

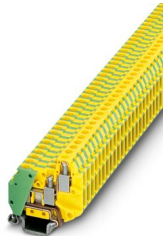
# MT 1,5-TWIN-PE - Protective conductor terminal block



3001705

<https://www.phoenixcontact.com/us/products/3001705>

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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: 3, connection method: Screw connection, Rated cross section:  $1.5 \text{ mm}^2$ , cross section:  $0.14 \text{ mm}^2 - 1.5 \text{ mm}^2$ , 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	3001705
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1261
GTIN	4017918107215
Weight per piece (including packing)	4.004 g
Weight per piece (excluding packing)	3.9 g
Customs tariff number	85369010
Country of origin	TR

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## Technical data

### Product properties

Product type	Ground terminal block
Number of connections	3
Number of rows	2

### 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	3
Nominal cross section	1.5 mm <sup>2</sup>
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 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cross section AWG	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
Nominal cross section	1.5 mm <sup>2</sup>

### Dimensions

Width	4.2 mm
Height	28 mm
Depth on NS 15	30 mm

### Material specifications

Color	green-yellow
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

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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
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## Environmental and real-life conditions

### Oscillation/broadband noise

Specification	EN 50155:2021-07
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
Acceleration	30.6 m/s <sup>2</sup>
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 <sup>2</sup>
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
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## Mounting

Mounting type	NS 15
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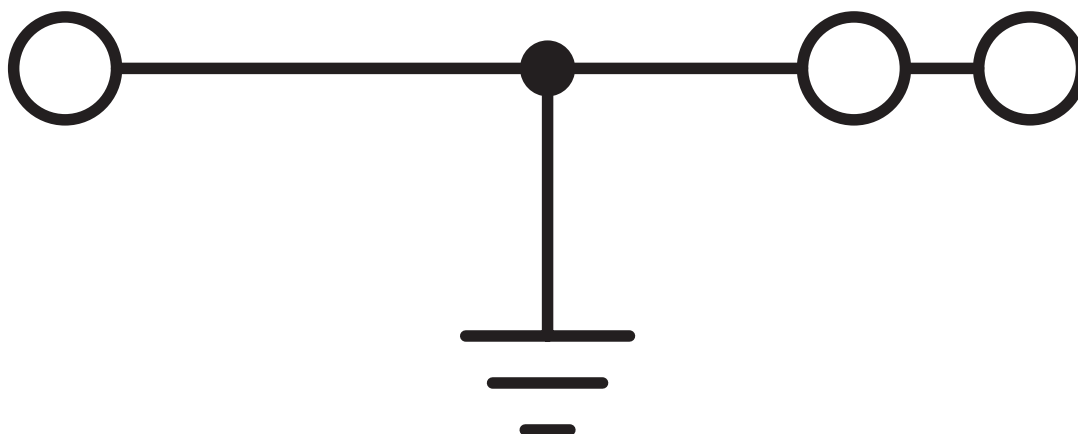


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3001705>

 <b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	-	-	28 - 14	-

 <b>EAC</b> Approval ID: KZ7500651131219505				
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 <b>cULus Recognized</b> 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	-

<b>CCA</b> Approval ID: NTR-NL 4241				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	-	-	-	- 1.5

<b>DNV</b> Approval ID: TAE00001CT				
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## Classifications

### ECLASS

ECLASS-13.0	27250103
ECLASS-15.0	27250103

### ETIM

ETIM 10.0	EC000901
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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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### EF3.1 Climate Change

CO2e kg	0.014 kg CO2e
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