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Surge protection device - TT-ST-M-2/2-24AC - 2858933

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TERMITRAB, spring-cage modular terminal block with integrated surge protection and disconnect knives, for assembly on NS 35/7.5, voltage U_N 24 V DC, terminal width: 6.2 mm, cover width: 2.2 mm

Product Features

- Disconnection of signal circuits by disconnect knife
- Multi-stage modular terminal blocks with spring-cage connection

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	31.28 GRM
Custom tariff number	85363030
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

Surge protection device - TT-ST-M-2/2-24AC - 2858933

Technical data

General

Color	black
Standards for air and creepage distances	EN 60664-1
	IEC 60664-1
Surge voltage category	III
Pollution degree	2
Mounting type	DIN rail: 35 mm
Type	Double-level terminal block with disconnect knife
Number of positions	2
Direction of action	Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V AC
Maximum continuous operating voltage U_C	45 V DC
	31 V AC
Maximum continuous voltage U_C (wire-ground)	45 V DC
	31 V AC
Nominal current I_N	300 mA (45°C)
Operating effective current I_C at U_C	≤ 10 µA (per path)
Residual current I_{PE}	≤ 20 µA
Nominal discharge current I_n (8/20) µs (Core-Earth)	5 kA
Total surge current (8/20) µs	10 kA
Total surge current (10/350) µs	2 kA
Max. discharge current I_{max} (8/20) µs maximum (Core-Earth)	5 kA
Nominal pulse current Ian (10/1000) µs (Core-Earth)	100 A
	200 A (in total)
Impulse discharge current (10/350)#µs, peak value I_{imp}	1 kA (per path)
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 55 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 55 V
Residual voltage at I_n, (conductor-ground)	≤ 55 V

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Technical data

Protective circuit

Residual voltage with Ian (10/1000)µs (conductor-ground)	≤ 70 V
Voltage protection level U_P (Core-Earth)	≤ 80 V (C2 (10 kV/5 kA))
	≤ 40 V (static)
Response time tA (Core-Earth)	≤ 1 ns
Input attenuation aE, asym.	typ. 0.6 dB (500 kHz/50 Ω system)
	typ. 0.1 dB (180 kHz/150 Ω system)
	typ. 0.1 dB (45 kHz/600 Ω system)
Cut-off frequency fg (3 dB), asym. (PE) in 50 Ohm system	typ. 3.5 MHz
Cut-off frequency fg (3 dB), asym. (PE) in 150 Ohm system	typ. 1.1 MHz
Cut-off frequency fg (3 dB), asym. (PE) in 600 Ohm system	typ. 280 kHz
Capacity (Core-Earth)	2 nF
Resistance in series	9.4 Ω ±10 % (per path)
	9.4 Ω
Surge protection fault message	None
Max. required back-up fuse	315 mA
Surge current resistance (conductor-ground)	C2 - 10 kV/5 kA
	D1 - 1 kA
	C3 - 100 A

Connection data

Connection method	Spring-cage connection
Connection type IN	Spring-cage
Connection type OUT	Spring-cage
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

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

Surge protection device - TT-ST-M-2/2-24AC - 2858933

Classifications

eCl@ss

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 / GOST / UL Listed / GL

Ex Approvals

Approvals submitted

Approval details

GOST

GOST

Surge protection device - TT-ST-M-2/2-24AC - 2858933

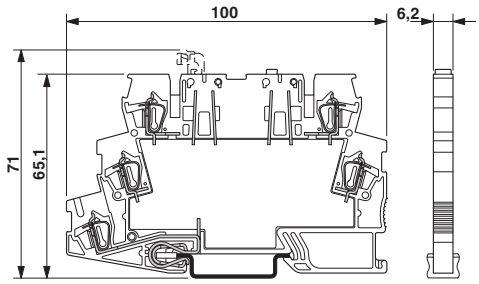
Approvals

UL Listed

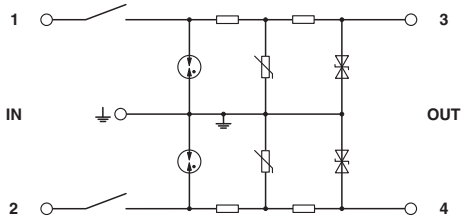
GL

Drawings

Dimensioned drawing



Circuit diagram



Catalog photo

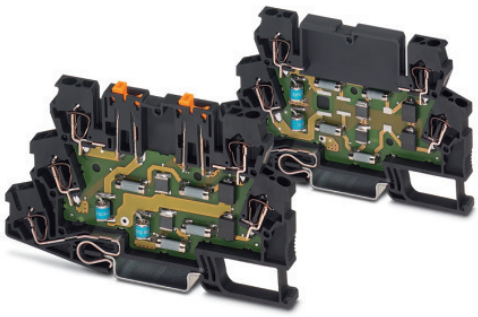


Figure may contain other products.