When it comes to future-oriented solutions for modern low-voltage power distribution, you are most definitely on the right track with **Rittal busbar systems**. Rittal RILine60, the fascinating 60 mm system of the future – assembly-friendly, time-saving, individual and modular. Key features of the new Rittal RILine60 busbar system include: Versatile application options, individual modularity, and reliability thanks to type-testing. **Rittal Ri4Power is the new name for high-current power distributors, distribution enclosures and switchgear with form separation** under a single roof – in accordance with the worldwide standard (IEC 60 439-1).
Power Distribution

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Rittal RiLine60 busbar systems

Overview

Time-saving assembly, versatile applications and individual modularity are the winning features of the Rittal RiLine60 busbar system. Simply insert the bars from above, secure, and it’s done! This is how quickly you can mount flat copper cross-sections in one support, with no need for any inserts!

RiLine60 bar systems

Busbar support for flat bars with integral cross-section adaptation
Height compensation with 5 mm bars is achieved via slides.

An integral locating block automatically adapts to widths of 15, 20, 25 or 30 mm. No other accessories required.

Unrestricted top mounting of the PLS busbar support with power distribution components.

RiLine60 adaptor system

System separation of the adaptor section and support frame translates into service-friendly device configuration.

Sliding block concept for circuit-breaker adaptors up to 630 A. As a result, mounting of all standard power circuit-breakers is now much simpler and faster.

The multi-functional adaptors use modern, practical technology to set standards in terms of contact reliability, assembly rationalisation and configuration diversity of switchgear.

RiLine60 fusible elements

Bus-mounting fuse bases for snap-on mounting
The three-pole components ensure reliable-contact, shake-proof connection with the bus-bars.

RiLine NH isolators
The contact swivel feet have one outstanding function: The cable outlet can be switched from bottom to top in a matter of seconds.

NH fused isolator
With a build width of just 50 mm, it sets new standards in compact, space-saving configuration.
### Busbar systems

#### Overview

**Mini-PLS busbar systems up to 250 A (40 mm)**

Optimum space utilisation and rapid assembly of all components via plug and lock connection from the front.

Top-mounting over the entire surface of the busbar support and busbar connector with system components.

Contact hazard protection thanks to all-round encapsulation with base tray, cover section and end cover.

**Busbar systems up to 360 A (40 mm)**

Busbar supports with integral inserts. Simple component assembly via insertion or snap-mounting.

All-round contact hazard protection analogous to the Rittal Mini-PLS system.

Time-saving assembly of standard commercially available power circuit-breakers via pre-configured connection cables.

**Busbar systems up to 1250 A (100 mm), 1600 A (185 mm)**

Busbar system with 100 mm centre-to-centre spacing

Suitable for the assembly of NH fused isolators size 00 and NH on-load isolators sizes 1 to 3.

Busbar system with 185 mm centre-to-centre spacing

The special design of the support allows seamless top-mounting in the support section with NH fused isolators sizes 00 to 3.

**Busbar systems up to 2500 A/3000 A (150 mm)**

These two busbar supports with 150 mm centre-to-centre spacing are suitable for electricity transmission and distribution.

Spacing pieces allow a stepped configuration of the busbars.
Busbar systems up to 250 A (40 mm)

Mini-PLS busbar supports (3-pole)

Material:
Polyamide (PA 6.6), 30 % fibreglass-reinforced.
Continuous operating temperature max. 140°C.
Fire protection corresponding to UL 94-V0.

Colour:
RAL 7035
Short-circuit protection diagram, see page 1228.

<table>
<thead>
<tr>
<th>Design</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of poles</td>
<td>3-pole</td>
</tr>
<tr>
<td>Bar centre distance</td>
<td>40 mm</td>
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<tr>
<td>Model No. SV</td>
<td>4</td>
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<table>
<thead>
<tr>
<th>Accessories</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>End covers for contact hazard protection on the sides</td>
<td>2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Mini-PLS special busbars</th>
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</thead>
<tbody>
<tr>
<td>E-Cu 120 mm², 3 mm bar thickness.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length (mm)</th>
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<th>Model No. SV</th>
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<tr>
<td>500</td>
<td>3</td>
<td>9601.000</td>
</tr>
<tr>
<td>700</td>
<td>3</td>
<td>9602.000</td>
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<td>1100</td>
<td>3</td>
<td>9603.000</td>
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<tr>
<td>1500</td>
<td>3</td>
<td>9624.000</td>
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<table>
<thead>
<tr>
<th>Accessories</th>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Busbar connectors for connecting the busbars; no drilling required</td>
<td>3</td>
</tr>
</tbody>
</table>

1) Maximum tightening torque 2 Nm.

