

# TB 35 I BU - Feed-through terminal block



3076662

<https://www.phoenixcontact.com/gb/products/3076662>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, connection method: Screw connection, Rated cross section: 35 mm<sup>2</sup>, cross section: 10 mm<sup>2</sup> - 35 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: blue

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3076662       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BEK211        |
| Product key                          | BEK211        |
| GTIN                                 | 4046356662147 |
| Weight per piece (including packing) | 51.38 g       |
| Weight per piece (excluding packing) | 49.585 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | IN            |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Feed-through terminal block |
| Product family        | TB                          |
| 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 | 4.06 W |

### Connection data

|   |   |
|---|---|
| Number of connections per level   | 2   |
| Nominal cross section   | 35 mm <sup>2</sup>                                      |
| Connection method   | Screw connection  |
| Screw thread  | M6  |
| Tightening torque   | 3.2 ... 3.7 Nm  |
| Stripping length  | 16 mm   |
| Connection in acc. with standard  | IEC 60947-7-1   |
| Conductor cross-section rigid   | 10 mm <sup>2</sup> ... 35 mm <sup>2</sup>               |
| Cross section AWG   | 6 ... 2 (converted acc. to IEC)                         |
| Conductor cross-section flexible  | 10 mm <sup>2</sup> ... 35 mm <sup>2</sup>               |
| Conductor cross-section, flexible [AWG]   | 6 ... 2 (converted acc. to IEC)                         |
| Conductor cross-section flexible (ferrule without plastic sleeve)                   | 10 mm <sup>2</sup> ... 35 mm <sup>2</sup>               |
| Flexible conductor cross-section (ferrule with plastic sleeve)                      | 10 mm <sup>2</sup> ... 35 mm <sup>2</sup>               |
| 2 conductors with same cross section, solid   | 6 mm <sup>2</sup> ... 16 mm <sup>2</sup>                |
| 2 conductors with the same cross-section AWG rigid                                  | 6 ... 4 (converted acc. to IEC)                         |
| 2 conductors with same cross section, flexible                                      | 6 mm <sup>2</sup> ... 10 mm <sup>2</sup>                |
| 2 conductors with the same cross-section AWG flexible                               | 6 ... 8 (converted acc. to IEC)                         |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 6 mm <sup>2</sup> ... 10 mm <sup>2</sup>                |
| Nominal current   | 125 A   |
| Maximum load current  | 125 A (with 35 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage   | 1000 V  |
| Nominal cross section   | 35 mm <sup>2</sup>                                      |

### Dimensions

|       |         |
|-------|---------|
| Width | 15.2 mm |
|-------|---------|

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|                    |         |
|--------------------|---------|
| Height             | 53.5 mm |
| Depth on NS 35/7,5 | 62.1 mm |
| Depth on NS 35/15  | 69.6 mm |

## Material specifications

|  |                 |
|--|-----------------|
| Color  | blue (RAL 5015) |
| 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

|                       |             |
|-----------------------|-------------|
| 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 35 mm <sup>2</sup> | 4.2 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 | 10 N        |
| Result              | Test passed |

## Test for conductor damage and slackening

|                                |  |
|--------------------------------|--|
| Rotation speed                 | 10 rpm   |
| Revolutions                    | 135  |
| Conductor cross-section/weight | 10 mm <sup>2</sup> / 2 kg<br>35 mm <sup>2</sup> / 6.8 kg |
| 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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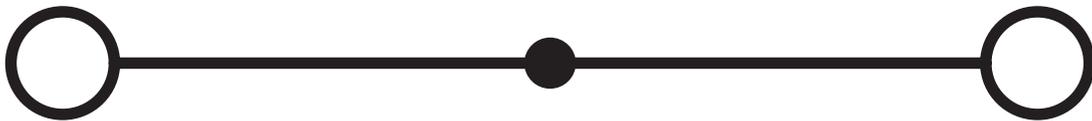
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## Drawings

### Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/3076662>

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B  | 600 V                 | 115 A                 | 8 - 2             | -                           |
| C  | 600 V                 | 115 A                 | 8 - 2             | -                           |

|  <b>EAC</b><br>Approval ID: KZ7500651131219505 |  |
|---|--|
|---|--|

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## Classifications

### ECLASS

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