

# TB 10-PE I - Ground terminal

3059883

<https://www.phoenixcontact.com/sg/products/3059883>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Ground terminal, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 10 mm<sup>2</sup>, cross section: 1.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting method: PE foot with mounting screw, M4, mounting type: NS 35/7,5, NS 35/15, NS 32, color: green-yellow

## Commercial data

Item number	3059883
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	*****
Product key	BEK221
GTIN	4046356643573
Weight per piece (including packing)	29.406 g
Weight per piece (excluding packing)	28.01 g
Customs tariff number	85369010
Country of origin	CN

# TB 10-PE I - Ground terminal



3059883

<https://www.phoenixcontact.com/sg/products/3059883>

## Technical data

### Notes

#### General

Note	For a reliable contact of multi stranded conductors it is recommended to untwist multi stranded conductors.
------	---

### Product properties

Product type	Ground terminal block
Number of positions	1
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	1.82 W

### Connection data

Number of connections per level	2
Nominal cross section	10 mm <sup>2</sup>
Rated cross section AWG	6
Screw thread	M4
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	1.2 ... 1.5 Nm
Stripping length	10 mm
Internal cylindrical gage	A6 B6
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section rigid	1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Cross section AWG	14 ... 6 (converted acc. to IEC)
Conductor cross section flexible	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	14 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Nominal cross section	10 mm <sup>2</sup>

### Dimensions

Width	10.2 mm
End cover width	1.8 mm
Height	42.5 mm

# TB 10-PE I - Ground terminal



3059883

<https://www.phoenixcontact.com/sg/products/3059883>

Depth on NS 32	52 mm
Depth on NS 35/7,5	47 mm
Depth on NS 35/15	54.5 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
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
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	1.2 Nm ... 1.5 Nm (PE foot with mounting screw, M4)
-------------------------	---

### Mechanical data

Open side panel	No
-----------------	----

## Environmental and real-life conditions

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

### Shocks

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

# TB 10-PE I - Ground terminal



3059883

<https://www.phoenixcontact.com/sg/products/3059883>

Result	Test passed
<b>Ambient conditions</b>	
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
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

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

## Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 32
Terminal block mounting	1.2 Nm ... 1.5 Nm (PE foot with mounting screw, M4)

# TB 10-PE I - Ground terminal

3059883

<https://www.phoenixcontact.com/sg/products/3059883>



## Drawings

Circuit diagram



# TB 10-PE I - Ground terminal



3059883

<https://www.phoenixcontact.com/sg/products/3059883>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/3059883>



**EAC**

Approval ID: RU C-DE.A\*30.B.01742



**cULus Recognized**

Approval ID: E60425

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	-	-	16 - 6	-
Use group C	-	-	16 - 6	-
Use group D	-	-	16 - 6	-

# TB 10-PE I - Ground terminal



3059883

<https://www.phoenixcontact.com/sg/products/3059883>

## Classifications

### ECLASS

ECLASS-11.0	27141141
ECLASS-13.0	27250103

### ETIM

ETIM 9.0	EC000901
----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# TB 10-PE I - Ground terminal



3059883

<https://www.phoenixcontact.com/sg/products/3059883>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### China RoHS

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

### EU REACH SVHC

REACH candidate substance (CAS No.)	4-Nonylphenol, branched and linear(CAS: n/a)
-------------------------------------	--

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT SEA Pte. Ltd.  
105 Eunos Avenue 3, #04-00  
Singapore 409836  
+65 6228 4900  
[marketing@phoenixcontact.com.sg](mailto:marketing@phoenixcontact.com.sg)