TTC-6P-T3-24DC-UT-I - Type 3 surge protection device

1027584

https://www.phoenixcontact.com/us/products/1027584

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Type 3 surge protection, consisting of protective plug and base element, with integrated status indicator for 24 V DC power supplies

Your advantages

- Space-saving and cost-saving with a narrow overall width of just 6 mm
- Continuous monitoring of protective devices, plus mechanical status indicator with optional remote signaling
- Finding the right product for all possible requirements in MCR applications is easy, thanks to the complete range of products with customized features
- Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	1027584
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL14D1
GTIN	4055626522227
Weight per piece (including packing)	54.1 g
Weight per piece (excluding packing)	37.4 g
Customs tariff number	85363030
Country of origin	DE

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Technical data

Notes

General

Note	CBM:
	2905743 CBM E4 24DC/0.5-10A NO-R
	2905744 CBM E8 24DC/0.5-10A NO-R
	CBMC:
	2906032 CBMC E4 24DC/1-10A NO
	2908716 CBMC E4 24DC/1-10A NO-C
	2910411 CBMC E4 24DC/1-10A IOL
	PTCB:
	2908262 PTCB E1 24DC/1-8A NO
	CB E1:
	2800907 CB E1 24DC/10A NO P
	2800914 CB E1 24DC/10A S-R P
	2800928 CB E1 24DC/10A S-C P
	2905805 CB E1 24DC/10A SI-R P
	2905812 CB E1 24DC/10A SI-C P

Product properties

Product type	Device protection
Product family	TERMITRAB complete
IEC power supply system	DC
Type	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	optical

Insulation characteristics

Overvoltage category	III
Pollution degree	2
IEC test classification	III
	T3
EN type	T3
Number of ports	One

Connection data

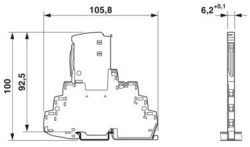
Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Conductor cross-section AWG	24 ... 12

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Dimensions

Dimensional drawing	
Width	6.2 mm +0.1 mm
Height	105.8 mm
Depth	100 mm (incl. DIN rail 7.5 mm)

Material specifications

Color (Base element)	gray (RAL 7042)
Color (Male connector)	light gray (RAL 7035)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PBT
Housing material	PBT

Protective circuit

Power supplies

Direction of action	1L-N & N-PE
Nominal voltage U_N	24 V DC
Maximum continuous operating voltage U_C	30 V DC
Rated load current I_L	6 A (30 °C)
Protective conductor current I_{PE}	≤ 5 µA
Nominal discharge current I_n (8/20) µs	1 kA
Combination wave U_{OC}	2 kV (2 Ω)
	2 kV (2 Ω)
Voltage protection level U_p (DC+) - (DC-)	≤ 0.09 kV (U_{oc}= 2 kV)
	≤ 0.2 kV (U_{oc}= 6 kV)
Voltage protection level U_p (DC+/DC-) - PE	≤ 0.7 kV
Response time tA (DC+) - (DC-)	≤ 1 ns
Response time tA (DC+/DC-) - PE	≤ 100 ns
Short-circuit current rating I_{SCCR}	60 A DC (without additional backup fuse)
	220 A DC
Max. backup fuse with branch wiring	6 A (gG)
	10 A (see the note: CBM, CBMC, PTCB, CB E1)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C

Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 6000 m (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 Hz ... 150 Hz / 20 cycles/axis / X, Y, Z)

Approvals

Conformity/Approvals

UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D T4A

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

EN 61643-11

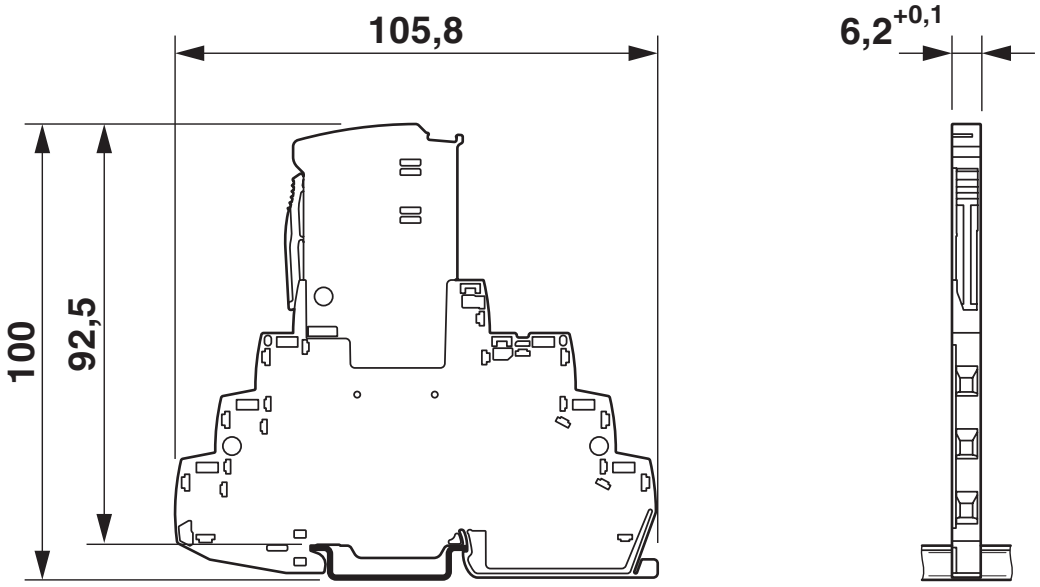
Standards/specifications	EN 61643-11
Note	2012

