

Surge protection device - TT-STTB-PE-24 - 2858182

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Spring-cage terminal block with PE foot and suppressor diode as fine surge protection, nominal voltage: 24 V DC, for mounting on NS 35/7.5



The illustration shows version TT-STTB-PE 12



Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4017918877897
Weight per Piece (excluding packing)	22.650 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	83.5 mm
	83.5 mm
Width	6.2 mm
Depth	47.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP20

General

Housing material	PA 6.6
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Technical data

General

Flammability rating according to UL 94	V-0
Color	black
Standards for clearances and creepage distances	IEC 60664-1
	VDE 0110-1
Mounting type	DIN rail: 35 mm
Design	Double-level terminal block with PE foot
Direction of action	Line-Earth Ground

Protective circuit

IEC test classification	C3
VDE requirement class	C3
Nominal voltage U_N	24 V DC
Maximum continuous voltage U_C	40 V DC
	28 V AC
Rated current	32 A ($\leq 60^\circ\text{C}$)
Operating effective current I_C at U_C	$\leq 5 \mu\text{A}$
Residual current I_{PE}	$\leq 5 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (core-earth)	119 A
Total discharge current I_{total} (8/20) μs	119 A
Max. discharge current I_{max} (8/20) μs maximum (Core-Core)	119 A
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	119 A
Nominal pulse current I_{an} (10/1000) μs (Core-Core)	23 A
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	23 A
Output voltage limitation at 1 kV/ μs (core-earth) static	$\leq 60 \text{ V}$
Residual voltage at I_n (conductor-conductor)	$\leq 80 \text{ V}$
Residual voltage at I_n (conductor-ground)	$\leq 80 \text{ V}$
Residual voltage with I_{an} (10/1000) μs (conductor-conductor)	$\leq 65 \text{ V}$
Residual voltage with I_{an} (10/1000) μs (conductor-ground)	$\leq 65 \text{ V}$
Voltage protection level U_p (core-core)	55 V (C3 - 10 A)
Response time t_A (core-earth)	$\leq 1 \text{ ns}$
Input attenuation a_E , asym.	typ. 0.1 dB ($\leq 400 \text{ kHz} / 150 \Omega$)
Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system	typ. 2 MHz
Capacity (core-earth)	1.1 nF (with 1 MHz)
Surge protection fault message	None
Impulse durability (conductor-conductor)	C3 - 10 A
Impulse durability (conductor-ground)	C3 - 10 A

Connection data

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Connection data

Connection method	Spring-cage connection
Connection method IN	Spring-cage
Connection method OUT	Spring-cage
Conductor cross section flexible	0.5 mm ² ... 4 mm ²
Conductor cross section solid	0.5 mm ² ... 6 mm ²
Conductor cross section AWG	20 ... 10

Standards and Regulations

Standards/regulations	IEC 61643-21
Standards/specifications	IEC 61643-21 2000

Approvals


Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

EAC		RU C- DE.A*30.B01561
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EAC		EAC-Zulassung
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