

## High-current terminal block - UKH 240-3L/N/FE-F - 3076633

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High-current terminal block, Connection method: Screw connection, Number of connections: 10, Number of positions: 5, Cross section: 70 mm<sup>2</sup> - 240 mm<sup>2</sup>, AWG: 2/0 - 500 kcmil, Width: 180 mm, Height: 124 mm, Color: gray/blue/black-yellow, Mounting type: Direct screw connection

for direct mounting

### Why buy this product

- ✓ 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 | 2 STK   |
| GTIN         | <br>4 046356 654210 |
| GTIN         | 4046356654210   |

### Technical data

#### General

|   |                        |
|---|------------------------|
| Number of positions                             | 5                      |
| Number of levels                                | 1                      |
| Number of connections                           | 10                     |
| Potentials                                      | 5                      |
| Nominal cross section                           | 240 mm <sup>2</sup>    |
| Color   | gray/blue/black-yellow |
| Insulating material                             | PA                     |
| Flammability rating according to UL 94          | V0                     |
| Rated surge voltage                             | 8 kV                   |
| Degree of pollution                             | 3                      |
| Overvoltage category                            | III                    |
| Insulating material group                       | I                      |
| Maximum power dissipation for nominal condition | 13.78 W                |

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## Technical data

### General

|   |  |
|---|--|
| Maximum load current  | 415 A (At 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   |
| Behavior in fire for rail vehicles (DIN 5510-2)                         | Test passed  |
| Flame test method (DIN EN 60695-11-10)                                  | V0   |
| Oxygen index (DIN EN ISO 4589-2)  | >32 %  |
| NF F16-101, NF F10-102 Class I  | 2  |
| NF F16-101, NF F10-102 Class F  | 2  |
| 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   |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg   |
| 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  | 180 mm   |
| Length | 136.1 mm |
| Height | 124 mm   |

### Connection data

|  |  |
|--|--|
| Note   | Screws with hexagonal socket   |
| Connection method  | Screw connection   |
| 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>  |
| 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>   |

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## Technical data

### Connection data

|   |                     |
|---|---------------------|
| 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>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 35 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 50 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> |
| Stripping length  | 40 mm               |
| Internal cylindrical gage   | B15                 |
| Screw thread  | M10                 |
| Tightening torque, min  | 25 Nm               |
| Tightening torque max   | 30 Nm               |

### Standards and Regulations

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

### Environmental Product Compliance

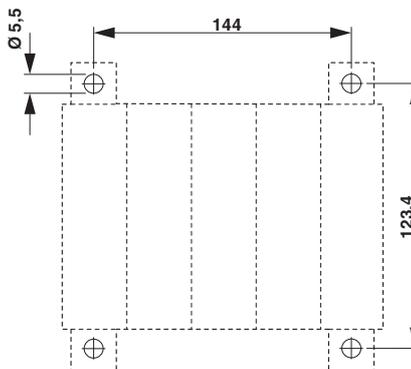
|            |   |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Circuit diagram

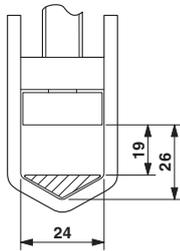


Dimensional drawing

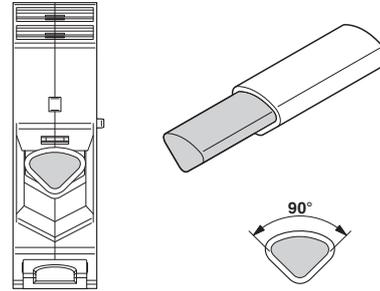


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Dimensional drawing



Schematic diagram



Connecting aluminum cables. Further notes can be found in the download area

## Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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## Approval details

|     |  |                     |
|-----|--|---------------------|
| EAC |  | 7500651.22.01.00246 |
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