

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 pc
Weight per Piece (excluding packing)	22.65 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	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
Flammability rating according to UL 94	V0
Color	black
Standards for clearances and creepage distances	IEC 60664-1
	VDE 0110-1
Mounting type	DIN rail: 35 mm
Type	Double-level terminal block with PE foot

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Technical data

General

Direction of action	Line-Earth Ground
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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
Maximum continuous voltage U_C (wire-ground)	40 V DC
	28 V AC
Nominal current I_N	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 surge current (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)
Impulse durability (conductor-conductor)	C3 - 10 A
Impulse durability (conductor-ground)	C3 - 10 A

Connection data

Connection method	Spring-cage connection
Connection type IN	Spring-cage
Connection type OUT	Spring-cage
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	4 mm ²

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Connection data

Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	10

Standards and Regulations

Standards/regulations	IEC 61643-21
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Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

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Approvals

Approvals

EAC / EAC

Ex Approvals

Approvals submitted

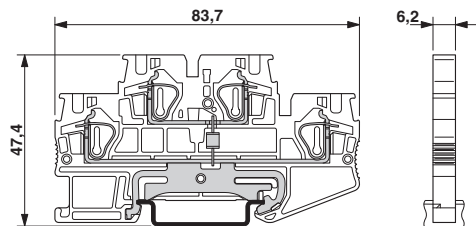
Approval details

EAC

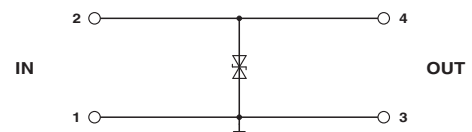
EAC

Drawings

Dimensional drawing



Circuit diagram



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Schematic diagram

