


## UKH 70

Order No.: 3213140



Feed-through terminal block, Connection method: Screw connection,  
Number of positions: 1, Cross section: 16 mm<sup>2</sup> - 95 mm<sup>2</sup>,  
AWG: 4 - 3/0, Width: 20.3 mm, Color: gray, Mounting type: NS  
35/15, NS 32

### Commercial data

EAN	 4 046356 549202
Pack	10
Customs tariff	85369010
Gross weight in pieces	159.12 g
Country of Origin	CN
Catalog page information	Page 31 (CL1-2011)

### Product notes

WEEE/RoHS-compliant since:  
26/11/2009



Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation at <http://www.download.phoenixcontact.com>. The General Terms and Conditions of Use apply to Internet downloads.

### Technical data

#### General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0

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**Dimensions**

Width	20.3 mm
Length	70.5 mm
Height NS 35/7,5	80 mm
Height NS 35/15	87.5 mm
Height NS 32	85.5 mm

**Technical data**

Maximum load current	192 A (At 70 mm <sup>2</sup> conductor cross section)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I <sub>N</sub>	192 A
Nominal voltage U <sub>N</sub>	1000 V
Open side panel	nein
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
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 mm <sup>2</sup> / 4.5 kg
Result of bending test	Test passed
Conductor cross section tensile test	25 mm <sup>2</sup>
Tractive force setpoint	135 N
Conductor cross section tensile test	70 mm <sup>2</sup>
Tractive force setpoint	285 N
Conductor cross section tensile test	95 mm <sup>2</sup>

Tractive force setpoint	351 N
Tensile test result	Test passed
Tight fit on carrier	NS 35/NS 32
Setpoint	10 N
Result of tight fit test	Test passed
Requirements, voltage drop	$\leq 3.2$ mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	70 mm <sup>2</sup>
Short-time current	8.4 kA
Short circuit stability result	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 1, class B, on vehicle body
Test frequency	$f_1 = 5$ Hz to $f_2 = 150$ Hz
ASD level	0.02 g <sup>2</sup> /Hz
Acceleration	0.8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Oscillation, broadband noise test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5 g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	130 °C

#### Connection data

Conductor cross section solid min.	16 mm <sup>2</sup>
Conductor cross section solid max.	95 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	4
Conductor cross section AWG/kcmil max	3/0

Conductor cross section stranded min.	25 mm <sup>2</sup>
Conductor cross section stranded max.	70 mm <sup>2</sup>
Min. AWG conductor cross section, stranded	3
Max. AWG conductor cross section, stranded	2/0
Conductor cross section stranded, with ferrule without plastic sleeve min.	16 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	70 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	16 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	70 mm <sup>2</sup>
2 conductors with same cross section, solid min.	16 mm <sup>2</sup>
2 conductors with same cross section, solid max.	25 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	16 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	16 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	25 mm <sup>2</sup>
Connection method	Screw connection
Stripping length	24 mm
Internal cylindrical gage	A11
Screw thread	M8
Tightening torque, min	8 Nm
Tightening torque max	10 Nm

## Certificates



Certification

CSA, cULus Recognized, GOST, VDE Zeichengenehmigung, IECCEB CB Scheme

Certifications applied for:

Certification Ex:

<b>Accessories</b>		
Item	Designation	Description
<b>Assembly</b>		
3001763	AGK 10-UKH 50	Pick-off terminal block, Connection method: Special and hybrid connection, Cross section: 0.5 mm <sup>2</sup> - 10 mm <sup>2</sup> , AWG: 20 - 8, Width: 10.2 mm, Height: 34.7 mm, Color: gray, Mounting type: On base element
1201659	E/AL-NS 32	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
1201662	E/AL-NS 35	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
1201002	NS 32 PERF 2000MM	G-profile DIN rail, material: Steel, perforated, height 15 mm, width 32 mm, length 2 m
1201015	NS 32 UNPERF 2000MM	G-profile DIN rail, material: Steel, unperforated, height 15 mm, width 32 mm, length 2 m
1201756	NS 35/15 AL UNPERF 2000MM	DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm
1206573	NS 35/15 CAP	DIN rail end piece, for DIN rail NS 35/15
1201895	NS 35/15 CU UNPERF 2000MM	DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m
1201730	NS 35/15 PERF 2000MM	DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm
1201714	NS 35/15 UNPERF 2000MM	DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m
0806602	NS 35/15 WH PERF 2000MM	DIN rail 35 mm (NS 35)
1204135	NS 35/15 WH UNPERF 2000MM	DIN rail 35 mm (NS 35)
1206599	NS 35/15 ZN PERF 2000MM	DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m
1206586	NS 35/15 ZN UNPERF 2000MM	DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m
<b>General</b>		
3213195	FBI 2-20 N	Fixed bridge, Number of positions: 2, Color: silver
3213205	FBI 3-20 N	Fixed bridge, Number of positions: 3, Color: silver
<b>Plug/Adapter</b>		
3009228	UKH 50 EP	Insertion profile, Color: silver

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## Tools

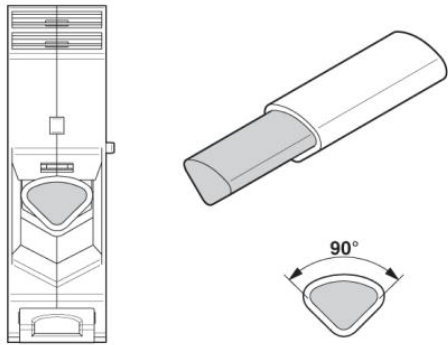
1201934	VDE-ISS 6	Allen wrench, fully insulated, safety tool in accordance with EN 60900, length: 150 mm, handle width: 110 mm, for all terminal blocks with 8 mm Allen screw
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## Drawings

### Circuit diagram



### Schematic diagram



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

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