

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



3076471

<https://www.phoenixcontact.com/us/products/3076471>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 415 A, number of connections: 10, number of positions: 5, connection method: Screw connection, Rated cross section: 240 mm<sup>2</sup>, cross section: 70 mm<sup>2</sup> - 240 mm<sup>2</sup>, mounting type: NS 35/15, NS 32, color: gray/blue/black-yellow

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 3076471                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BE13                           |
| Product key                          | BE1311                         |
| GTIN                                 | 4046356654050                  |
| Weight per piece (including packing) | 2,440.01 g                     |
| Weight per piece (excluding packing) | 2,367.78 g                     |
| Customs tariff number                | 85369010                       |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | High current terminal block |
| Number of positions   | 5                           |
| Number of connections | 10                          |
| Number of rows        | 1                           |
| Potentials            | 5                           |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                     |      |
|---------------------|------|
| Rated surge voltage | 8 kV |
|---------------------|------|

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 10                  |
| Nominal cross section           | 240 mm <sup>2</sup> |

### Level 1 above 1 below 1

|   |  |
|---|--|
| Connection method   | Screw connection   |
| Screw thread  | M10  |
| Note  | Screws with hexagonal socket   |
| Tightening torque   | 25 ... 30 Nm   |
| Stripping length  | 40 mm  |
| Internal cylindrical gage   | B15  |
| Connection in acc. with standard  | IEC 60947-7-1  |
| Conductor cross-section rigid   | 70 mm <sup>2</sup> ... 240 mm <sup>2</sup>   |
| Cross section AWG   | 2/0 ... 500 kcmil (converted acc. to IEC)  |
| Conductor cross-section flexible  | 70 mm <sup>2</sup> ... 240 mm <sup>2</sup>   |
| Conductor cross-section, flexible [AWG]   | 2/0 ... 500 kcmil (converted acc. to IEC)  |
| Conductor cross-section flexible (ferrule without plastic sleeve)                   | 70 mm <sup>2</sup> ... 185 mm <sup>2</sup>   |
| Flexible conductor cross-section (ferrule with plastic sleeve)                      | 70 mm <sup>2</sup> ... 185 mm <sup>2</sup>   |
| Cross-section with insertion bridge, rigid  | 240 mm <sup>2</sup>  |
| Cross-section with insertion bridge, flexible                                       | 185 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid   | 35 mm <sup>2</sup> ... 95 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible                                      | 50 mm <sup>2</sup> ... 95 mm <sup>2</sup>  |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 35 mm <sup>2</sup> ... 50 mm <sup>2</sup>  |
| Nominal current   | 415 A  |
| Maximum load current  | 415 A (with 240 mm <sup>2</sup> conductor cross-section)   |
| Nominal voltage   | 1000 V   |
| Note  | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |

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

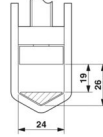


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|                       |                     |
|-----------------------|---------------------|
| Nominal cross section | 240 mm <sup>2</sup> |
|-----------------------|---------------------|

## Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 180 mm   |
| Height              | 123.6 mm   |

## Material specifications

|   |                        |
|---|------------------------|
| Color   | gray/blue/black-yellow |
| Flammability rating according to UL 94                                  | V0                     |
| Insulating material group   | I                      |
| Insulating material   | PA                     |
| Static insulating material application in cold                          | -60 °C                 |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °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            |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg               |
| 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 |
| Short-time withstand current 240 mm <sup>2</sup> | 28.8 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

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## Mechanical strength

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

## Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Result                  | Test passed |

## Environmental and real-life conditions

### Needle-flame test

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

## Standards and regulations

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

## Mounting

|               |          |
|---------------|----------|
| Mounting type | NS 35/15 |
|               | NS 32    |

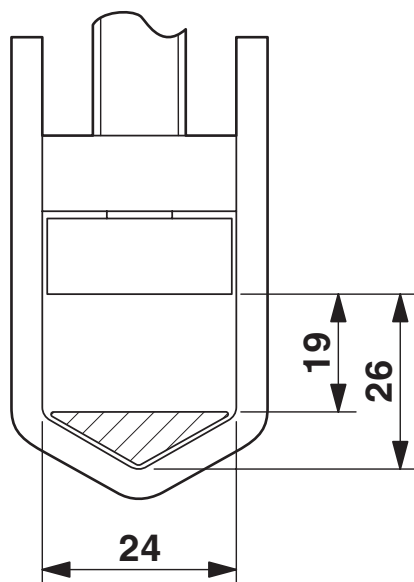
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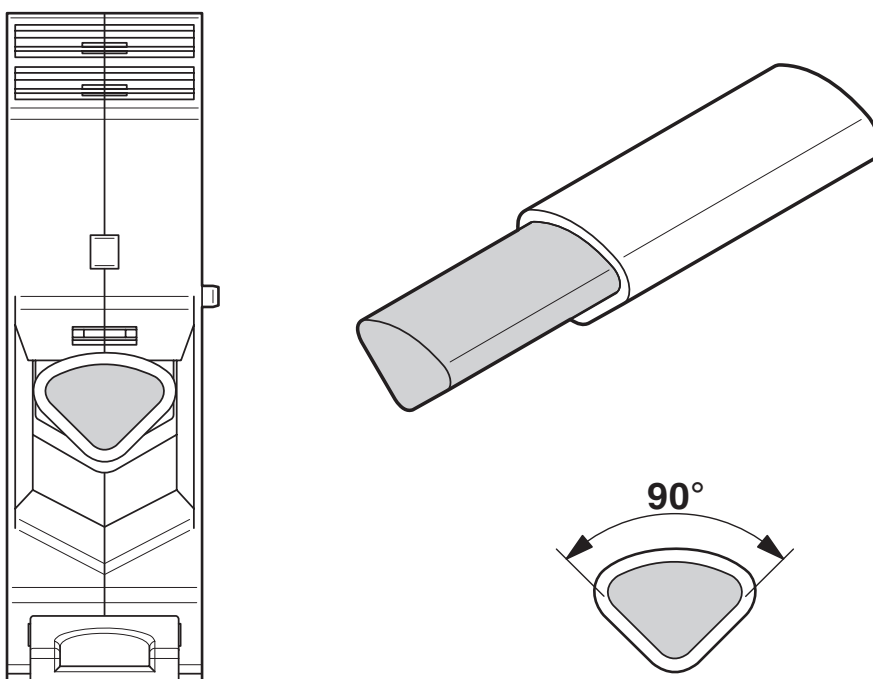
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## Drawings

Dimensional drawing



Schematic diagram



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

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Circuit diagram



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