

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



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 522227
GTIN	4055626522227
Weight per Piece (excluding packing)	0.040 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions

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

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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 (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 ... 150 Hz/20 cycles/axis/X, Y, Z)

General

EN type	T3
IEC power supply system	DC
Number of ports	One
Mode of protection	(DC+) - (DC-)
	(DC+/DC-) - PE
Mounting type	DIN rail: TH 35 - 7.5 mm
Color	traffic grey A RAL 7042
	light grey RAL 7035
Housing material	PBT
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	optical

Additional descriptions

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

Protective circuit

Nominal voltage U_N	24 V DC
Maximum continuous voltage U_C	30 V DC
Rated load current I_L	6 A (30 °C)

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Protective circuit

Residual current I_{PE}	$\leq 5 \mu A$
Nominal discharge current I_n (8/20) μs	1 kA
Combination wave U_{OC}	2 kV (2 Ω)
	6 kV (12 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
	≤ 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)
Maximum backup fuse for through wiring	6 A (gG)

Connection data

Connection method	Screw connection
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
Stripping length	8 mm

Standards and Regulations

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"