.224** | **9342.254** |
| | Top | **9342.200** | – | – | – | – | – |
| | Bottom | **9342.210** | **9342.240** | **9342.270** | **9342.300** | – | – |
| Rated operating voltage IEC | L1 + L2 | 1000 V DC | 1000 V DC | 1000 V DC | 1000 V DC | – | – |
| | L1 + L3 | 1500 V DC | 1500 V DC | 1500 V DC | 1500 V DC | – | – |
| | | **Model No. SV** | | | | **Model No. SV** | |
| Cable outlet at the bottom | | **9342.210** | **9342.240** | **9342.270** | **9342.300** | – | – |
| **Assembly data for applications to IEC (EN)** | | | | | | | |
| Tightening torque Nm<br>– Bar attachment<br>– Terminal screw | | 2<br>2.5 | 2<br>3 | 6<br>12 | 6<br>14 | 2<br>3 | 6<br>12 |
| Conductor connection Cu mm²<br>– f with wire end ferrule<br>– re<br>– rm | | 2.5 – 10<br>2.5 – 10<br>2.5 – 10 | 10 – 25<br>–<br>16 – 35 | 35 – 120<br>–<br>35 – 120 | 95 – 185<br>–<br>95 – 300 | 10 – 25<br>–<br>16 – 35 | 35 – 120<br>–<br>35 – 120 |
| Clamping area for laminated copper bars, W x H mm | | – | 10 x 7.8 | 18.5 x 15.5 | 33 x 20 | 10 x 7.8 | 18.5 x 15.5 |
| **Assembly data for applications to UL** | | | | | | | |
| Tightening torque Nm<br>– Bar attachment<br>– Terminal screw | | 2<br>5 | 2<br>5 | 6<br>12 | 6<br>18 | 2<br>5 | 6<br>12 |
| Conductor connection Cu | | AWG 6 – 10 | AWG 2 – 6 | AWG 2 – MCM 250 | AWG 4/0 – MCM 600 | AWG 2 – 6 | AWG 2 – MCM 250 |
| Connection of laminated copper bars mm | | – | – | – | 10 x 32 x 1[2] | – | – |
| **Material specifications** | | | | | | | |
| Contact track: E-Cu, nickel-plated | | ■ | ■ | ■ | ■ | ■ | ■ |
| Conductor connection clamp | Sheet steel, zinc-plated | ■ | ■ | – | – | ■ | – |
| | Cast brass, nickel-plated | – | – | ■ | ■ | – | ■ |

[1] Higher rated currents for laminated copper bars available on request
[2] Number of lamina x lamina width x lamina thickness

# Connection adaptors

**Rated current max. 600 – 1600 A**

For 60 mm busbar systems

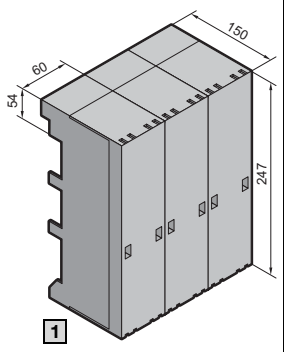
**Note:**
- For technical information on the connection of conductors and connectors, see chapter 2-101, page 4
- UL approval only applies in conjunction with AC application
- The rated operating voltage for DC applications depends on the busbar arrangement in the busbar support SV 9340.050, SV 9341.050, SV 9342.050

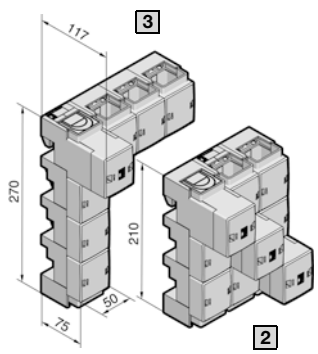
**SV 3439.010**
When connecting round conductors 300 mm² with ring terminals, the terminal clamps fitted as standard in the busbar connection adaptors must be replaced with screws and/or bolts M10 (tightening torque 20 Nm).

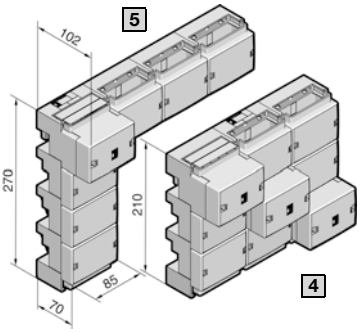
**Approvals:**

c UL us LISTED E191125

E191125




| Version | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| | | 3-pole | 3-pole | Expansion set for 4-pole configuration | 3-pole | Expansion set for 4-pole configuration |
| Rated current max. | IEC | 600 A | 800 A | 800 A | 1600 A | 1600 A |
| | UL | – | 700 A | 700 A | 1400 A | 1400 A |
| Rated operating voltage | IEC | 690 V AC | 690 V AC | 690 V AC | 690 V AC | 690 V AC |
| | UL | – | 600 V AC | 600 V AC | 600 V AC | 600 V AC |
| Rated operating voltage IEC | L1 + L2 | – | 1000 V DC | – | 1000 V DC | – |
| | L1 + L3 | – | 1500 V DC | – | 1500 V DC | – |
| | | **Model No. SV** | **Model No. SV** | | **Model No. SV** | |
| Cable outlet top/bottom | | **3439.010** | **9342.310** (UL) | **9342.314** (UL) | **9342.320** (UL) | **9342.324** (UL) |
| **Assembly data for applications to IEC (EN)** | | | | | | |
| Tightening torque Nm<br>– Bar attachment<br>– Terminal screw | | <br>20<br>15 | | <br>–<br>14 | | <br>–<br>20 |
| Conductor connection Cu mm²<br>– f with wire end ferrule<br>– rm | | <br>35 – 240<br>35 – 240 | | <br>95 – 185[1)]<br>95 – 300 | | <br>–<br>– |
| Clamping area for laminated copper bars W x H mm<br>– For 5 mm bar thickness<br>– For 10 mm bar thickness | | <br>24 x 21<br>24 x 21 | | <br>33 x 26<br>33 x 21 | | <br>65 x 27<br>65 x 22 |
| **Assembly data for applications to UL** | | | | | | |
| Tightening torque Nm<br>– Terminal screw | | – | | 16.5 | | 22 |
| Conductor connection Cu | | – | | AWG 4/0 – MCM 600 | | – |
| Connection of laminated copper bars mm | | – | | 10 x 32 x 1[2)] | | 10 x 63 x 1[2)] |
| **Material specifications** | | | | | | |
| Contact track: E-Cu, silver-plated | | ■ | | ■ | | ■ |
| Conductor connection clamp | Cast brass, nickel-plated | ■ | | ■ | | – |
| | Stainless steel | – | | – | | ■ |

[1)] Fine-wire without wire end ferrule up to 240 mm². Tightening torque 20 Nm
[2)] Number of lamina x lamina width x lamina thickness