

# Transformer terminal block - TRK 2,5 GY - 2701019

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Transformer terminal block, Connection method: Screw connection, Length: 28.5 mm, Width: 20 mm, Height: 19 mm, Color: gray, Mounting type: DIN rail, Coil snap-in device



## Key commercial data

Packing unit	1
Minimum order quantity	50
GTIN	 4 017918 060411
Custom tariff number	85369010
Country of origin	GREECE

## Technical data

### General

Note	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.
Note	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.
Number of connections	4
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V2

### Dimensions

Width	20 mm
Length	28.5 mm
Height	19 mm

### Technical data

Rated surge voltage	8 kV
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## Technical data

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Rated insulation voltage	800 V
Pollution degree	3
Surge voltage category	III
Connection in acc. with standard	IEC / EN
Nominal current I <sub>N</sub>	24 A
Nominal voltage U <sub>N</sub>	(voltage data only possible in conjunction with transformer)
Number of positions	2
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.75 mm <sup>2</sup> / 0.4 kg
Bending test conductor cross section/weight	1 mm <sup>2</sup> / 0.4 kg
Bending test conductor cross section/weight	2.5 mm <sup>2</sup> / 0.7 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.75 mm <sup>2</sup>
Tractive force setpoint	30 N
Conductor cross section tensile test	1 mm <sup>2</sup>
Tractive force setpoint	35 N
Conductor cross section tensile test	2.5 mm <sup>2</sup>
Tractive force setpoint	50 N
Tensile test result	Test passed
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	2.5 mm <sup>2</sup>
Short-time current	0.3 kA
Short circuit stability result	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 1, class B, on vehicle body
Test frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
ASD level	0.02 g <sup>2</sup> /Hz
Acceleration	0.8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis

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#### Technical data

Oscillation, broadband noise test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	5 g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	115 °C

#### Connection data

Conductor cross section solid min.	0.75 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	1 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	18
Conductor cross section AWG/kcmil max	14
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.75 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.75 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, solid min.	0.75 mm <sup>2</sup>
2 conductors with same cross section, solid max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	1 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.75 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1 mm <sup>2</sup>
Connection method	Screw connection
Stripping length	11 mm
Internal cylindrical gage	A 2
Screw thread	M3,5
Tightening torque, min	1 Nm
Tightening torque max	1.2 Nm

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## Classifications

### eclass

eCl@ss 4.0	27141110
eCl@ss 4.1	27141110
eCl@ss 5.0	27141134
eCl@ss 5.1	27141134
eCl@ss 6.0	27141134
eCl@ss 7.0	27141134

### etim

ETIM 2.0	EC001283
ETIM 3.0	EC001283
ETIM 4.0	EC001283
ETIM 5.0	EC002638

### unspsc

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

## Approvals

### Approvals

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#### Approvals

CSA / UL Recognized / cUL Recognized / GOST / LR / GL / BV / DNV / RS / GOST / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

			
	B	C	D
mm <sup>2</sup> /AWG/kcmil	18-14	18-14	18-14
Nominal current I <sub>N</sub>	15 A	15 A	5 A
Nominal voltage U <sub>N</sub>	300 V	300 V	600 V

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## Approvals

UL Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	22-12	22-12
Nominal current IN	20 A	20 A
Nominal voltage UN	600 V	600 V

cUL Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	22-12	22-12
Nominal current IN	20 A	20 A
Nominal voltage UN	600 V	600 V

GOST

LR

GL

BV

DNV

RS

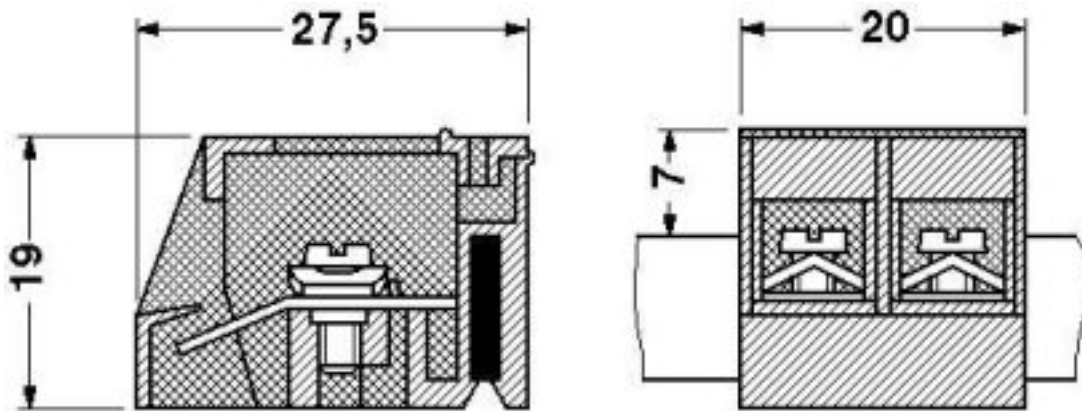
GOST

cULus Recognized

## Drawings

## Transformer terminal block - TRK 2,5 GY - 2701019

Dimensioned drawing



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