

UKH 50-FE-IB - High-current terminal block



3009080
<https://www.phoenixcontact.com/us/products/3009080>

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High-current terminal block, with Allen screws, nom. voltage: 1000 V, nominal current: 150 A, number of connections: 2, number of positions: 1, connection method: Screw connection, cross section: 16 mm² - 70 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, NS 35/15-2,3, color: black/yellow

Your advantages

- 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

Commercial data

Item number	3009080
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	BE1311
GTIN	4046356762717
Weight per piece (including packing)	120.59 g
Weight per piece (excluding packing)	120.59 g
Country of origin	IN

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Technical data

Product properties

Product type	High current terminal block
Number of positions	1
Number of connections	2
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	4.73 W

Connection data

Number of connections per level	2
Nominal cross section	50 mm ²

Level 1 above 1 below 1

Screw thread	M6
Tightening torque	6 ... 8 Nm
Stripping length	24 mm
Internal cylindrical gage	B10
Conductor cross section rigid	16 mm ² ... 70 mm ²
Cross section AWG	4 ... 2/0 (converted acc. to IEC)
Conductor cross section flexible	25 mm ² ... 50 mm ²
Conductor cross section, flexible [AWG]	2 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	25 mm ² ... 50 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	25 mm ² ... 50 mm ²
2 conductors with same cross section, solid	10 mm ² ... 16 mm ²
2 conductors with same cross section, flexible	10 mm ² ... 16 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	10 mm ² ... 16 mm ²
Nominal current	150 A
Maximum load current	150 A (with 50 mm ² conductor cross section)
Nominal voltage	1000 V

Ex data

Rated data (ATEX/IECEx)

Identification	Ex II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C

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Ex-certified accessories	1203343 VDE-ISS 5
	1201659 E/AL-NS 32
	1201662 E/AL-NS 35
List of bridges	Fixed bridge / FBI 2-20-EX / 0201113
	Fixed bridge / FBI 3-20-EX / 0201812
Bridge data	130.5 A / 50 mm ²
Ex temperature increase	40 K (146.5 A / 50 mm ²)
Rated voltage	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)

Ex level General

Rated current	133 A
Maximum load current	133 A
Contact resistance	0.1 mΩ

Ex connection data General

Torque range	6 Nm ... 8 Nm
Nominal cross section	50 mm ²
Rated cross section AWG	1/0
Connection capacity rigid	16 mm ² ... 50 mm ²
Connection capacity AWG	6 ... 1/0
Connection capacity flexible	25 mm ² ... 50 mm ²
Connection capacity AWG	4 ... 1/0
2 conductors with same cross section, solid	10 mm ² ... 16 mm ²
2 conductors with the same cross-section AWG rigid	8 ... 6
2 conductors with same cross section, stranded	10 mm ² ... 16 mm ²
2 conductors with the same cross-section AWG flexible	8 ... 6

Dimensions

Width	20 mm
Height	70.5 mm
Depth on NS 32	81 mm
Depth on NS 35/15	83.5 mm

Material specifications

Color	black/yellow
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C

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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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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

Mechanical properties

Mechanical data

Open side panel	No
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 32
	NS 35/15-2,3

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Classifications

ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

ETIM

ETIM 9.0	EC000897
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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