

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



3076390

<https://www.phoenixcontact.com/pc/products/3076390>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 415 A, number of connections: 8, number of positions: 4, 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

## Commercial data

Item number	3076390
Packing unit	2 pc
Minimum order quantity	1 pc
Product key	BE1311
Catalog page	Page 267 (C-1-2017)
GTIN	4046356653978
Weight per piece (including packing)	1,986 g
Weight per piece (excluding packing)	1,986 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	4
Number of connections	8
Number of rows	1
Potentials	4

### 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	8
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>

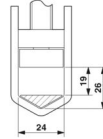
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## Dimensions

Dimensional drawing	
Width	144 mm
Height	123.6 mm

## Material specifications

Color	gray/blue
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	NS 35/15
	NS 32

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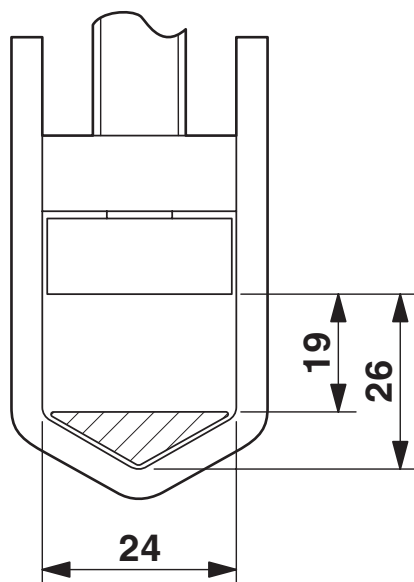
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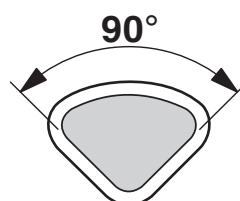
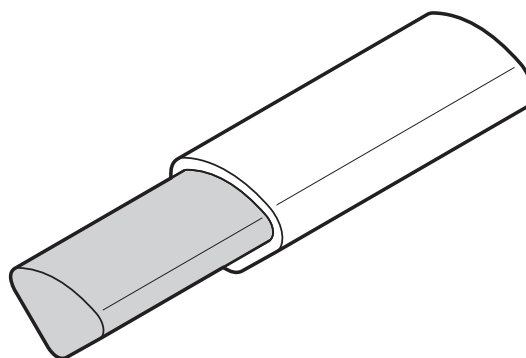
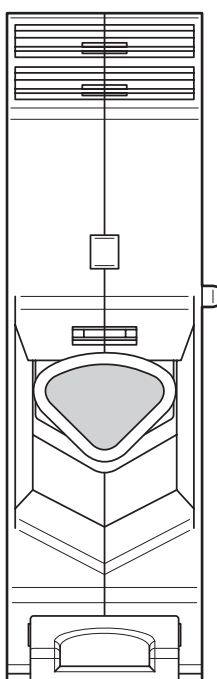


## Drawings

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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## Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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