

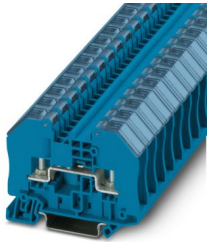
# RTO 3-TC BU - Feed-through terminal block



3049835

<https://www.phoenixcontact.com/us/products/3049835>

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Feed-through terminal block with bolt connection technology and transparent safety contact hood, cross section: 0.1 - 2.5 mm<sup>2</sup>, AWG: 26 - 14, width 12.3 mm, color: blue

## Your advantages

- Four bridge shafts per terminal block
- Terminal point always freely accessible

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3049835       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE43          |
| Product key                          | BE4312        |
| GTIN                                 | 4046356425131 |
| Weight per piece (including packing) | 20.89 g       |
| Weight per piece (excluding packing) | 20.89 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Bolt connection terminal block |
| Product family        | RTO                            |
| 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 | 0.77 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 2                   |
| Nominal cross section           | 2.5 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            | 2.5 mm <sup>2</sup>   |
| Nominal current                  | 24 A  |
| Maximum load current             | 24 A (with a 2.5 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                    | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Cross section range AWG          | 20 ... 14 (converted acc. to IEC)           |
| Hole diameter                    | 3.2 mm                                      |
| Width                            | 6 mm  |
| Bolt diameter                    | 3 mm  |
| Screw thread                     | M3  |
| Tightening torque                | 0.6 ... 0.8 Nm                              |
| Connection in acc. with standard | DIN 46237:1970-07                           |
| Cross section                    | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>   |
| Cross section range AWG          | 18 ... 14 (converted acc. to IEC)           |
| Hole diameter                    | 3.2 mm                                      |
| Width                            | 6 mm  |

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|  |                     |
|--|---------------------|
| Bolt diameter                                  | 3 mm                |
| Screw thread                                   | M3                  |
| Tightening torque                              | 0.6 ... 0.8 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> |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 12.3 mm |
| End cover width    | 2.2 mm  |
| Height             | 66 mm   |
| Depth on NS 35/7,5 | 51 mm   |
| Depth on NS 35/15  | 58.5 mm |

## Material specifications

|  |                 |
|--|-----------------|
| Color                                  | blue (RAL 5015) |
| Flammability rating according to UL 94 | V0              |
| Insulating material group              | I               |
| Insulating material                    | PA              |

## 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                         |
| Short-time withstand current 2.5 mm <sup>2</sup> | 0.3 kA                              |
| 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 |
|-------------------------|-------|

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|                     |             |
|---------------------|-------------|
| Test force setpoint | 1 N         |
| Result              | Test passed |

## Environmental and real-life conditions

### Needle-flame test

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

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

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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3049835>



**EAC**

Approval ID: RU C-DE.BL08.B.00540



**EAC**

Approval ID: KZ7500651131219505

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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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