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High-current terminal block - UKH 70/4X10 - 3213142

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High-current terminal block, Connection method: Screw connection, Number of positions: 1, Cross section: 16 mm² - 95 mm², AWG: 4 - 3/0, Width: 20.3 mm, Height: 79.4 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15, NS 35/15-2,3, NS 32

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	10 STK
GTIN	 4 046356 813334

Technical data

General

Number of levels	1
Number of connections	5
Nominal cross section	70 mm ²
Color	gray
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
Ambient temperature (operation)	-40 °C ... 120 °C
Connection in acc. with standard	IEC 60947-7-1
Maximum load current	192 A (in case of a 70 mm ² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal current I _N	192 A
Nominal voltage U _N	1500 V
Nominal current I _N	57 A

High-current terminal block - UKH 70/4X10 - 3213142

Technical data

General

Nominal voltage U_N	1500 V
Open side panel	No
Number of positions	1
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV AC
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	25 mm ² / 4.5 kg
	70 mm ² /10.4 kg
	95 mm ² /14 kg
Tensile test result	Test passed
Conductor cross section tensile test	25 mm ²
Tractive force setpoint	135 N
Conductor cross section tensile test	70 mm ²
Tractive force setpoint	285 N
Conductor cross section tensile test	95 mm ²
Tractive force setpoint	351 N
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35/NS 32
Setpoint	10 N
Result of voltage-drop test	Test passed
Requirements, voltage drop	≤ 1.6 mV
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	70 mm ²
Short-time current	1.2 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 2, bogie mounted
Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s ²) ² /Hz

High-current terminal block - UKH 70/4X10 - 3213142

Technical data

General

Acceleration	3.12 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	30g
Shock duration	18 ms
Test directions	X-, Y- and Z-axis (pos. and neg.)
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

Dimensions

Width	20.3 mm
Length	88.5 mm
Height	79.4 mm
Height NS 35/7,5	80 mm
Height NS 35/15	87.5 mm
Height NS 32	85 mm

Connection data

Connection method	Screw connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	16 mm ²
Conductor cross section solid max.	95 mm ²
Conductor cross section AWG min.	4
Conductor cross section AWG max.	3/0
Conductor cross section flexible min.	25 mm ²
Conductor cross section flexible max.	70 mm ²
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.	16 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	70 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	16 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	70 mm ²
2 conductors with same cross section, solid min.	16 mm ²
2 conductors with same cross section, solid max.	25 mm ²
2 conductors with same cross section, stranded min.	16 mm ²
2 conductors with same cross section, stranded max.	25 mm ²

High-current terminal block - UKH 70/4X10 - 3213142

Technical data

Connection data

2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	16 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	25 mm ²
Stripping length	24 mm
Internal cylindrical gage	A11
Screw thread	M8
Tightening torque, min	8 Nm
Tightening torque max	10 Nm
Connection method	Screw connection
Conductor cross section solid min.	1.5 mm ²
Conductor cross section solid max.	16 mm ²
Conductor cross section AWG min.	16
Conductor cross section AWG max.	6
Conductor cross section flexible min.	1.5 mm ²
Conductor cross section flexible max.	10 mm ²
Min. AWG conductor cross section, flexible	16
Max. AWG conductor cross section, flexible	6
Conductor cross section flexible, with ferrule without plastic sleeve min.	1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	10 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	1.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm ²
2 conductors with same cross section, solid min.	1.5 mm ²
2 conductors with same cross section, solid max.	2.5 mm ²
2 conductors with same cross section, stranded min.	1.5 mm ²
2 conductors with same cross section, stranded max.	2.5 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	1.5 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	2.5 mm ²
Stripping length	10 mm
Internal cylindrical gage	A5
Screw thread	M4
Tightening torque, min	1.4 Nm
Tightening torque max	1.5 Nm

Standards and Regulations

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

High-current terminal block - UKH 70/4X10 - 3213142

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	27141133
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897

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 / cUL Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized	
mm ² /AWG/kcmil	4-3/0
Nominal current I _N	176 A
Nominal voltage U _N	1000 V

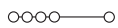
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Approvals

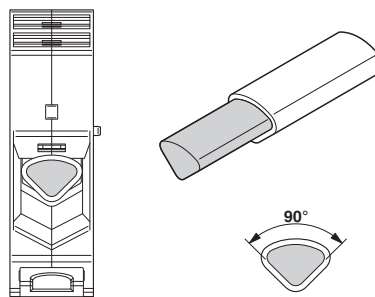
cUL Recognized	
	C
mm ² /AWG/kcmil	4-3/0
Nominal current I _N	176 A
Nominal voltage U _N	1000 V

Drawings

Circuit diagram



Schematic diagram



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

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