

RTO 5-T-TC - Test disconnect terminal block



3049990

<https://www.phoenixcontact.com/us/products/3049990>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Test disconnect terminal block with bolt connection technology and transparent safety contact hood, cross section: 0.1 - 6 mm², AWG: 26 - 10, width 16.3 mm, color: gray

Your advantages

- Four bridge shafts per terminal block
- Terminal point always freely accessible
- Easy bridging and potential distribution using the patented plug-in bridges from the CLIPLINE complete system
- The screws are secured against loosening by captive spring-loaded spacers
- Large-surface labeling options in the terminal center and above the terminal points
- The use of the switching lock effectively prevents unintentional switching

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 3049990 |
| Packing unit | 25 pc |
| Minimum order quantity | 25 pc |
| Sales key | BE43 |
| Product key | BE4333 |
| Catalog page | Page 382 (C-1-2019) |
| GTIN | 4046356431408 |
| Weight per piece (including packing) | 43.54 g |
| Weight per piece (excluding packing) | 37.16 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

RTO 5-T-TC - Test disconnect terminal block



3049990

<https://www.phoenixcontact.com/us/products/3049990>

Technical data

Notes

| | |
|---------|---|
| General | Note: the BE-RT... path extension is to be used for non-insulated cable lugs (see accessories). |
|---------|---|

Product properties

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

Insulation characteristics

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

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 1.31 W |

Connection data

| | |
|----------------------------------|---|
| Number of connections per level | 2 |
| Nominal cross section | 6 mm ² |
| 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 current | 41 A |
| Maximum load current | 41 A (with 6 mm ² conductor cross section) |
| Nominal voltage | 500 V |
| Nominal cross section | 6 mm ² |

Disconnect slide

| | |
|--------------|----|
| Screw thread | M4 |
|--------------|----|

Cable lug connection DIN 46234:1980-03

| | |
|----------------------------------|---|
| Connection in acc. with standard | DIN 46234:1980-03 |
| Cross section | 0.5 mm ² ... 6 mm ² |
| Cross section range AWG | 20 ... 10 (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 |
| Connection in acc. with standard | DIN 46237:1970-07 |
| Cross section | 1 mm ² ... 6 mm ² |

RTO 5-T-TC - Test disconnect terminal block



3049990

<https://www.phoenixcontact.com/us/products/3049990>

| | |
|--|-----------------------------------|
| Cross section range AWG | 16 ... 10 (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 |
| Identification color of ring cable lugs : red | 1 mm ² |
| Identification color of ring cable lugs : blue | 2.5 mm ² |
| Identification color of ring cable lugs : yellow | 6 mm ² |

Dimensions

| | |
|--------------------|---------|
| Width | 16.3 mm |
| End cover width | 2.2 mm |
| Height | 91.4 mm |
| Depth on NS 35/7,5 | 51 mm |
| Depth on NS 35/15 | 58.5 mm |

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

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

Temperature-rise test

| | |
|--|--------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 6 mm ² | 0.72 kA |
| Result | Test passed |

RTO 5-T-TC - Test disconnect terminal block



3049990

<https://www.phoenixcontact.com/us/products/3049990>

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 |
|--------|-------------|

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 | Service 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 % |

RTO 5-T-TC - Test disconnect terminal block



3049990

<https://www.phoenixcontact.com/us/products/3049990>

Standards and regulations

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

Mounting

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

RTO 5-T-TC - Test disconnect terminal block



3049990

<https://www.phoenixcontact.com/us/products/3049990>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27141126 |
| ECLASS-12.0 | 27141126 |
| ECLASS-13.0 | 27250101 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC000902 |
|----------|----------|

UNSPSC

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

RTO 5-T-TC - Test disconnect terminal block



3049990

<https://www.phoenixcontact.com/us/products/3049990>

Environmental product compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com