<table>
<thead>
<tr>
<th>Mini-PLS base tray sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>For rear contact hazard protection of the Mini-PLS assembly.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length (L mm)</th>
<th>Packs of</th>
<th>Model No. SV</th>
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</thead>
<tbody>
<tr>
<td>250</td>
<td>1</td>
<td>9604.000</td>
</tr>
<tr>
<td>500</td>
<td>1</td>
<td>9605.000</td>
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<tr>
<td>700</td>
<td>1</td>
<td>9606.000</td>
</tr>
<tr>
<td>1100</td>
<td>1</td>
<td>9607.000</td>
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</table>

<table>
<thead>
<tr>
<th>Mini-PLS cover sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>May be cut to length individually; for clip-on mounting onto the Mini-PLS base tray section.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Length (L mm)</th>
<th>Packs of</th>
<th>Model No. SV</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>1</td>
<td>9608.000</td>
</tr>
<tr>
<td>500</td>
<td>1</td>
<td>9609.000</td>
</tr>
</tbody>
</table>

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

Colour:
RAL 7035
### Mini-PLS busbar connection adaptors (3-pole)

#### Material:
Polyamide (PA 6.6),
30% fibreglass-reinforced.
Continuous operating temperature max. 140°C.
Fire protection corresponding to UL 94-V0.

#### Colour:
RAL 7035 (cover),
RAL 9011 (chassis)

#### Material:
Polyamide (PA 6.6),
30% fibreglass-reinforced.
Continuous operating temperature max. 140°C.
Fire protection corresponding to UL 94-V0.

#### Colour:
RAL 7035 (cover),
RAL 9011 (chassis)

### Design

<table>
<thead>
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<th>Design</th>
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<th>2</th>
<th>Page</th>
</tr>
</thead>
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<tr>
<td>Rated current up to</td>
<td>63 A</td>
<td>250 A</td>
<td></td>
</tr>
<tr>
<td>Rated operating voltage</td>
<td>690 V~</td>
<td>690 V~</td>
<td></td>
</tr>
<tr>
<td>Connection</td>
<td>top/bottom</td>
<td>top/bottom</td>
<td></td>
</tr>
<tr>
<td>Connection of round conductors</td>
<td>1.5 – 35 mm²</td>
<td>10 – 120 mm²</td>
<td></td>
</tr>
<tr>
<td>Clamping area for laminated copper bars</td>
<td>10 x 8 mm</td>
<td>17 x 15 mm</td>
<td></td>
</tr>
<tr>
<td>Tightening torque</td>
<td>2 – 3 Nm</td>
<td>4 – 6 Nm</td>
<td></td>
</tr>
<tr>
<td>Packs of</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Model No. SV</td>
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<td>9612.000</td>
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</tr>
<tr>
<td>Accessories</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Laminated copper bars</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) Wire end ferrules should be used with fine wire conductors.

---

**Busbar system Page 336**  **Component adaptors Page 338**  **Bus-mounting fuse base Page 341**  **NH on-load isolator Page 341**
**Busbar systems up to 250 A (40 mm)**

**Mini-PLS component adaptors 12 A/25 A (3-pole)**

**Material:**
Polyamide (PA 6.6),
30 % fibreglass-reinforced.
Continuous operating temperature max. 140°C.
Fire protection corresponding to UL 94-V0.

**Colour:**
RAL 7035

**Note:**
Overview of switchgear for the appropriate adaptor, see page 1236.
The current carrying capacity of the supply cables fitted as standard can be found on page 1236.

