

## High-current terminal block - UKH 240-F - 3247048

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High-current terminal block, nom. voltage: 1000 V, nominal current: 415 A, connection method: Screw connection, number of connections: 2, cross section: 70 mm<sup>2</sup> - 240 mm<sup>2</sup>, AWG: 2/0 - 500 kcmil, width: 36 mm, height: 124 mm, color: gray, mounting type: direct screw connection


for direct mounting

### Your advantages

- Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base
- Low contact resistance of the contact surface due to ribbing
- Screw locking by means of spring-loaded elements in the clamping part



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 10 pc   |
| GTIN                                 | <br>4 046356 607278 |
| GTIN                                 | 4046356607278   |
| Weight per Piece (excluding packing) | 494.170 g   |
| Custom tariff number                 | 85369010  |
| Country of origin                    | India   |
| Sales Key                            | BE1311  |

### Technical data

#### General

|  |                     |
|--|---------------------|
| Number of levels                       | 1                   |
| Number of connections                  | 2                   |
| Potentials                             | 1                   |
| Nominal cross section                  | 240 mm <sup>2</sup> |
| Color                                  | gray                |
| Insulating material                    | PA                  |
| Flammability rating according to UL 94 | V0                  |
| Rated surge voltage                    | 8 kV                |

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## Technical data

### General

|   |  |
|---|--|
| Degree of pollution   | 3  |
| Overvoltage category  | III  |
| Insulating material group   | I  |
| Maximum power dissipation for nominal condition                         | 13.78 W  |
| Maximum load current  | 415 A (with 240 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>  | 415 A  |
| Nominal voltage U <sub>N</sub>  | 1000 V   |
| Open side panel   | No   |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C   |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C   |
| Static insulating material application in cold                          | -60 °C   |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed   |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed   |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg   |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed   |
| 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  |

### Dimensions

|        |          |
|--------|----------|
| Width  | 36 mm    |
| Length | 136.1 mm |
| Height | 124 mm   |

### Connection data

|                                       |  |
|---------------------------------------|--|
| Note                                  | Screws with hexagonal socket   |
| Connection method                     | Screw connection   |
| Screw thread                          | M10  |
| Stripping length                      | 40 mm  |
| Tightening torque, min                | 25 Nm  |
| Tightening torque max                 | 30 Nm  |
| Connection in acc. with standard      | IEC 60947-7-1  |
| Note                                  | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |
| Conductor cross section solid min.    | 70 mm <sup>2</sup>   |
| Conductor cross section solid max.    | 240 mm <sup>2</sup>  |
| Conductor cross section AWG min.      | 2/0  |
| Conductor cross section AWG max.      | 500 kcmil  |
| Conductor cross section flexible min. | 70 mm <sup>2</sup>   |
| Conductor cross section flexible max. | 240 mm <sup>2</sup>  |

<https://www.phoenixcontact.com/gb/products/3247048>



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### Technical data

#### Connection data

|   |                     |
|---|---------------------|
| Min. AWG conductor cross section, flexible  | 2/0                 |
| Max. AWG conductor cross section, flexible  | 500 kcmil           |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                            | 70 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                            | 185 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                               | 70 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                               | 185 mm <sup>2</sup> |
| Cross section with insertion bridge, solid max.   | 240 mm <sup>2</sup> |
| Cross section with insertion bridge, stranded max.  | 185 mm <sup>2</sup> |
| 2 conductors with same cross section, solid min.  | 35 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.  | 95 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded min.   | 50 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.   | 95 mm <sup>2</sup>  |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum | 35 mm <sup>2</sup>  |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum | 50 mm <sup>2</sup>  |
| Internal cylindrical gage   | B15                 |

#### Ambient conditions

|  |   |
|--|---|
| Operating temperature                    | -60 °C ... 105 °C (max. short-term operating temperature 130°C)           |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Permissible humidity (storage/transport) | 30 % ... 70 %   |
| Ambient temperature (assembly)           | -5 °C ... 70 °C   |
| Ambient temperature (actuation)          | -5 °C ... 70 °C   |

#### Standards and Regulations

|  |               |
|--|---------------|
| Connection in acc. with standard       | UL            |
|  | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0            |

#### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

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