

Surge protection device - TT-ST-2/2-S-24DC - 2920735

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Spring cage modular terminal block with integrated surge protection, for assembly on NS 35/7.5, voltage U_N 24 V DC, terminal width: 6.2 mm, cover width: 2.2 mm

Key commercial data

Packing unit	10 pc
GTIN	 4 046356 168373
Weight per Piece (excluding packing)	25.56 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	100 mm
Width	6.2 mm
Depth	63.5 mm

Ambient conditions

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

General

Housing material	PA 6.6
Inflammability class according to UL 94	V2
Color	black
Standards for air and creepage distances	EN 60664-1
Mounting type	DIN rail: 35 mm
Type	Double-level terminal block
Number of positions	2
Direction of action	Line-Earth Ground

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Technical data

Protective circuit

IEC test classification	C1
	C3
VDE requirement class	C1
	C3
Nominal voltage U_N	24 V DC
Maximum continuous operating voltage U_C	30 V DC
	21 V AC
Maximum continuous voltage U_C (wire-ground)	30 V DC
	21 V AC
Nominal current I_N	10 A (50 °C)
Operating effective current I_C at U_C	$\leq 5 \mu A$ (DC)
	$\leq 20 \mu A$ (60 Hz)
Residual current I_{PE}	$\leq 10 \mu A$ (DC)
	$\leq 40 \mu A$ (60 Hz)
Nominal discharge current I_n (8/20) μs (Core-Earth)	310 A (per path)
Total surge current (8/20) μs	620 A
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	62 A (per path)
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 45 V$
Residual voltage at I_n , (conductor-ground)	$\leq 48 V$
Residual voltage with I_{an} (10/1000) μs (conductor-ground)	$\leq 48 V$
Voltage protection level U_P (Core-Earth)	$\leq 45 V$ (C1 - 250 A)
Response time t_A (Core-Earth)	$\leq 1 ns$
Input attenuation a_E , asym.	typ. 0.3 dB ($\leq 1 MHz / 50 \Omega$)
	typ. 0.1 dB ($\leq 150 kHz / 150 \Omega$)
Cut-off frequency f_g (3 dB), asym. (GND) in 50 Ohm system	typ. 3 MHz
Cut-off frequency f_g (3 dB), asym. (GND) in 150 Ohm system	typ. 500 kHz
Capacity (Core-Earth)	$\leq 2 nF$
Max. required back-up fuse	10 A (e.g. T (IEC 127-2/III))
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (500 A/250 A)
	C3 (25 A)
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Earth)	2 A (5x 1 s)

Connection data

Connection method	Spring-cage connection
Connection type IN	Spring-cage
Connection type OUT	Spring-cage
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	4 mm ²

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Connection data

Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

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

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

Approvals

GOST / GL / GOST / UL Listed

Ex Approvals

Approvals submitted