

# RSC 4-F/12 - Bolt connection terminal block



3059207

<https://www.phoenixcontact.com/us/products/3059207>

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Feed-through terminal block with bolt connection method, cross section: 0.1 - 6 mm<sup>2</sup>, AWG: 26 - 10, width 9 mm, color: gray

## Your advantages

- Large-surface, consistent external and center labeling
- Mounting on standard DIN rails or directly in control boxes
- Compact screw connection of ring and fork-type cable lugs
- Screw nuts and current bars are latched in the insulating housing and cannot be removed
- Cover profile that can be snapped directly onto the terminal blocks provides touch-proof protection
- The isolator bridge bar supports switchable cross connections; the bridge screw therefore has the function of a live contact
- Bridge shaft for potential distribution using standard screw bridges

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 3059207                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BE15                           |
| Product key                          | BE1515                         |
| GTIN                                 | 4046356534826                  |
| Weight per piece (including packing) | 179 g                          |
| Weight per piece (excluding packing) | 182 g                          |
| Customs tariff number                | 85369010                       |
| Country of origin                    | IN                             |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Bolt connection terminal block |
| Pitch                 | 9 mm                           |
| Number of connections | 24                             |
| Number of rows        | 1                              |
| Potentials            | 12                             |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 1.02 W |

### Connection data

|                                 |                   |
|---------------------------------|-------------------|
| Number of connections per level | 24                |
| Nominal cross section           | 4 mm <sup>2</sup> |

#### 1 level

|                                  |   |
|----------------------------------|---|
| Connection method                | Bolt connection   |
| Stripping length                 | The stripping length depends on the specification provided by the cable lug manufacturer. |
| Connection in acc. with standard | IEC 60947-7-1   |
| Nominal cross section            | 4 mm <sup>2</sup>   |
| Nominal current                  | 32 A  |
| Maximum load current             | 32 A  |
| Nominal voltage                  | 800 V   |

#### Cable lug connection DIN 46234:1980-03

|                                  |   |
|----------------------------------|---|
| Connection in acc. with standard | DIN 46234:1980-03                           |
| Cross section                    | 0.1 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Cross section range AWG          | 26 ... 10 (converted acc. to IEC)           |
| Hole diameter                    | 4.3 mm                                      |
| Width                            | 8 mm  |
| Bolt diameter                    | 4 mm  |
| Screw thread                     | M4  |
| Tightening torque                | 1.2 ... 1.4 Nm                              |
| Connection in acc. with standard | DIN 46237:1970-07                           |
| Cross section                    | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Cross section range AWG          | 26 ... 10 (converted acc. to IEC)           |
| Hole diameter                    | 4.3 mm                                      |
| Width                            | 8 mm  |

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|  |                     |
|--|---------------------|
| Bolt diameter                                  | 4 mm                |
| Screw thread                                   | M4                  |
| Tightening torque                              | 1.2 ... 1.4 Nm      |
| Identification color of ring cable lugs : red  | 1 mm <sup>2</sup>   |
| Identification color of ring cable lugs : blue | 2.5 mm <sup>2</sup> |

## Dimensions

|        |          |
|--------|----------|
| Width  | 125.8 mm |
| Height | 37 mm    |
| Pitch  | 9 mm     |

## Material specifications

|   |                 |
|---|-----------------|
| Color   | gray (RAL 7042) |
| Flammability rating according to UL 94                                  | V0              |
| Insulating material group   | I               |
| Insulating material   | PA              |
| Static insulating material application in cold                          | -60 °C          |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C          |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C          |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3     |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg        |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed          |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed          |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed          |

## Mechanical properties

### Mechanical data

|                 |     |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

## Environmental and real-life conditions

### Ambient conditions

|  |   |
|--|---|
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly)           | -5 °C ... 70 °C   |
| Ambient temperature (actuation)          | -5 °C ... 70 °C   |
| Permissible humidity (storage/transport) | 30 % ... 70 %   |

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

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## Mounting

| Mounting type           |
|-------------------------|
| direct screw connection |

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## Drawings

### Circuit diagram



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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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