Mounting

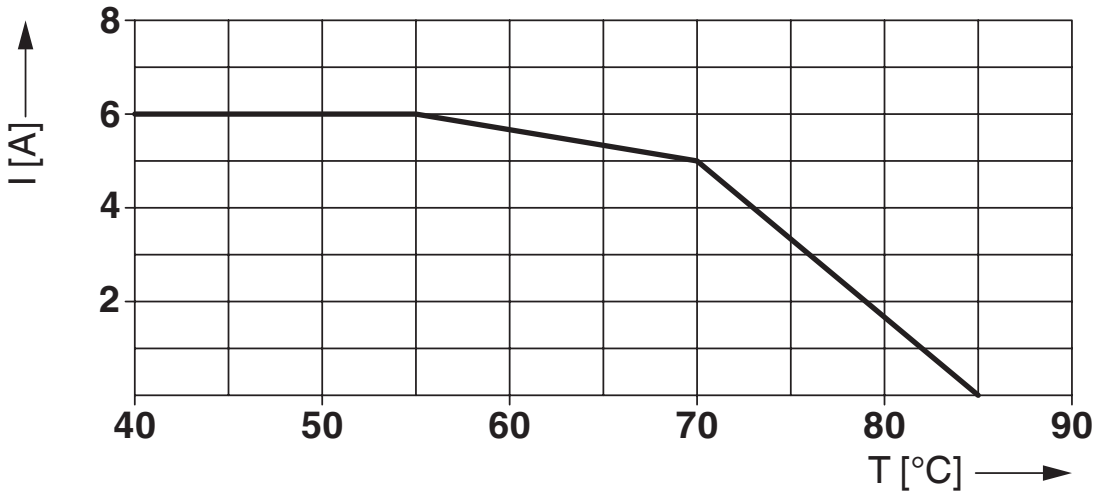
Mounting type	DIN rail: TH 35 - 7.5 mm

Drawings

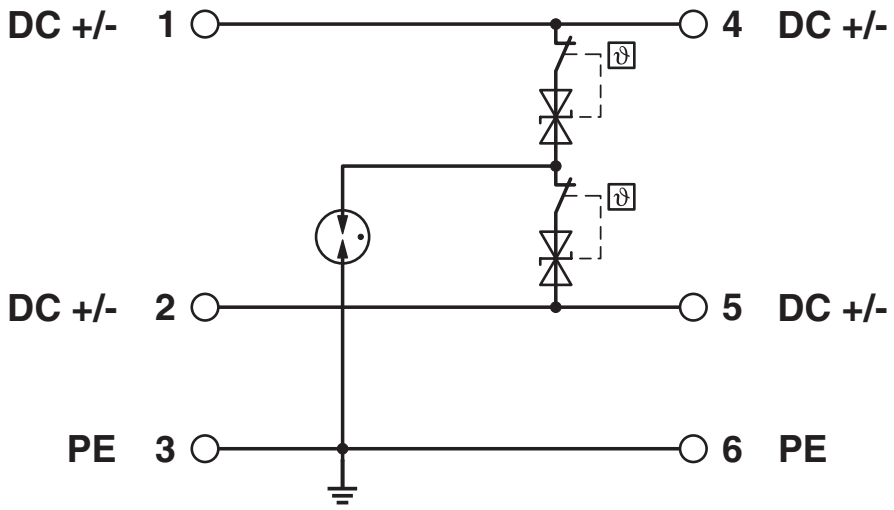
Dimensional drawing



Diagram



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1027584

UL Listed
Approval ID: FILE E 138168

DNV GL
Approval ID: TAE000027G

UAE-RoHS
Approval ID: 22-06-16783

UL Listed
Approval ID: FILE E 138168

cUL Listed
Approval ID: FILE E 333250

UL Listed
Approval ID: FILE E 333250

cULus Listed
Approval ID: File E 333250

Classifications

ECLASS

ECLASS-13.0	27171203
ECLASS-15.0	27171203

ETIM

ETIM 10.0	EC000942

UNSPSC

UNSPSC 21.0	39121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	35251285-13e4-4214-8163-abdf410fee01

EF3.1 Climate Change

CO2e kg	1.057 kg CO2e

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