

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 pc
Minimum order quantity	50 pc
GTIN	 4 017918 060411
Weight per Piece (excluding packing)	8.548 g
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.
	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
Flammability rating according to UL 94	V2
Rated surge voltage	8 kV
Rated insulation voltage	800 V

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Technical data

General

Degree of pollution	3
Overvoltage category	III
Connection in acc. with standard	IEC / EN
Nominal current I_N	24 A
Nominal voltage U_N	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
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of bending test	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.75 mm ² / 0.4 kg
	1 mm ² / 0.4 kg
	2.5 mm ² / 0.7 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.75 mm ²
Tractive force setpoint	30 N
Conductor cross section tensile test	1 mm ²
Tractive force setpoint	35 N
Conductor cross section tensile test	2.5 mm ²
Tractive force setpoint	50 N
Result of voltage-drop test	Test passed
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	2.5 mm ²
Short-time current	0.3 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Oscillation, broadband noise test result	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03

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Test spectrum	Service life test category 1, class B, body mounted
Test frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	0.02 g ² /Hz
Acceleration	0,8 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shock 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.)
Relative insulation material temperature index (Elec., UL 746 B)	125 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	115 °C

Dimensions

Width	20 mm
Length	28.5 mm
Height	19 mm

Connection data

Conductor cross section solid min.	0.75 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	1 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	18
Conductor cross section AWG max.	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.75 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.75 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm ²
2 conductors with same cross section, solid min.	0.75 mm ²
2 conductors with same cross section, solid max.	2.5 mm ²
2 conductors with same cross section, stranded min.	1 mm ²
2 conductors with same cross section, stranded max.	2.5 mm ²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.75 mm ²

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Connection data

2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	2.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm ²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1 mm ²
Connection method	Screw connection
Stripping length	11 mm
Internal cylindrical gage	A2
Screw thread	M3,5
Tightening torque, min	1 Nm
Tightening torque max	1.2 Nm

Standards and Regulations

Connection in acc. with standard	CSA
	IEC / EN
Flammability rating according to UL 94	V2

Classifications

eCl@ss

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
eCl@ss 8.0	27141110

ETIM

ETIM 2.0	EC001283
ETIM 3.0	EC001283
ETIM 4.0	EC001283
ETIM 5.0	EC000398

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410

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Classifications

UNSPSC

UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / LR / GL / RS / EAC / null / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

CSA			
	B	C	D
mm ² /AWG/kcmil	18-14	18-14	18-14
Nominal current I _N	15 A	15 A	5 A
Nominal voltage U _N	300 V	300 V	600 V

UL Recognized		
	B	C
mm ² /AWG/kcmil	22-12	22-12
Nominal current I _N	20 A	20 A
Nominal voltage U _N	600 V	600 V

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Approvals

cUL Recognized		
	B	C
mm ² /AWG/kcmil	22-12	22-12
Nominal current I _N	20 A	20 A
Nominal voltage U _N	600 V	600 V

LR

GL

RS

EAC

mm ² /AWG/kcmil	2.5
Nominal voltage U _N	750 V

cULus Recognized

Drawings

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Dimensional drawing

