

# TRK 2,5 GY - Transformer terminal block



2701019

<https://www.phoenixcontact.com/us/products/2701019>

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Transformer terminal block, connection method: Screw connection, length: 28.5 mm, width: 20 mm, height: 19 mm, color: gray

## Commercial data

Item number	2701019
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA18
Product key	AARAAC
GTIN	4017918060411
Weight per piece (including packing)	8.479 g
Weight per piece (excluding packing)	8.479 g
Customs tariff number	85369010
Country of origin	GR

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## Technical data

### Notes

General	For transformers on ships, saltwater-proof DIN rails must be used according to the regulations of Germanic Lloyd. This requirement is fulfilled by all rail designs.
General	When selecting the type of connection on safety transformers in acc. with IEC 742/EN 60742/DIN VDE 0551-1, please observe: - When safety transformers are used as self-contained devices, only screw connections are permitted for the external connections. - When installing safety transformers, the specifications of the respective devices must be observed.

### Product properties

Product type	Distributor terminal block
Number of positions	2
Number of connections	4
Number of rows	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Maximum load current	24 A (with 2,5 mm <sup>2</sup> cross section)
Rated insulation voltage	800 V
Rated surge voltage	8 kV

### Connection data

Maximum load current	24 A (with 2,5 mm <sup>2</sup> cross section)
Screw thread	M3,5
Tightening torque	1 ... 1.2 Nm
Stripping length	11 mm
	11 mm
Internal cylindrical gage	A2
Connection in acc. with standard	IEC / EN
Conductor cross section rigid	0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross section AWG	18 ... 14 (converted acc. to IEC)
Conductor cross section flexible	1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with same cross section, solid	0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with same cross section, flexible	1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN	0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>

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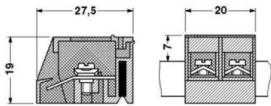


2701019

<https://www.phoenixcontact.com/us/products/2701019>

ferrule with plastic sleeve	
Nominal current	24 A
Maximum load current	24 A (with a 2.5 mm <sup>2</sup> conductor cross section)
Nominal voltage	voltage data only possible in conjunction with transformer

## Dimensions

Dimensional drawing	
Width	20 mm
Height	19 mm
Length	28.5 mm

## Material specifications

Color	gray
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	115 °C
Relative insulation material temperature index (Elec., UL 746 B)	125 °C

## Electrical tests

### Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 2.5 mm <sup>2</sup>	0.3 kA
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

## Mechanical tests

### Mechanical strength

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2701019

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Result	Test passed
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## Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.75 mm <sup>2</sup> / 0.4 kg
	1 mm <sup>2</sup> / 0.4 kg
	2.5 mm <sup>2</sup> / 0.7 kg
Result	Test passed

## Environmental and real-life conditions

### Needle-flame test

Time of exposure	30 s
Result	Test passed

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	0.02g <sup>2</sup> /Hz
Acceleration	0.8g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

### Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
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.)
Result	Test passed

## Standards and regulations

Connection in acc. with standard	IEC / EN
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## Mounting

Mounting type	DIN rail
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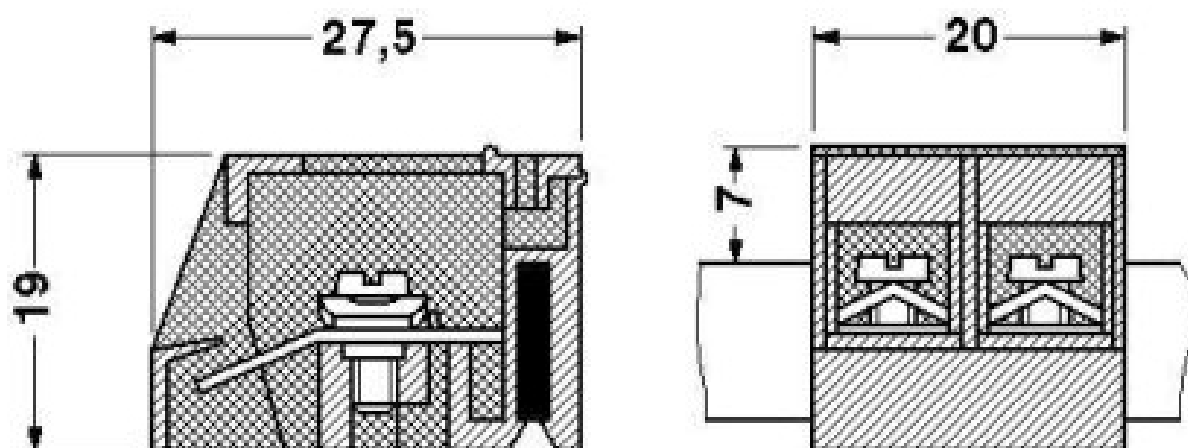
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## Drawings

### Dimensional drawing



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## Approvals

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CSA Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	300 V	15 A	18 - 14	-
Use group C				
Use group D	600 V	5 A	18 - 14	-

cUL Recognized Approval ID: FILE E 60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	600 V	20 A	22 - 12	-
Use group C				
	600 V	20 A	22 - 12	-

UL Recognized Approval ID: FILE E 60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	600 V	20 A	22 - 12	-
Use group C				
	600 V	20 A	22 - 12	-

cULus Recognized

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## Classifications

### ECLASS

ECLASS-11.0	27141110
ECLASS-13.0	27141110
ECLASS-12.0	27141110

### UNSPSC

UNSPSC 21.0	39121410
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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