

High-current terminal block - UKH 150-F - 3247035

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



High-current terminal block, Connection method: Screw connection, Cross section: 35 mm² - 150 mm², AWG: 2 - 300 kcmil, Width: 31 mm, Height: 111 mm, Color: gray, Mounting type: ct screw connection

for direct mounting

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	1 STK
Minimum order quantity	10 STK
Custom tariff number	85369010
Country of origin	Poland

Technical data

Environmental Product Compliance

China RoHS	No hazardous substances above threshold values
------------	--

General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	150 mm ²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0

High-current terminal block - UKH 150-F - 3247035

Technical data

General

Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Maximum load current	309 A (with 150 mm ² conductor cross section)
Nominal current I _N	309 A
Nominal voltage U _N	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	31 mm
Length	136.1 mm
Height	111 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.	35 mm ²
Conductor cross section solid max.	150 mm ²
Conductor cross section AWG min.	2

High-current terminal block - UKH 150-F - 3247035

Technical data

Connection data

Conductor cross section AWG max.	300 kcmil
Conductor cross section flexible min.	50 mm ²
Conductor cross section flexible max.	150 mm ²
Min. AWG conductor cross section, flexible	1/0
Max. AWG conductor cross section, flexible	300 kcmil
Conductor cross section flexible, with ferrule without plastic sleeve min.	50 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	150 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	50 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	150 mm ²
Cross section with insertion bridge, solid max.	150 mm ²
Cross section with insertion bridge, stranded max.	120 mm ²
2 conductors with same cross section, solid min.	25 mm ²
2 conductors with same cross section, solid max.	50 mm ²
2 conductors with same cross section, stranded min.	35 mm ²
2 conductors with same cross section, stranded max.	50 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	25 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	50 mm ²
Cross section with insertion bridge, solid max.	150 mm ²
Cross section with insertion bridge, stranded max.	120 mm ²
Stripping length	40 mm
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

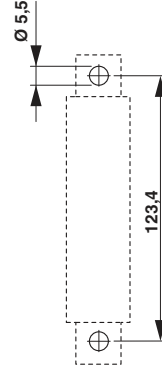
Drawings

High-current terminal block - UKH 150-F - 3247035

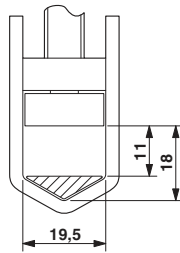
Circuit diagram



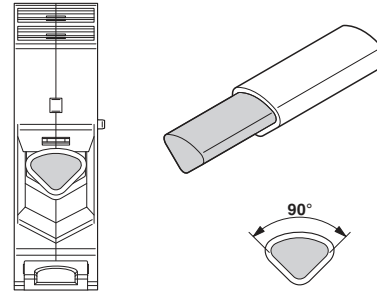
Dimensional drawing



Dimensional drawing



Schematic diagram



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

Classifications

eCl@ss

eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 4.0	EC000897
ETIM 5.0	EC000897

High-current terminal block - UKH 150-F - 3247035

Classifications

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

Approvals


Approvals

Approvals

UL Recognized / EAC / EAC

Ex Approvals

Approval details

UL Recognized  http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425		
	B	C
mm ² /AWG/kcmil	2-300	2-300
Nominal current I _N	285 A	285 A
Nominal voltage U _N	600 V	600 V

EAC EAC-Zulassung

EAC 7500651.22.01.00246

Accessories

Accessories

Insertion bridge

High-current terminal block - UKH 150-F - 3247035

Accessories

Insertion bridge - EB 3-31/UKH - 0201391



Insertion bridge, Pitch: 31 mm, Number of positions: 3, Color: gray

Insertion bridge - EB 2-31/UKH - 0201388



Insertion bridge, Pitch: 31 mm, Number of positions: 2, Color: gray

Labeled terminal marker

Warning label - WS-2K - 1004513



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

Zack marker strip - ZB 22 CUS - 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: 10.5 x 21.8 mm

Marker for terminal blocks - ZB 22,LGS:L1-N,PE - 0811875



Marker for terminal blocks, Strip, white, labeled, Printed horizontally: L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 22 mm, Lettering field: 10.5 x 21.8 mm

High-current terminal block - UKH 150-F - 3247035

Accessories

Marker for terminal blocks - TMT 10 R CUS - 0824500



Marker for terminal blocks, can be ordered: By line, white, labeled according to customer specifications, Mounting type: Snap into universal marker groove, Snap into flat marker groove, for terminal block width: 10.2 mm, Lettering field: 6.35 x 10.15 mm

Zack marker strip - ZB 25 CUS - 0802752



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 25 mm, Lettering field: 25 x 10 mm

Mounting material

Insertion profile - UKH 150/240 EP - 3009244



Insertion profile, Color: silver

Pick-off terminal block

Pick-off terminal block - AGK 10-UKH 150/240 - 3003554



Pick-off terminal block, Connection method: Screw connection, Cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, Width: 10.2 mm, Height: 34.7 mm, Color: gray, Mounting type: On base element

Socket spanner

High-current terminal block - UKH 150-F - 3247035

Accessories

Tool - VDE-ISS 8 - 1201947



Allen wrench, fully insulated, safety tool in accordance with EN 60900, length: 150 mm, handle width: 110 mm, for all terminal blocks with 10 mm Allen screw

Terminal marking

Zack marker strip - ZB 22:UNBEDRUCKT - 0811862



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 22 mm, Lettering field: 10.5 x 21.8 mm

Marker for terminal blocks - TMT 10 R - 0816210



Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X, THERMOMARK S1.1, Perforated, Mounting type: Snap into universal marker groove, Snap into flat marker groove, for terminal block width: 10.2 mm, Lettering field: 6.35 x 10.15 mm

Zack marker strip - ZB 25:UNPRINTED - 0802751



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Marker pen, Mounting type: Snap into tall marker groove, for terminal block width: 25 mm, Lettering field: 25 x 10 mm