High-current terminal block - UKH 50 - 3009118

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: 16 mm² - 70 mm², AWG: 6 - 2/0, Width: 20 mm, Height: 75.8 mm, Color: gray, Mounting type: NS 35/15, NS 32

Product Features

- 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 pc
GTIN	4 017918 091644
Weight per Piece (excluding packing)	132.0 g
Custom tariff number	85369010
Country of origin	China

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	50 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV

High-current terminal block - UKH 50 - 3009118

Technical data

General

Pollution degree	3
Overvoltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	150 A (with 50 mm² conductor cross section)
Nominal current I_N	150 A
Nominal voltage U_N	1000 V
Open side panel	nein
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	25 mm² / 4.5 kg
	50 mm² / 9.5 kg
	70 mm²/10.4 kg
Result of bending test	Test passed
Conductor cross section tensile test	25 mm²
Tractive force setpoint	135 N
Conductor cross section tensile test	50 mm²
Tractive force setpoint	236 N
Conductor cross section tensile test	70 mm²
Tractive force setpoint	285 N
Tensile test result	Test passed
Tight fit on carrier	NS 32/NS 35
Setpoint	10 N
Result of tight fit test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	50 mm²

High-current terminal block - UKH 50 - 3009118

Technical data

General

Short-time current	6 kA
Short circuit stability result	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C

Dimensions

Width	20 mm
Length	70.5 mm
Height	75.8 mm
Height NS 35/15	83.5 mm
Height NS 32	81 mm

Connection data

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.	16 mm²
Conductor cross section solid max.	70 mm²
Conductor cross section AWG min.	6
Conductor cross section AWG max.	2/0
Conductor cross section flexible min.	25 mm²
Conductor cross section flexible max.	70 mm²
Min. AWG conductor cross section, flexible	3
Max. AWG conductor cross section, flexible	2/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	25 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	25 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	50 mm²
2 conductors with same cross section, solid min.	10 mm²
2 conductors with same cross section, solid max.	16 mm²
2 conductors with same cross section, stranded min.	10 mm²
2 conductors with same cross section, stranded max.	16 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	10 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	16 mm²

High-current terminal block - UKH 50 - 3009118

Technical data

Connection data

Connection in acc. with standard	IEC/EN 60079-7
Conductor cross section solid min.	16 mm²
Conductor cross section solid max.	50 mm²
Conductor cross section AWG min.	6
Conductor cross section AWG max.	1/0
Conductor cross section flexible min.	25 mm²
Conductor cross section flexible max.	50 mm²
Stripping length	24 mm
Internal cylindrical gage	B10
Screw thread	M6
Tightening torque, min	6 Nm
Tightening torque max	8 Nm

Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
Flammability rating according to UL 94	V0

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 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897

UNSPSC

UNSPSC 6.01	30211811

High-current terminal block - UKH 50 - 3009118

Classifications

UNSPSC

UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / LR / GL / DNV / PRS / CCA / VDE Zeichengenehmigung / EAC / EAC / IECEE CB Scheme / cULus Recognized

Ex Approvals

IECEx / ATEX / UL Recognized / cUL Recognized / cULus Recognized

Approvals submitted

Approval details

CSA

	B	C
mm²/AWG/kcmil	6-1/0	6-1/0
Nominal current IN	150 A	150 A
Nominal voltage UN	600 V	600 V

UL Recognized

	B	C
mm²/AWG/kcmil	6-1/0	6-1/0
Nominal current IN	150 A	150 A
Nominal voltage UN	600 V	600 V

High-current terminal block - UKH 50 - 3009118

Approvals

cUL Recognized

	B	C
mm²/AWG/kcmil	6-1/0	6-1/0
Nominal current IN	150 A	150 A
Nominal voltage UN	600 V	600 V

LR

GL

DNV

PRS

CCA

mm²/AWG/kcmil	50
Nominal voltage UN	1000 V

VDE Zeichengenehmigung

Nominal current IN	150 A
Nominal voltage UN	1000 V

EAC

EAC

IECEE CB Scheme

Nominal voltage UN	1000 V

High-current terminal block - UKH 50 - 3009118

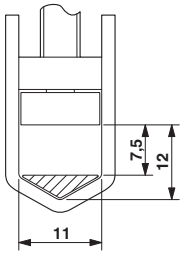
Approvals

cULus Recognized

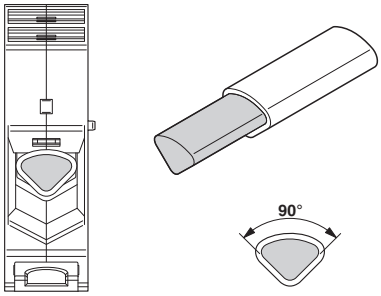
Drawings

Circuit diagram

Dimensional drawing



Schematic diagram



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