MT 1,5-PE - Protective conductor terminal block

3100318

https://www.phoenixcontact.com/us/products/3100318

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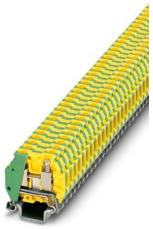

Protective conductor terminal block, When aligning with a feed-through terminal block of the same shape, an end cover must be interposed for insulation voltages of > 320 V, number of connections: 2, connection method: Screw connection, cross section: 0.14 mm^2 - 1.5 mm^2, mounting type: NS 15, color: green-yellow

Your advantages

- Low contact resistance
- Corrosion-free terminal points
- Green-yellow housing
- Captive terminal block screws

Commercial data

Item number	3100318
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1261
GTIN	4017918099268
Weight per piece (including packing)	2.82 g
Weight per piece (excluding packing)	2.693 g
Customs tariff number	85369010
Country of origin	TR

Technical data

Notes

General	When aligning with a feed-through terminal block of the same shape, an end cover must be interposed for insulation voltages of > 320 V

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	4 kV
Maximum power dissipation for nominal condition	0.56 W

Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	1.5 mm²
Connection method	Screw connection
Screw thread	M2
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	0.22 ... 0.25 Nm
Stripping length	6 mm
Internal cylindrical gage	A1
Connection in acc. with standard	IEC 60947-7-2
Conductor cross-section rigid	0.14 mm² ... 1.5 mm²
Cross section AWG	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm² ... 1.5 mm²
Conductor cross-section, flexible [AWG]	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 0.75 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 0.75 mm²

Dimensions

Width	4.2 mm
Height	22 mm
Depth on NS 15	23.5 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

Mechanical data

Open side panel	No

Environmental and real-life conditions

Oscillation/broadband noise

Specification	EN 50155:2021-07
Spectrum	Long life test category 2, bogie-mounted
Frequency	f_1 = 5 Hz to f_2 = 250 Hz
ASD level	6.12 $(m/s^2)^2/Hz$
Acceleration	30.6 m/s^2
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Pulse shape	Half-sine
Acceleration	300 m/s^2
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

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
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 15

Drawings

Circuit diagram

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3100318

CSA
Approval ID: 13631

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	-	-	28 - 14	-

cULus Recognized
Approval ID: E60425

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	-	-	30 - 14	-
F				
	-	-	30 - 14	-
D				
	-	-	30 - 14	-

CCA
Approval ID: NTR-NL 4243

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	-	-	-	- 1.5

EAC
Approval ID: KZ7500651131219505

DNV
Approval ID: TAE00001CT

Classifications

ECLASS

ECLASS-13.0	27250103
ECLASS-15.0	27250103

ETIM

ETIM 10.0	EC000901

UNSPSC

UNSPSC 21.0	39121400

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.)	No substance above 0.1 wt%

EF3.1 Climate Change

CO2e kg	0.013 kg CO2e

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