

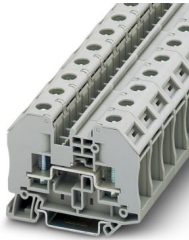
RT 5-NICR/NI - Thermoelectric voltage terminal block pair



3048106

<https://www.phoenixcontact.com/us/products/3048106>

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Thermoelectric voltage terminal block with bolt connection technology, cross section: 0.1 - 6 mm², AWG: 26 - 10, width: 16.3 mm, color: gray

The figure shows a version of the article

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 3048106 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BE43 |
| Product key | BE4313 |
| GTIN | 4046356966948 |
| Weight per piece (including packing) | 99.99 g |
| Weight per piece (excluding packing) | 99.99 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

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Technical data

Product properties

| | |
|-----------------------|--------------------------------|
| Product type | Bolt connection terminal block |
| Number of positions | 2 |
| Number of connections | 4 |
| Number of rows | 1 |
| Potentials | 2 |

Insulation characteristics

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

Electrical properties

| | |
|---------------------|------|
| Rated surge voltage | 8 kV |
|---------------------|------|

Connection data

| | |
|---------------------------------|-------------------|
| Number of connections per level | 4 |
| Nominal cross section | 1 mm ² |
| Rated cross section AWG | 16 |

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 |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm ² ... 1 mm ² |
| Nominal cross section | 1 mm ² |
| Nominal current | 1 A |
| Maximum load current | 1 A |
| Nominal voltage | 50 mV |

Cable lug connection DIN 46234:1980-03

| | |
|----------------------------------|---|
| Connection in acc. with standard | DIN 46234:1980-03 |
| Cross section | 0.5 mm ² ... 1 mm ² |
| Cross section range AWG | 20 ... 16 (converted acc. to IEC) |
| Hole diameter | 5.3 mm |
| Width | 10 mm |
| Bolt diameter | 5 mm |
| Screw thread | M5 |
| Tightening torque | 2.5 ... 3 Nm |

Dimensions

| | |
|-----------------|---------|
| Width | 32.6 mm |
| End cover width | 2.2 mm |

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Material specifications

| | |
|---|-------------|
| Color | gray |
| 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

| | |
|-----------------------|-------------|
| Test voltage setpoint | 9.8 kV |
| Result | Test passed |

Temperature-rise test

| | |
|-----------------------------------|-------------------------------------|
| Requirement temperature-rise test | Increase in temperature \leq 45 K |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|-----------------------|-------------|
| Test voltage setpoint | 2.2 kV |
| Result | Test passed |

Mechanical properties

Mechanical data

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

Mechanical tests

Mechanical strength

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

Attachment on the carrier

| | |
|-------------------------|-------------|
| DIN rail/fixing support | NS 35 |
| Test force setpoint | 5 N |
| Result | Test passed |

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Environmental and real-life conditions

Needle-flame test

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

Standards and regulations

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

Mounting

| | |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
| | NS 35/15 |

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Environmental product compliance

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

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

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