

# High-current terminal block - UKH 240-3L/FE - 3076439

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High-current terminal block, Connection method: Screw connection, Number of connections: 8, Number of positions: 4, Cross section: 70 mm<sup>2</sup> - 240 mm<sup>2</sup>, AWG: 2/0 - 500 kcmil, Width: 144 mm, Height: 123.6 mm, Color: gray/black-yellow, Mounting type: NS 35/15, NS 32

The figure shows UKH 150-3L/FE

## 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	
GTIN	4046356654012

## Technical data

### General

Number of positions	4
Number of levels	1
Number of connections	8
Potentials	4
Nominal cross section	240 mm <sup>2</sup>
Color	gray/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	144 mm
Length	100 mm
Height	123.6 mm
Height NS 35/15	131.5 mm
Height NS 32	129 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

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## Technical data

### Connection data

Max. AWG conductor cross section, flexible	500 kcmil
Conductor cross section flexible, with ferrule without plastic sleeve min.	70 mm <sup>2</sup>
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	UL
	IEC 60947-7-1
Flammability rating according to UL 94	V0

### Environmental Product Compliance

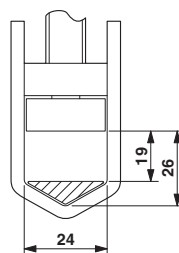
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Circuit diagram

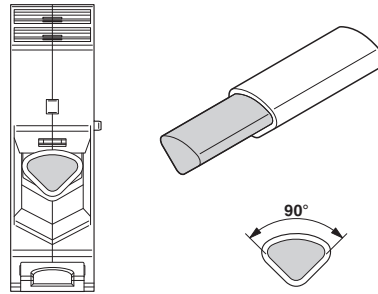


Dimensional drawing



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Schematic diagram



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

## Approvals

### Approvals

Approvals

UL Recognized / EAC

Ex Approvals

### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 60425
	B	C	
mm <sup>2</sup> /AWG/kcmil	2/0-500	2/0-500	
Nominal current I <sub>N</sub>	380 A	380 A	
Nominal voltage U <sub>N</sub>	600 V	600 V	

EAC		7500651.22.01.00246
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