INDUSTRIAL COMPONENT DATA

# TTC-6-TVSD-C-12DC-UT-I 2906829 PHOENIX CONTACT Fine surge protection with integrated status indicator for a ..

**Brand: PHOENIX CONTACT | Manufacturer Part Number: TTC-6-TVSD-C-12DC-UT-I**



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|---|---|
| Manufacturer | PHOENIX CONTACT |
| MPN / Reference | TTC-6-TVSD-C-12DC-UT-I |
| Catalog number | 2906829 |
| Category | Surge protection device for data networks/MCR-technology |
| Minimum order | 1 Pcs |
| Document ID | EO-7435568A8A |
| Generated | 2026-11-19 |

## Product Overview

Fine surge protection with integrated status indicator for a signal wire with grounded reference potential.
Fine surge protection with integrated status indication for a grounded signal conductor with reference potential.
Fine surge protection with integrated status indicator for one signal wire with grounded reference potential. Can be used in safety-related circuits up to SIL 3.

STRUCTURED PRODUCT DATA

## Technical Specifications

No structured technical attributes are currently available. Submit an RFQ for technical review.

## Classification & Catalog Path

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|---|---|
| Catalog path | PHOENIX CONTACT > Trabtech (TT) |

## Additional Product Information

Technical dataProduct propertiesProduct type Surge protection for MCR technology
Product family TERMITRAB complete
IEC test classification C1
C3
Type DIN rail module, one-piece
Surge protection fault message optical
Data management status
Article revision 08
Insulation characteristics
Overvoltage category III
Pollution degree 2
Electrical propertiesNominal voltage UN 12 V DC

Connection dataConnection method Screw connection
Screw thread M3
Tightening torque 0.5 Nm ... 0.6 Nm
Conductor cross section flexible 0.2 mm² ... 2.5 mm²
Conductor cross section rigid 0.2 mm² ... 4 mm²
Conductor cross section AWG 24 ... 12
DimensionsDimensional drawing
Width 6.2 mm
Height 92 mm
Depth 69.5 mm (incl. DIN rail 7.5 mm)
Material specificationsColor gray (RAL 7042)
Flammability rating according to UL 94 V-0
Insulating material PBT
Housing material PBT
Mechanical propertiesMechanical data
Open side panel Yes
Protective circuitDirection of action Line-Earth Ground
Maximum continuous voltage UC 15 V DC
10 V AC
Rated current 10 A (60 °C)
Operating effective current ICat UC <= 5 µA
Residual current IPE <= 5 µA
Nominal discharge current In(8/20) µs (line-ground) 300 A
Voltage protection level Up(line-earth) <= 25 V (C1 - 0,6 kV / 300 A)
<= 22 V (C3 - 25 A)
<= 25 V (C3 - 60 A)
Response time tA(line-earth) <= 1 ns
Input attenuation aE, asym. typ. 0.3 dB (<= 340 kHz/150 ?)
Cut-off frequency fg (3 dB), asym. (PE) in 150 ? system typ. 1.1 MHz
Capacity (Core-Earth) 2 nF
Resistance per path <= 100 m?
Surge protec...

## REQUEST PRICE, AVAILABILITY & TECHNICAL REVIEW

Send PHOENIX CONTACT / TTC-6-TVSD-C-12DC-UT-I with the required quantity to info@electricaonline.com or use electricaonline.com/request-quote.

**GLOBAL OFFICES**

Germany: Lise-Meitner-Straße 13, 89081 Ulm | USA: 16225 Park Ten Pl #500, Houston, TX 77084 | UAE: HDS Business Centre Tower, Cluster M, 33rd Floor, JLT, Dubai

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