

# UK 35-IB - Feed-through terminal block



3008009

<https://www.phoenixcontact.com/us/products/3008009>

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Feed-through terminal block, with Allen screws, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 2, connection method: Screw connection, Rated cross section: 35 mm<sup>2</sup>, cross section: 0.75 mm<sup>2</sup> - 50 mm<sup>2</sup>, mounting type: NS 32, NS 35/7,5, NS 35/15, color: gray

## Your advantages

- The large wiring space enables the connection of solid and stranded conductors without ferrules, even above the nominal cross section
- As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- Optimum screwdriver guidance through closed screw shafts

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3008009       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BE12          |
| Product key                          | BE1211        |
| GTIN                                 | 4017918243210 |
| Weight per piece (including packing) | 57.28 g       |
| Weight per piece (excluding packing) | 55.64 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Feed-through 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                             | 8 kV   |
| Maximum power dissipation for nominal condition | 4.06 W |

### Connection data

|                                 |   |
|---------------------------------|---|
| Number of connections per level | 2 |
|---------------------------------|---|

#### Level 1 above 1 below 1

|   |   |
|---|---|
| Connection method   | Screw connection  |
| Screw thread  | M6  |
| Tightening torque   | 3.2 ... 3.7 Nm  |
| Stripping length  | 16 mm   |
| Internal cylindrical gage   | B9  |
| Connection in acc. with standard  | IEC 60947-7-1   |
| Conductor cross-section rigid   | 0.75 mm <sup>2</sup> ... 50 mm <sup>2</sup>             |
| Cross section AWG   | 18 ... 2 (converted acc. to IEC)                        |
| Conductor cross-section flexible  | 0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>             |
| Conductor cross-section, flexible [AWG]   | 18 ... 2 (converted acc. to IEC)                        |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>             |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.75 mm <sup>2</sup> ... 35 mm <sup>2</sup>             |
| 2 conductors with same cross section, rigid   | 0.75 mm <sup>2</sup> ... 16 mm <sup>2</sup>             |
| 2 conductors with same cross section, flexible  | 0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>             |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.75 mm <sup>2</sup> ... 10 mm <sup>2</sup>             |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.75 mm <sup>2</sup> ... 6 mm <sup>2</sup>              |
| Nominal cross section   | 35 mm <sup>2</sup>                                      |
| Nominal current   | 150 A   |
| Maximum load current  | 150 A (with 50 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage   | 1000 V  |

### Dimensions

|       |         |
|-------|---------|
| Width | 15.1 mm |
|-------|---------|

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|                    |         |
|--------------------|---------|
| Height             | 50 mm   |
| Depth on NS 32     | 67 mm   |
| Depth on NS 35/7,5 | 62 mm   |
| Depth on NS 35/15  | 69.5 mm |

## Material specifications

|  |                 |
|--|-----------------|
| Color  | gray (RAL 7042) |
| 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 |
|--------|-------------|

### 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 | No |
|-----------------|----|

## Mechanical tests

### Mechanical strength

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

### Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
|-------------------------|-------------|

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|  |                               |
|--|-------------------------------|
| Result                                   | Test passed                   |
| Test for conductor damage and slackening |                               |
| Rotation speed                           | 10 (+/- 2) rpm                |
| Revolutions                              | 135                           |
| Conductor cross-section/weight           | 0.75 mm <sup>2</sup> / 0.4 kg |
|  | 35 mm <sup>2</sup> / 6.8 kg   |
|  | 50 mm <sup>2</sup> / 9.5 kg   |
| 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               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| 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

|  |   |
|--|---|
| 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 (storage/transport) | 30 % ... 70 %   |

## Standards and regulations

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

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 32     |
|               | NS 35/7,5 |

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NS 35/15

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## Classifications

### ECLASS

ECLASS-13.0

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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.451 kg CO2e |
|---------|---------------|

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