

Feed-through terminal block - UKH 70 - 3213140

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Feed-through 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: 78.3 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15, NS 32

Product Features

- ✓ Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base
- ✓ Tested for railway applications
- ✓ 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

package_quantity	10
GTIN	4046356549202

Technical data

General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0
Area of application	Railway industry
Area of application	Mechanical engineering
Area of application	Plant engineering

General

Maximum load current	192 A (At 70 mm ² 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 _N	192 A
Nominal voltage U _N	1000 V
Open side panel	nein
Number of positions	1

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Technical data

General

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 ² / 4.5 kg
Bending test conductor cross section/weight	70 mm ² /10.4 kg
Bending test conductor cross section/weight	95 mm ² /14 kg
Result of bending test	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
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	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	70 mm ²
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, body mounted
Test frequency	f ₁ = 5 Hz to f ₂ = 150 Hz
ASD level	0.02 g ² /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

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Technical data

General

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

Dimensions

Width	20.3 mm
Length	70.5 mm
Height	78.3 mm
Height NS 35/7,5	80 mm
Height NS 35/15	87.5 mm
Height NS 32	85.5 mm

Connection data

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 mm ²
Conductor cross section solid max.	95 mm ²
Conductor cross section AWG/kcmil min.	4
Conductor cross section AWG/kcmil max	3/0
Conductor cross section stranded min.	25 mm ²
Conductor cross section stranded max.	70 mm ²
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 ²
Conductor cross section stranded, with ferrule without plastic sleeve max.	70 mm ²
Conductor cross section stranded, with ferrule with plastic sleeve min.	16 mm ²
Conductor cross section stranded, 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
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

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Connection data

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

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

ETIM

ETIM 2.0	EC000897
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

ATEX / ATEX / IECEx / CSA / UL Recognized / cUL Recognized / VDE Zeichengenehmigung / IECEx CB Scheme / cULus Recognized /

Approval details

ATEX 	
Nominal voltage UN	690 V

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approvals

Nominal current IN	180 A
mm²/AWG/kcmil	25-70

	
Nominal voltage UN	690 V
Nominal current IN	180 A
mm²/AWG/kcmil	25-70

IECEX	
Nominal voltage UN	690 V
Nominal current IN	180 A
mm²/AWG/kcmil	25-70

CSA 		
Usegroups	B	C
Nominal voltage UN	600 V	1000 V
Nominal current IN	192 A	192 A
mm²/AWG/kcmil	6	6

UL Recognized 		
Usegroups	B	C
Nominal voltage UN	1000 V	1000 V
Nominal current IN	192 A	192 A
mm²/AWG/kcmil	6	6

cUL Recognized 		
Usegroups	B	C
Nominal voltage UN	1000 V	1000 V
Nominal current IN	192 A	192 A
mm²/AWG/kcmil	6	6

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approvals

VDE Zeichengenehmigung 	
Nominal voltage UN	1000 V
Nominal current IN	
mm²/AWG/kcmil	

IECEE CB Scheme 	
Nominal voltage UN	1000 V
Nominal current IN	
mm²/AWG/kcmil	

cULus Recognized 	
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accessories

Pick-off terminal block

AGK 10-UKH 50 - 3001763



Mounting material

UKH 50 EP - 3009228



Socket spanner

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accessories

VDE-ISS 6 - 1201934



Bridge

FBI 2-20 N - 3213195



FBI 3-20 N - 3213205



Mounting rail

NS 32 PERF 2000MM - 1201002



NS 32 UNPERF 2000MM - 1201015



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accessories

NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



NS 35/15 WH PERF 2000MM - 0806602



NS 35/15 WH UNPERF 2000MM - 1204135



NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 ZN PERF 2000MM - 1206599



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accessories

NS 35/15 ZN UNPERF 2000MM - 1206586



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



End block

E/AL-NS 32 - 1201659



E/AL-NS 35 - 1201662



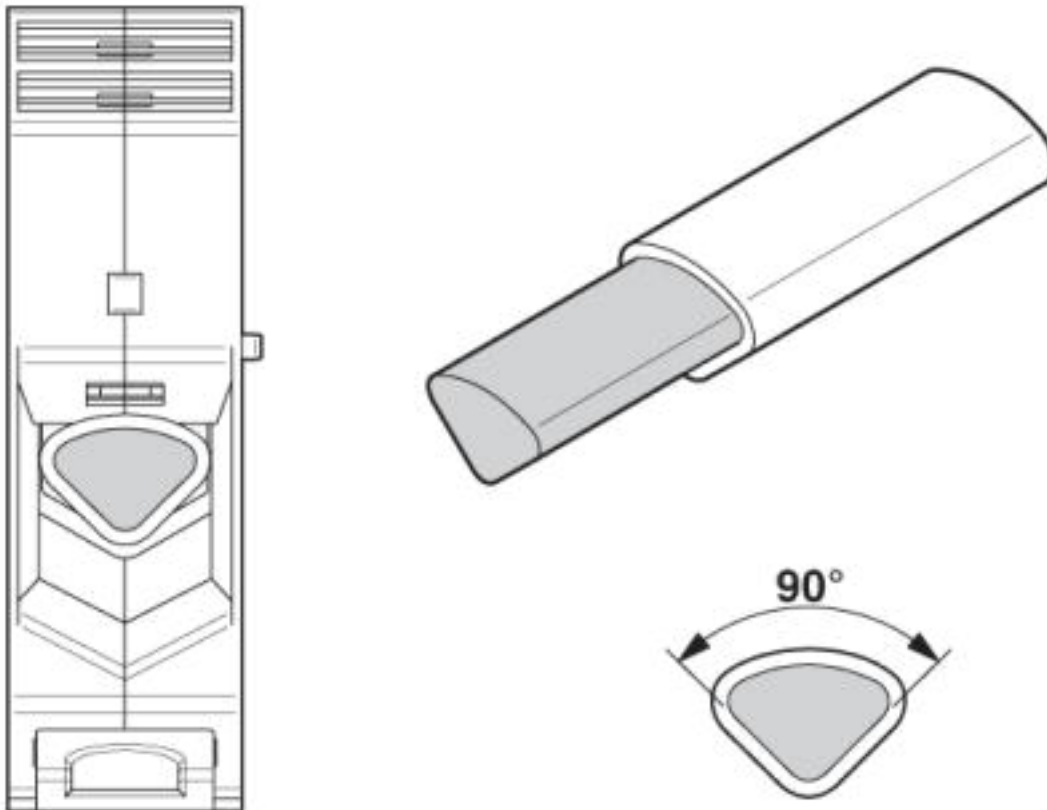
Drawings

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Circuit diagram



Schematic diagram



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

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