

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



3076633

<https://www.phoenixcontact.com/pc/products/3076633>

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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: direct screw connection, color: gray/blue/black-yellow

## Commercial data

Item number	3076633
Packing unit	2 pc
Minimum order quantity	1 pc
Product key	BE1311
Catalog page	Page 267 (C-1-2017)
GTIN	4046356654210
Weight per piece (including packing)	2,501 g
Weight per piece (excluding packing)	2,501 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
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### Connection data

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

### Level 1 above 1 below 1

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.
Nominal cross section	240 mm <sup>2</sup>

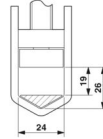
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## Dimensions

Dimensional drawing	
Width	180 mm
Height	124 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
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## Mechanical tests

### Mechanical strength

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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
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## Mounting

Mounting type	direct screw connection
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## Drawings

### Circuit diagram



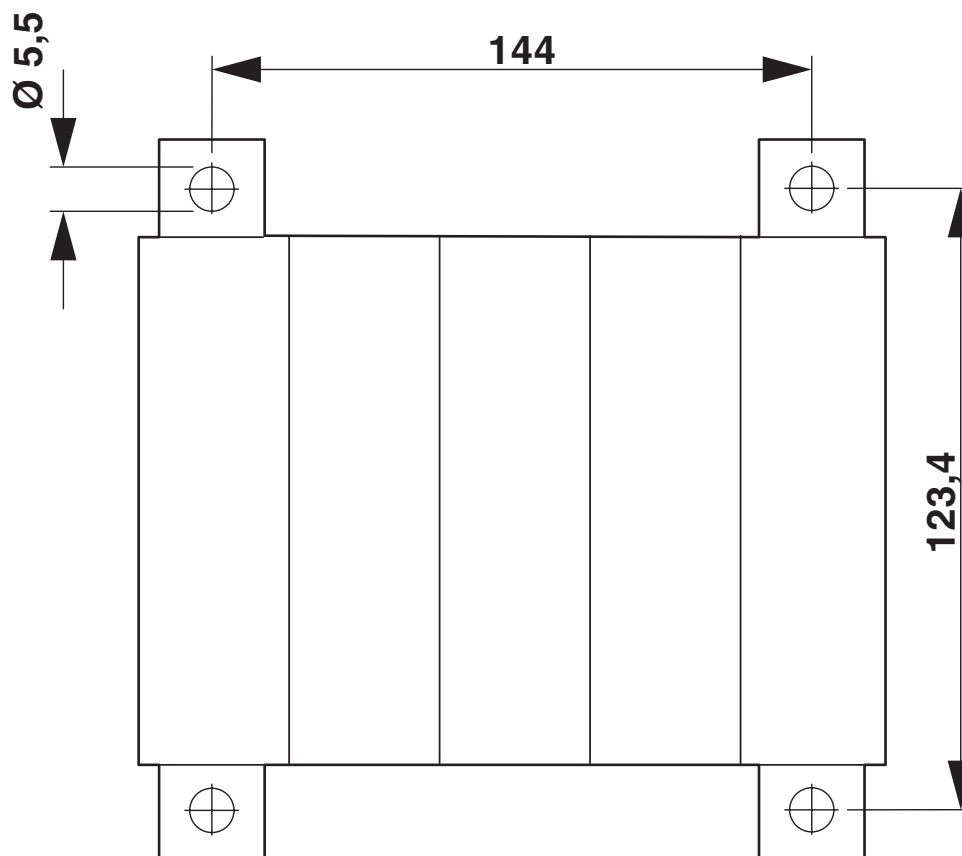
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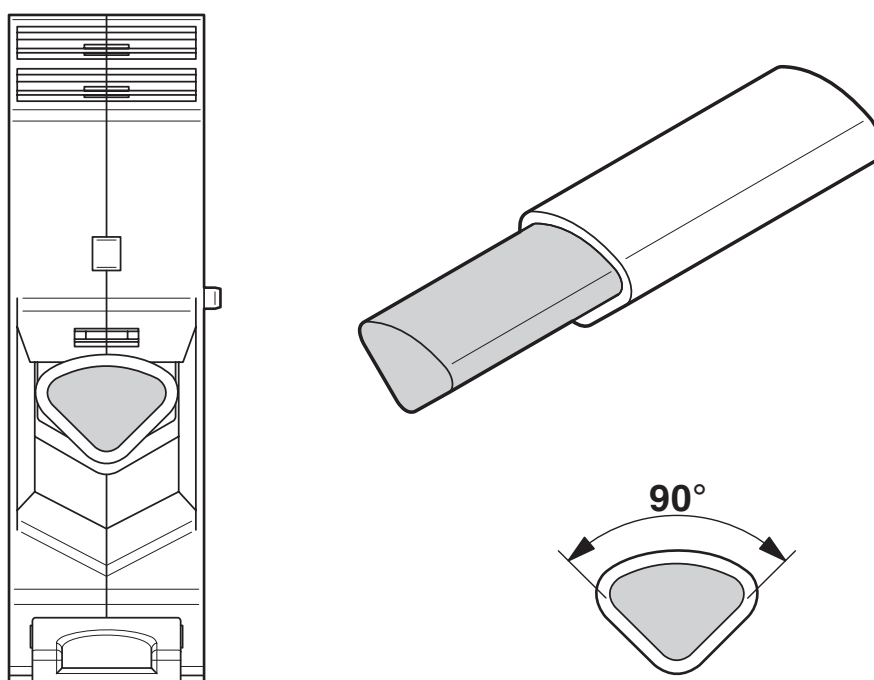
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Dimensional drawing



Schematic diagram



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

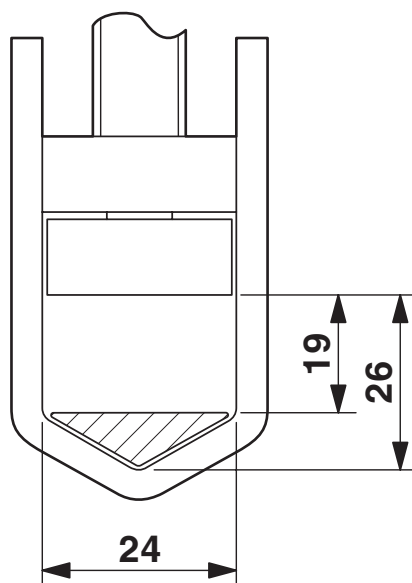
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Dimensional drawing



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