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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	1 pc
Weight per Piece (excluding packing)	28.0 GRM
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 µA (DC)
	$\leq$ 20 µA (60 Hz)
Residual current I_{PE}	$\leq$ 10 µA (DC)
	$\leq$ 40 µA (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 Ian (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 Ian (10/1000)µs (conductor-ground)	$\leq$ 48 V
Voltage protection level U_P (Core-Earth)	$\leq$ 45 V (C1 - 250 A)
Response time tA (Core-Earth)	$\leq$ 1 ns
Input attenuation aE, asym.	typ. 0.3 dB ($\leq$ 1 MHz / 50 Ω)
	typ. 0.1 dB ($\leq$ 150 kHz / 150 Ω)
Cut-off frequency fg (3 dB), asym. (GND) in 50 Ohm system	typ. 3 MHz
Cut-off frequency fg (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 current resistance (conductor-ground)	C1 (500 A/250 A)
	C3 (25 A)
Alternating current carrying capacity (conductor-ground)	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 mm²

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Connection data

Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.5 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Standards and Regulations

Standards/regulations	IEC 61643-21

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

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Approvals

Approvals

GOST / GL / GOST / UL Listed

Ex Approvals

Approvals submitted

Approval details

GOST

GL

GOST

UL Listed

Accessories

Accessories

End cover

End cover - TT-D-STTCO-BK - 2858894

End cover for TERMITRAB TT-ST-..., width: 2.2 mm, color: Black

Labeled terminal marker

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Accessories

Zack Marker strip, flat - ZBF 6,LGS:FORTL.ZAHLEN - 0808749

Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

Marker pen

Marker pen - B-STIFT - 1051993

Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Terminal marking

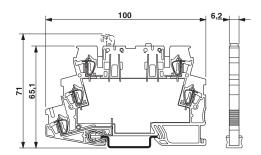Zack Marker strip, flat - ZBF 6:UNBEDRUCKT - 0808710

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

Zack Marker strip, flat - ZBF 6/WH-100:UNBEDRUCKT - 0808736

Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 6.2 mm, Lettering field: 5.15 x 6.15 mm

Drawings

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Dimensioned drawing