---

### Design

<table>
<thead>
<tr>
<th>Construction width</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>45 mm</td>
<td>54 mm</td>
<td>72 mm</td>
<td>90 mm</td>
<td>99 mm</td>
<td>108 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated current up to</td>
<td>12 A</td>
<td>25 A</td>
<td>25 A</td>
<td>25 A</td>
<td>25 A</td>
<td>25 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated operating voltage</td>
<td>690 V~</td>
<td>690 V~</td>
<td>690 V~</td>
<td>690 V~</td>
<td>690 V~</td>
<td>690 V~</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable outlet</td>
<td>top</td>
<td>top</td>
<td>top</td>
<td>top</td>
<td>top</td>
<td>top</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection cables</td>
<td>AWG 14</td>
<td>AWG 12</td>
<td>AWG 12</td>
<td>AWG 12</td>
<td>AWG 12</td>
<td>AWG 12</td>
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<tr>
<td>Support rails</td>
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<td>1</td>
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<td>1</td>
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<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Height</td>
<td>7.5 mm</td>
<td>7.5 mm</td>
<td>15 mm</td>
<td>7.5 mm</td>
<td>15 mm</td>
<td>7.5 mm</td>
<td>7.5 mm</td>
<td>7.5 mm</td>
</tr>
<tr>
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<td>1</td>
<td>1</td>
<td>1</td>
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</tbody>
</table>

**Model No. SV**
9614.110 9614.100 9615.100 9614.000 9615.000 9625.000 9626.000 9629.010 9629.020 9629.030

---

**Accessories**

| Insert strip | Qty. | 2 | 9623.000 | 9623.000 | 9623.000 | 9623.000 | 9623.000 | 9623.000 | 9623.000 | 9623.000 | 9623.000 | 400 |
| Support rails, width 45 mm, height 7.5 mm | 10 | 9320.150 | 9320.150 | 9320.150 | – | – | – | – | 9320.150 | 9320.150 | – | 404 |
| Support rails, width 54 mm, height 7.5 mm | 10 | – | – | – | 3548.000 | 3548.000 | – | – | – | 3548.000 | 3548.000 | 404 |
| Support rails, width 72 mm, height 7.5 mm | 10 | – | – | – | – | 3549.000 | 3549.000 | – | – | – | – | 404 |
| Plug-in connector | 1 | 9623.100 | 9623.100 | 9623.100 | 9623.100 | 9623.100 | 9623.100 | – | – | 9623.100 | 9623.100 | 405 |

---

1) **AWG** = American Wire Gauges
AWG 14 = 2.08 mm² 2.5 mm²
AWG 12 = 3.31 mm² 4 mm²
Mini-PLS quick-fit component adaptors 25 A/32 A (3-pole)

Rapid DIN rail adjustment for component connection.

Material:
Polyamide (PA 6.6), 30% fibreglass-reinforced. Continuous operating temperature max. 140°C. Fire protection corresponding to UL 94-V0.

Colour:
RAL 7035

Note:
Overview of switchgear for the appropriate adaptor, see page 1236.

<table>
<thead>
<tr>
<th>Design</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<tbody>
<tr>
<td>Construction width</td>
<td>54 mm</td>
<td>54 mm</td>
<td>54 mm</td>
<td>54 mm</td>
<td>54 mm</td>
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</tr>
<tr>
<td>Rated current up to</td>
<td>25 A at 35°C ambient temperature</td>
<td>32 A at 25°C ambient temperature</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated operating voltage</td>
<td>690 V~</td>
<td>690 V~</td>
<td>690 V~</td>
<td>690 V~</td>
<td>690 V~</td>
<td></td>
</tr>
<tr>
<td>Support rails Qty.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>7.5 mm</td>
<td>7.5 mm</td>
<td>7.5 mm</td>
<td>7.5 mm</td>
<td>7.5 mm</td>
<td></td>
</tr>
<tr>
<td>Packs of</td>
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<td>1</td>
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</tr>
<tr>
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<td>9620.000</td>
<td>9621.000</td>
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<tr>
<td>Accessories Packs of</td>
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</tr>
<tr>
<td>Insert strip</td>
<td>2</td>
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<td>9623.000</td>
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</table>
### Busbar systems up to 250 A (40 mm)

