

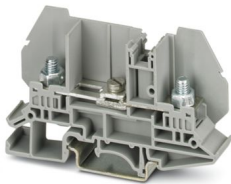
# RBO 5-T-B - Test disconnect terminal block



3214932

<https://www.phoenixcontact.com/it/products/3214932>

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, nom. voltage: 800 V, nominal current: 41 A, connection method: Bolt connection, Rated cross section: 6 mm<sup>2</sup>, mounting: NS 35/7,5, NS 35/15, color: gray

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3214932       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BE4           |
| Product key                          | BE4433        |
| GTIN                                 | 4046356605847 |
| Weight per piece (including packing) | 29.15 g       |
| Weight per piece (excluding packing) | 29.15 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | IN            |

# RBO 5-T-B - Test disconnect terminal block



3214932

<https://www.phoenixcontact.com/it/products/3214932>

## Technical data

### Notes

#### General

|      |                                                                                                                                                                                                                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note | The rated insulation voltage applies to insulated cable lugs acc. DIN 46237:1970-07 and for uninsulated cable lugs acc. DIN 46234:1980-03 with shrink sleeve.                                                                                                                                                 |
|      | The rated insulation voltage applies to insulated cable lugs acc. DIN 46237:1970-07 and for uninsulated cable lugs acc. DIN 46234:1980-03 with shrink sleeve. When using uninsulated cable lugs with shrink sleeve the min. required air clearances and creepage distances have to be ensured by the enduser. |
|      | The rated insulation voltage applies to insulated cable lugs acc. to DIN 46237:1970-07 and for uninsulated cable lugs acc. to DIN 46234:1980-03 with path extension.                                                                                                                                          |

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Bolt connection terminal block |
| Pitch                 | 13 mm                          |
| Number of connections | 2                              |
| Number of rows        | 1                              |
| Potentials            | 1                              |

#### 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 | 2                  |
| Nominal cross section           | 10 mm <sup>2</sup> |

#### Level 1 above 1 below 1

|                                  |                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------|
| Screw thread                     | M5                                                                                        |
| 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             | 50 A (with 10 mm <sup>2</sup> conductor cross section)                                    |
| Nominal voltage                  | 800 V (with open 630 V disconnect point)                                                  |
| Nominal cross section            | 6 mm <sup>2</sup>                                                                         |

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

|                                  |                   |
|----------------------------------|-------------------|
| Connection in acc. with standard | DIN 46234:1980-03 |
|----------------------------------|-------------------|

# RBO 5-T-B - Test disconnect terminal block



3214932

<https://www.phoenixcontact.com/it/products/3214932>

|                                                  |                                   |
|--------------------------------------------------|-----------------------------------|
| 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                              |
| Tightening torque                                | 2 ... 2.2 Nm                      |
| Connection in acc. with standard                 | DIN 46237:1970-07                 |
| Cross section                                    | 0.5 mm² ... 6 mm²                 |
| 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              | 13 mm   |
| End cover width    | 2.2 mm  |
| Height             | 80.8 mm |
| Depth on NS 35/7,5 | 49.8 mm |
| Depth on NS 35/15  | 57.3 mm |
| Pitch              | 13 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      |
| 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 |
| 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 |
|--------|-------------|

# RBO 5-T-B - Test disconnect terminal block



3214932

<https://www.phoenixcontact.com/it/products/3214932>

## Temperature-rise test

|                                                |                                     |
|------------------------------------------------|-------------------------------------|
| Requirement temperature-rise test              | Increase in temperature $\leq 45$ K |
| Result                                         | Test passed                         |
| Short-time withstand current 6 mm <sup>2</sup> | 0.72 kA                             |
| Result                                         | Test passed                         |

## Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2 kV        |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Mechanical strength

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

### Attachment on the carrier

|        |             |
|--------|-------------|
| 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              | $f_1 = 5$ Hz to $f_2 = 250$ Hz              |
| ASD level              | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz   |
| Acceleration           | 3.12g                                       |
| Test duration per axis | 5 h                                         |
| Test directions        | X-, Y- and Z-axis                           |
| Result                 | Test passed                                 |

### Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Pulse shape                    | Half-sine                         |
| Acceleration                   | 5g                                |
| Shock duration                 | 30 ms                             |
| Number of shocks per direction | 3                                 |
| Test directions                | X-, Y- and Z-axis (pos. and neg.) |
| Result                         | Test passed                       |

### Ambient conditions

# RBO 5-T-B - Test disconnect terminal block



3214932

<https://www.phoenixcontact.com/it/products/3214932>

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

# RBO 5-T-B - Test disconnect terminal block

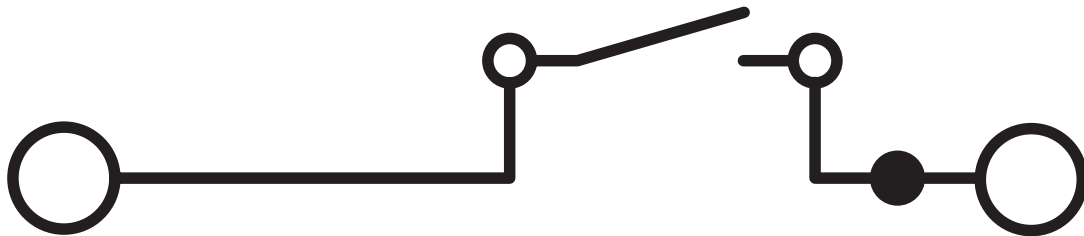


3214932

<https://www.phoenixcontact.com/it/products/3214932>

## Drawings

Circuit diagram



# RBO 5-T-B - Test disconnect terminal block



3214932

<https://www.phoenixcontact.com/it/products/3214932>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/it/products/3214932>

|                                                                                                                                                 |                       |                       |                   |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <div> <b>UL Recognized</b><br/>Approval ID: FILE E 60425</div> |                       |                       |                   |                             |
|                                                                                                                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                                                     |                       |                       |                   |                             |
|                                                                                                                                                 | 600 V                 | 41 A                  | -                 | -                           |
| Use group C                                                                                                                                     |                       |                       |                   |                             |
|                                                                                                                                                 | 600 V                 | 41 A                  | -                 | -                           |

|                                                                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|
| <div> <b>EAC</b><br/>Approval ID: RU C-DE.BL08.B.00540</div> |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|

# RBO 5-T-B - Test disconnect terminal block



3214932

<https://www.phoenixcontact.com/it/products/3214932>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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



# RBO 5-T-B - Test disconnect terminal block



3214932  
<https://www.phoenixcontact.com/lt/products/3214932>

## 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 UAB  
Svitrigailos str. 11B  
03228 Vilnius  
+370 5 2106321  
[balticinfo@phoenixcontact.com](mailto:balticinfo@phoenixcontact.com)