

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
GTIN	 4 046356 168373
GTIN	4046356168373
Weight per Piece (excluding packing)	26.000 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
Flammability rating according to UL 94	V-0
Color	black

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Technical data

General

Standards for clearances 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

Protective circuit

IEC test classification	C1
	C3
VDE requirement class	C1
	C3
Nominal voltage U_N	24 V DC
Maximum continuous voltage U_C	30 V DC
	21 V AC
Rated current	10 A (50 °C)
Operating effective current I_C at U_C	$\leq 5 \mu\text{A}$ (DC)
	$\leq 20 \mu\text{A}$ (60 Hz)
Residual current I_{PE}	$\leq 10 \mu\text{A}$ (DC)
	$\leq 40 \mu\text{A}$ (60 Hz)
Nominal discharge current I_n (8/20) μs (line-earth)	310 A (per path)
Total discharge current I_{total} (8/20) μs	620 A
Nominal pulse current I_{an} (10/1000) μs (line-earth)	62 A (per path)
Output voltage limitation at 1 kV/ μs (line-earth) spike	≤ 45 V
Output voltage limitation at 1 kV/ μs (line-earth) static	≤ 45 V
Residual voltage at I_n (line-earth)	≤ 48 V
Residual voltage with I_{an} (10/1000) μs (line-earth)	≤ 48 V
Voltage protection level U_p (line-earth)	≤ 45 V (C1 - 250 A)
Response time t_A (line-earth)	≤ 1 ns
Input attenuation aE , asym.	typ. 0.3 dB (≤ 1 MHz / 50 Ω)
	typ. 0.1 dB (≤ 150 kHz / 150 Ω)
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 (line-earth)	≤ 2 nF
Surge protection fault message	none
Max. required back-up fuse	10 A (T)
Impulse durability (line-earth)	C1 - 500 V / 250 A
	C3 - 25 A

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Technical data

Protective circuit

Alternating current carrying capacity (line-earth)	2 A - 5x 1 s
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Connection data

Connection method	Spring-cage connection
Connection method IN	Spring-cage
Connection method OUT	Spring-cage
Stripping length	8 mm
Conductor cross section flexible	0.5 mm ² ... 2.5 mm ²
Conductor cross section solid	0.5 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

Standards and Regulations

Standards/regulations	IEC 61643-21
	EN 61643-21
Standards/specifications	IEC 61643-21/A1 2008
	EN 61643-21/A1 2009

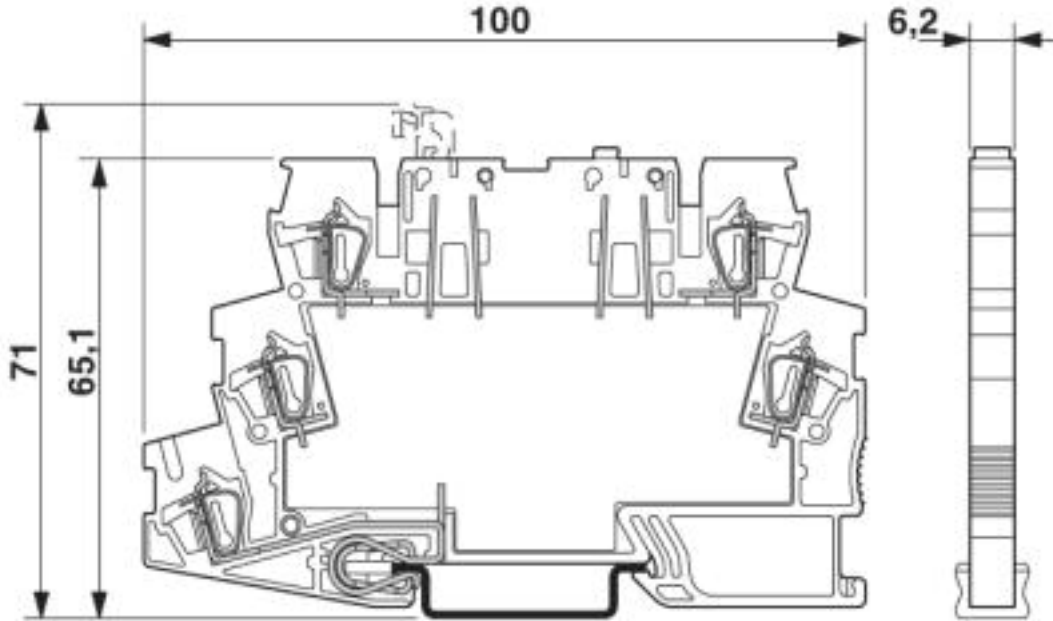
Environmental Product Compliance

	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

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Dimensional drawing



Classifications

eCl@ss

eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
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
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010
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Classifications

UNSPSC

UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

Approvals

DNV GL / UL Listed / EAC

Ex Approvals

Approval details

DNV GL		https://approvalfinder.dnvgl.com/	TAE00001N7
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UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168
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EAC			RU C- DE.A*30.B01561
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Accessories

Accessories

End cover

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Accessories

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



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

Labeled terminal marker

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 size: 5.15 x 6.15 mm, Number of individual labels: 10

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: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

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Accessories

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



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 6.2 mm, lettering field size: 5.15 x 6.15 mm, Number of individual labels: 10

Additional products

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



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

Shield connection - SSA 3-6 - 2839295



Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black

Shield connection - SSA 5-10 - 2839512



Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable: 200 mm, 1 mm², color: black