

# UKH 50-PE/N - Installation ground terminal block

3009163

<https://www.phoenixcontact.com/gb/products/3009163>

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Installation ground terminal block, PE/N block, consisting of a green-yellow ground terminal and a blue terminal block with screw bridge, nom. voltage: 1000 V, nominal current: 150 A, Screw connection, cross section: 16 mm<sup>2</sup> - 50 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: green-yellow

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## Your advantages

- Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base<br/>
- Low contact resistance of the contact surface due to ribbing
- Screw locking by means of spring-loaded elements in the clamping part

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## Technical data

### Product properties

Product type	Ground terminal block
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

PEN function	yes
Number of connections per level	2
Nominal cross section	50 mm <sup>2</sup>
Rated cross section AWG	1/0

### Level 1 above 1 below 1

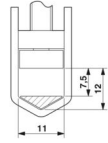
Screw thread	M6
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	6 ... 8 Nm
Stripping length	24 mm
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section rigid	16 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Cross section AWG	4 ... 2 (converted acc. to IEC)
Conductor cross section flexible	25 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	2 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	25 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	25 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Nominal current	150 A
Maximum load current	150 A (with 50 mm <sup>2</sup> conductor cross section)
Nominal voltage	1000 V
Note	Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area.

## Dimensions

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Dimensional drawing	
Width	40 mm
Height	70.5 mm
Depth on NS 32	88.5 mm
Depth on NS 35/7,5	83.5 mm
Depth on NS 35/15	91 mm

## Material specifications

Color	green-yellow
Flammability rating according to UL 94	V2
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))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
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)	27,5 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

### General

Terminal block mounting	6 Nm ... 8 Nm (PE foot with mounting screw, M6)
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### 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, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C

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Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-2
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## Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 32
	NS 35/15-2,3
Terminal block mounting	6 Nm ... 8 Nm (PE foot with mounting screw, M6)

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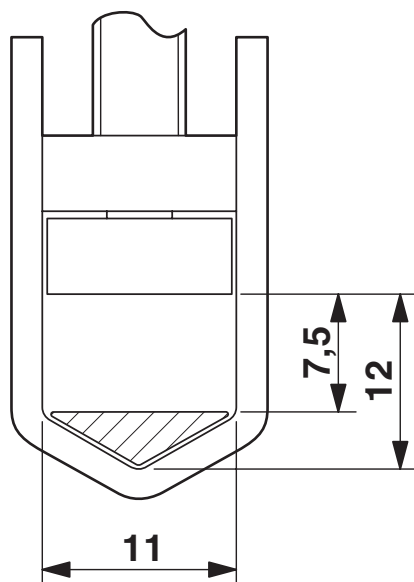
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## Drawings

Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/3009163>



**EAC**

Approval ID: EACKZ 08593

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## Classifications

### ECLASS

ECLASS-11.0	27141125
ECLASS-12.0	27141125
ECLASS-13.0	27250110

### ETIM

ETIM 9.0	EC001329
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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