

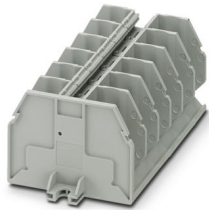
# RBO 5-F/6 - Bolt connection terminal block



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<sup>2</sup>, 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            |

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## 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 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            | 10 mm <sup>2</sup>  |
| Nominal current                  | 57 A  |
| Maximum load current             | 57 A (with 10 mm <sup>2</sup> 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 mm <sup>2</sup> ... 10 mm <sup>2</sup>  |
| 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 mm <sup>2</sup> ... 6 mm <sup>2</sup>   |
| Additional text                  | Cable lug for 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> and 1.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> without shrink tubing only permitted up to 800 V. |
| Cross section range AWG          | 20 ... 10 (converted acc. to IEC)   |

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|  |                     |
|--|---------------------|
| 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 mm <sup>2</sup>   |
| Identification color of ring cable lugs : blue   | 2.5 mm <sup>2</sup> |
| Identification color of ring cable lugs : yellow | 6 mm <sup>2</sup>   |

## 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 $\leq$ 45 K |
| Result  | Test passed                         |
| Short-time withstand current 10 mm <sup>2</sup> | 1.2 kA                              |
| Result  | Test passed                         |

### Power-frequency withstand voltage

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

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|        |             |
|--------|-------------|
| 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              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$      |
| 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 |
|----------------------------------|---------------|

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## Mounting

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

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## Classifications

### ECLASS

ECLASS-13.0

27250101

### ETIM

ETIM 9.0

EC000897

### 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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