

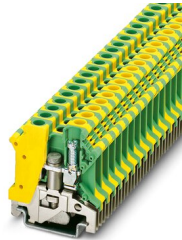
# Protective conductor terminal - TB 6-PE I

3059870

<https://www.phoenixcontact.com/za/products/3059870>

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Protective conductor terminal, number of connections: 2, connection method: Screw connection, cross section: 0.2 mm<sup>2</sup> - 10 mm<sup>2</sup>, mounting: PE foot with mounting screw, M4, mounting type: NS 35/7,5, NS 35/15, NS 32, color: green-yellow

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## Commercial Data

Order Key	3059870
Packing unit	50 pc
Minimum order quantity	1 pc
Sales Key	010
Product Key	BE1421
GTIN	4046356643566
Weight per Piece (including packing)	26,155 g
Weight per Piece (excluding packing)	26,064 g
Customs tariff number	85369010
Country of origin	CN

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## Technical Data

### Product properties

Product type	Ground terminal block
Number of connections	2
Number of rows	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.31 W

### Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	6 mm <sup>2</sup>

### Level 1 above 1 below 1

Screw thread	M4
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	1.5 ... 1.8 Nm
Stripping length	10 mm
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section solid	0.2 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Cross section AWG	24 ... 8
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	24 ... 10
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.25 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Connection in acc. with standard	IEC/EN 60079-7
Test certificate name	KEMA 96ATEX4370 U
Conductor cross section solid	0.2 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Cross section AWG	24 ... 8
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>

### Dimensions

Width	8.2 mm
End cover width	1.8 mm
Height NS 35/15	54.5 mm
Height NS 35/7,5	47 mm
Height	1.85 "

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Height NS 32	52 mm
Length	42.5 mm

## Material specifications

Color	green-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))	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	1.5 Nm ... 1.8 Nm (PE foot with mounting screw, M4)
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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 ... 105 °C (max. short-term operating temperature 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
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-2
	IEC/EN 60079-7

## Mounting

Mounting type	NS 35/7,5
	NS 35/15

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	NS 32
Terminal block mounting	1.5 Nm ... 1.8 Nm (PE foot with mounting screw, M4)

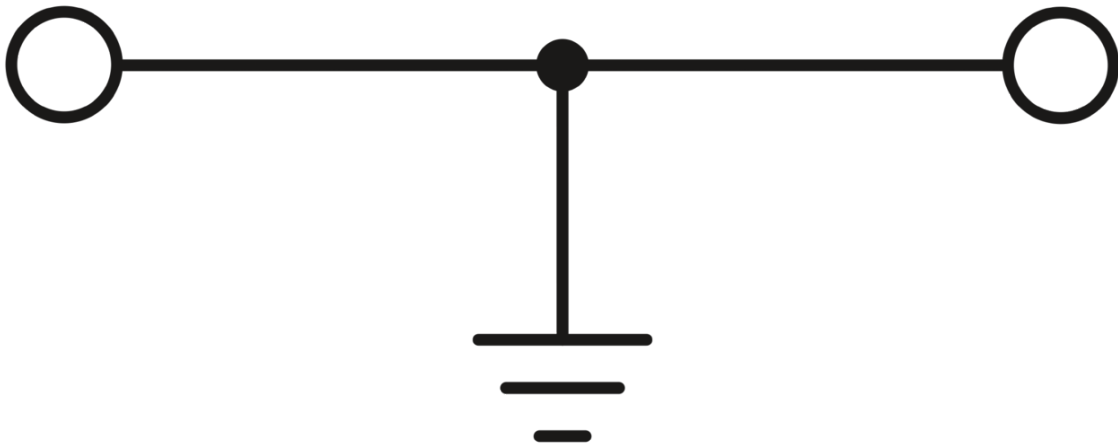
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## Drawings

Circuit diagram



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## Approvals

EAC	EN
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cULus Recognized 	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
Use group B			16 - 8	-
Use group C			16 - 8	-
Use group D			16 - 8	-

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## Classifications

### ECLASS

ECLASS-9.0	27141141
ECLASS-10.0.1	27141141
ECLASS-11.0	27141141

### ETIM

ETIM 8.0	EC000901
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### UNSPSC

UNSPSC 21.0	39121410
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## Environmental Product Compliance

REACH SVHC	4-Nonylphenol, branched and linear
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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## Accessories

### Screwdriver

Screwdriver - SZS 1,0X4,0 VDE - 1205066



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

### End clamp

End clamp - E/TB - 3246966



End clamp, for assembly on NS 32 or NS 35/7.5 DIN rail

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DIN rail, unperforated

DIN rail, unperforated - NS 32 UNPERF 2000MM-VPE 10 - 1201015



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver, Pack of 10 (20 m)

DIN rail perforated

DIN rail perforated - NS 32 PERF 2000MM-VPE 10 - 1201002



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver, Pack of 10 (20 m)

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PHOENIX CONTACT (Pty) Ltd.  
36 Lyn Road P.O. Box 916 ZA-Ferndale 2160

+27/11/801-8200  
[info@phoenixcontact.co.za](mailto:info@phoenixcontact.co.za)