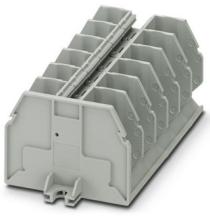
# RBO 5-F/6 - Bolt connection terminal block

3058240

https://www.phoenixcontact.com/us/products/3058240

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Feed-through terminal block with bolt connection method, cross section: 0.1 - 6 mm$^2$, AWG: 26 - 10, width 13 mm, color: gray

## Your advantages

- Direct mounting in control boxes
- Compact connection with ring and fork-type cable lugs
- Bridge shaft for potential distribution using standard screw bridges
- Isolator bridge bar for switchable cross connections

## Commercial data

| | |
|---|---|
| Item number | 3058240 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BE44 |
| Product key | BE4415 |
| GTIN | 4046356534772 |
| Weight per piece (including packing) | 140.2 g |
| Weight per piece (excluding packing) | 140.2 g |
| Customs tariff number | 85369010 |
| Country of origin | IN |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Bolt connection terminal block |
| Pitch | 13 mm |
| Number of connections | 12 |
| Number of rows | 1 |
| Potentials | 6 |

Insulation characteristics

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

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 8 kV |
| Maximum power dissipation for nominal condition | 1.82 W |

### Connection data

| | |
|---|---|
| Number of connections per level | 12 |
| Nominal cross section | 10 mm² |

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 | 10 mm² |
| Nominal current | 57 A |
| Maximum load current | 57 A (with 10 mm² conductor cross-section) |
| Nominal voltage | 1000 V |

Cable lug connection DIN 46234:1980-03

| | |
|---|---|
| Connection in acc. with standard | DIN 46234:1980-03 |
| Cross section | 0.1 mm² ... 10 mm² |
| Cross section range AWG | 26 ... 8 (converted acc. to IEC) |
| Hole diameter | 5.3 mm |
| Width | 10 mm |
| Bolt diameter | 5 mm |
| Screw thread | M5 |
| Tightening torque | 2 ... 2.2 Nm |
| Connection in acc. with standard | DIN 46237:1970-07 |
| Cross section | 0.5 mm² ... 6 mm² |
| Additional text | Cable lug for 0.5 mm² ... 1.5 mm² and 1.5 mm² ... 2.5 mm² without shrink tubing only permitted up to 800 V. |
| Cross section range AWG | 20 ... 10 (converted acc. to IEC) |

| | |
|---|---|
| Hole diameter | 5.3 mm |
| Width | 10 mm |
| Bolt diameter | 5 mm |
| Tightening torque | 2 ... 2.2 Nm |
| Identification color of ring cable lugs : red | 1 mm² |
| Identification color of ring cable lugs : blue | 2.5 mm² |
| Identification color of ring cable lugs : yellow | 6 mm² |

## Dimensions

| | |
|---|---|
| Width | 95.7 mm |
| Height | 53.3 mm |
| Depth | 37 mm |
| Hole diameter | 5.2 mm |
| Pitch | 13 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 |

## Electrical tests

Surge voltage test

| | |
|---|---|
| Result | Test passed |

Temperature-rise test

| | |
|---|---|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 10 mm² | 1.2 kA |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|---|---|
| Test voltage setpoint | 2 kV |

| | |
|---|---|
| Result | Test passed |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Open side panel | No |

## Mechanical tests

Mechanical strength

| | |
|---|---|
| Result | Test passed |

## Environmental and real-life conditions

Needle-flame test

| | |
|---|---|
| Time of exposure | 30 s |
| Result | Test passed |

Oscillation/broadband noise

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2018-05 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | $f_1$ = 5 Hz to $f_2$ = 250 Hz |
| ASD level | 6.12 $(m/s^2)^2/Hz$ |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |

Shocks

| | |
|---|---|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape | Half-sine |
| Acceleration | 30g |
| Shock duration | 18 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| 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 (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

## Standards and regulations

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

## Mounting

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

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250101 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC000897 |

### UNSPSC

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

## 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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