

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



3076471

<https://www.phoenixcontact.com/za/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 mm², cross section: 70 mm² - 240 mm², mounting type: NS 35/15, NS 32, color: gray/blue/black-yellow

Commercial data

Item number	3076471
Packing unit	2 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BE1
Product key	BE1311
Catalog page	Page 267 (C-1-2017)
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
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Connection data

Number of connections per level	10
Nominal cross section	240 mm ²

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 ² ... 240 mm ²
Cross section AWG	2/0 ... 500 kcmil (converted acc. to IEC)
Conductor cross section flexible	70 mm ² ... 240 mm ²
Conductor cross section, flexible [AWG]	2/0 ... 500 kcmil (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	70 mm ² ... 185 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	70 mm ² ... 185 mm ²
Cross-section with insertion bridge, rigid	240 mm ²
Cross-section with insertion bridge, flexible	185 mm ²
2 conductors with same cross section, solid	35 mm ² ... 95 mm ²
2 conductors with same cross section, flexible	50 mm ² ... 95 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	35 mm ² ... 50 mm ²
Nominal current	415 A
Maximum load current	415 A (with 240 mm ² 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 ²

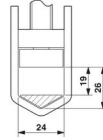
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Dimensions

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 ²	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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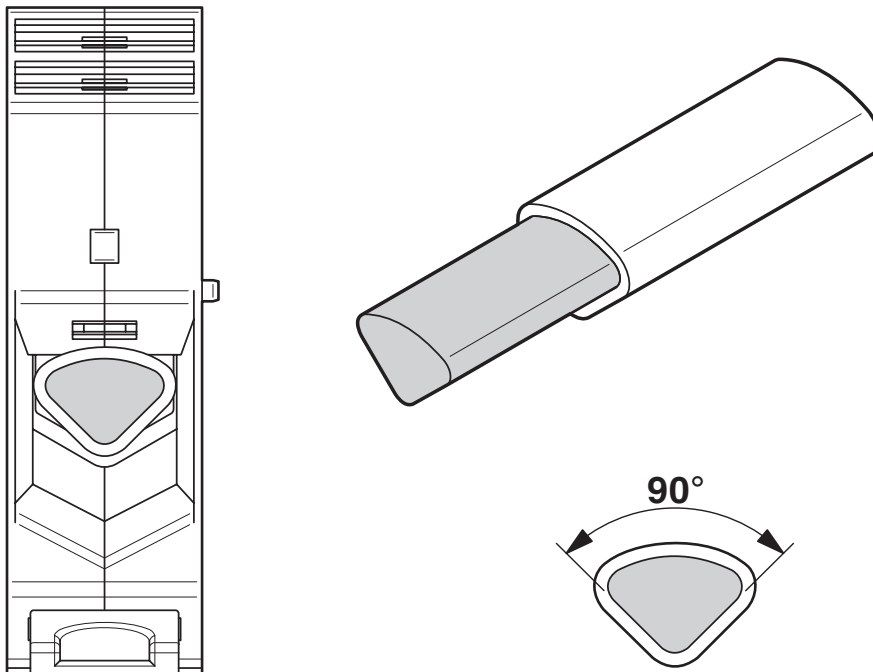
<https://www.phoenixcontact.com/za/products/3076471>

Drawings

Circuit diagram



Schematic diagram



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

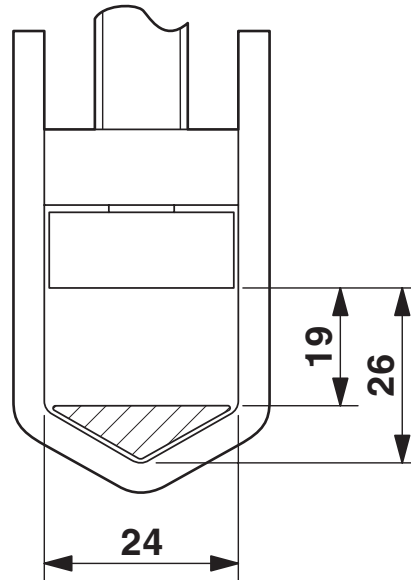
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Dimensional drawing



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Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

i Note: Applying some accessories below might limit this product.