#### Mini-PLS component adaptors 40 A/100 A (3-pole)

<table>
<thead>
<tr>
<th>Design</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction width (A)</td>
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<td>54 mm</td>
<td>72 mm</td>
<td>72 mm</td>
<td>90 mm</td>
<td></td>
</tr>
<tr>
<td>Rated current up to</td>
<td>40 A</td>
<td>40 A</td>
<td>40 A</td>
<td>40 A</td>
<td>100 A</td>
<td></td>
</tr>
<tr>
<td>Rated operating voltage</td>
<td>690 V~</td>
<td>690 V~</td>
<td>690 V~</td>
<td>690 V~</td>
<td>690 V~</td>
<td></td>
</tr>
<tr>
<td>Cable outlet</td>
<td>top</td>
<td>top</td>
<td>top</td>
<td>top</td>
<td>top</td>
<td></td>
</tr>
<tr>
<td>Connection cables1)</td>
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<td>1</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>7.5 mm</td>
<td>15 mm</td>
<td>7.5 mm</td>
<td>15 mm</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Packs of</td>
<td>1</td>
<td>1</td>
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<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Model No. SV</td>
<td>9616.000</td>
<td>9617.000</td>
<td>9627.000</td>
<td>9628.000</td>
<td>9629.000</td>
<td></td>
</tr>
</tbody>
</table>

#### Accessories

<table>
<thead>
<tr>
<th>Packs of</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insert strip</td>
</tr>
<tr>
<td>Support rails width 54 mm, height 7.5 mm</td>
</tr>
<tr>
<td>Support rails width 72 mm, height 7.5 mm</td>
</tr>
<tr>
<td>Support rails width 72 mm, height 15 mm</td>
</tr>
<tr>
<td>Plug-in connector</td>
</tr>
</tbody>
</table>

1) AWG = American Wire Gauges
   AWG 10 = 5.26 mm², AWG 10 = 6 mm²

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**Material:**
Polyamide (PA 6.6), 30 % fibreglass-reinforced.
Continuous operating temperature max. 140°C.
Fire protection corresponding to UL 94-V0.

**Colour:**
RAL 7035, RAL 9011 (SV 9629.000)

**Note:**
Overview of switchgear for the appropriate adaptor, see page 1237.
The current carrying capacity of the supply cables fitted as standard can be found on page 1236.

**Material:**
Polyamide (PA 6.6), 30 % fibreglass-reinforced.
Continuous operating temperature max. 140°C.
Fire protection corresponding to UL 94-V0.

**Colour:**
RAL 7035, RAL 9011 (SV 9629.000)

**Note:**
Overview of switchgear for the appropriate adaptor, see page 1237.
The current carrying capacity of the supply cables fitted as standard can be found on page 1236.

**Material:**
Polyamide (PA 6.6), 30 % fibreglass-reinforced.
Continuous operating temperature max. 140°C.
Fire protection corresponding to UL 94-V0.

**Colour:**
RAL 7035, RAL 9011 (SV 9629.000)

**Note:**
Overview of switchgear for the appropriate adaptor, see page 1237.
The current carrying capacity of the supply cables fitted as standard can be found on page 1236.
Mini-PLS bus-mounting fuse base D 02-E 18

Material:
Polyamide (PA 6.6), 30 % fibreglass-reinforced. Continuous operating temperature max. 140°C. Fire protection corresponding to UL 94-V0.

Colour:
RAL 7035 (cover), RAL 9011 (chassis)

Supply includes:
Cover.

Rated current 63 A
Rated operating voltage 400 V~
Connection of round conductors 1) 1.5 – 16 mm²
Tightening torque
● Terminal 2.5 Nm
Packs of 1

Model No. SV 9630.000

1) Wire end ferrules should be used with fine wire conductors.

NH on-load isolators size 000

Material:
Chassis, lid, contact hazard protection: Fibreglass-reinforced polyamide
Contact tracks: Silver-plated hard copper

Colour:
RAL 7035

Technical information, see page 1246.

Size 000
Rated current 100 A
Rated operating voltage 690 V~
Cable outlet top/bottom
Type of connection Terminal up to 50 mm²
Tightening torque 3 Nm
Packs of 1

Model No. SV 3431.000

Also required:
Mini-PLS busbar adaptor, see below.

Accessories:
Micro-switch SV 3071.000, see page 406.

Mini-PLS busbar adaptor

For mounting SV 3431.000 on Rittal Mini-PLS.

Material:
Polyamide (PA 6.6), 30 % fibreglass-reinforced. Continuous operating temperature max. 140°C. Fire protection corresponding to UL 94-V0.

Colour:
RAL 9011

Packs of 1

Model No. SV 9629.100

Supply includes:
35 mm² connection cables fitted as standard.