EB 3-36/UKH - Insertion bridge

0201414

<https://www.phoenixcontact.com/za/products/0201414>



Insertion bridge, pitch: 36 mm, number of positions: 3, color: gray

i Max. current carrying capacity: 382 A

EB 2-36/UKH - Insertion bridge

0201401

<https://www.phoenixcontact.com/za/products/0201401>



Insertion bridge, pitch: 36 mm, number of positions: 2, color: gray

i Max. current carrying capacity: 382 A

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WS-2K - Warning label

1004513

<https://www.phoenixcontact.com/za/products/1004513>

Adhesive warning plate, self-adhesive, black print: lightning flash with mixed version - "Vorsicht Spannung - Attention Danger" size of label: 32 x 26 mm



UKH 150/240 EP - Insertion profile

3009244

<https://www.phoenixcontact.com/za/products/3009244>

Insertion profile, color: silver



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AGK 10-UKH 150/240 - Pick-off terminal block

3003554

<https://www.phoenixcontact.com/za/products/3003554>



Pick-off terminal block, nom. voltage: 1000 V, nominal current: 57 A, number of connections: 1, connection method: Screw connection, Rated cross section: 10 mm², cross section: 0.5 mm² - 10 mm², mounting type: on base element, color: gray

NS 32 PERF 2000MM-VPE 10 - DIN rail perforated

1201002

<https://www.phoenixcontact.com/za/products/1201002>



DIN rail perforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver

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NS 32 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201015

<https://www.phoenixcontact.com/za/products/1201015>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver

NS 35/15 PERF 2000MM - DIN rail perforated

1201730

<https://www.phoenixcontact.com/za/products/1201730>



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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NS 35/15 UNPERF 2000MM - DIN rail, unperforated

1201714

<https://www.phoenixcontact.com/za/products/1201714>



DIN rail, unperforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

NS 35/15 WH PERF 2000MM - DIN rail perforated

0806602

<https://www.phoenixcontact.com/za/products/0806602>



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: white

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NS 35/15 WH UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1204135

<https://www.phoenixcontact.com/za/products/1204135>



DIN rail, unperforated, Pack of 10 (20 m), similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver

NS 35/15 AL UNPERF 2000MM - DIN rail, unperforated

1201756

<https://www.phoenixcontact.com/za/products/1201756>



DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

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NS 35/15 ZN PERF 2000MM - DIN rail perforated

1206599

<https://www.phoenixcontact.com/za/products/1206599>



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver

NS 35/15 ZN UNPERF 2000MM - DIN rail, unperforated

1206586

<https://www.phoenixcontact.com/za/products/1206586>



DIN rail, unperforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver

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NS 35/15 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201895

<https://www.phoenixcontact.com/za/products/1201895>



DIN rail, unperforated, Pack of 10 (20 m), similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

NS 35/15 CAP - End cap

1206573

<https://www.phoenixcontact.com/za/products/1206573>

DIN rail end piece, for DIN rail NS 35/15



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ZB 22:UNBEDRUCKT - Zack marker strip

0811862

<https://www.phoenixcontact.com/za/products/0811862>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 22 mm, lettering field size: 10.5 x 21.8 mm, Number of individual labels: 4

ZB 22 CUS - Zack marker strip

0824949

<https://www.phoenixcontact.com/za/products/0824949>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 22 mm, lettering field size: 10.5 x 21.8 mm, Number of individual labels: 4

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ZB 22,LGS:L1-N,PE - Zack marker strip

0811875

<https://www.phoenixcontact.com/za/products/0811875>



Zack marker strip, Strip, white, labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 22 mm, lettering field size: 10.5 x 21.8 mm, Number of individual labels: 50

E/AL-NS 32 - End bracket

1201659

<https://www.phoenixcontact.com/za/products/1201659>



End clamp, for end support of UKH 50 - UKH 240, is pushed onto DIN rail NS 32 and fixed with 2 screws, width: 10 mm, color: Aluminum

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E/AL-NS 35 - End bracket

1201662

<https://www.phoenixcontact.com/za/products/1201662>



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

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