

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
GTIN	4046356168373

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
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

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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 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	$\leq 45 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 45 \text{ V}$
Residual voltage at I_n (line-earth)	$\leq 48 \text{ V}$
Residual voltage with I_{an} (10/1000) μs (line-earth)	$\leq 48 \text{ V}$
Voltage protection level U_p (line-earth)	$\leq 45 \text{ V}$ (C1 - 250 A)
Response time t_A (line-earth)	$\leq 1 \text{ ns}$
Input attenuation aE, asym.	typ. 0.3 dB ($\leq 1 \text{ MHz} / 50 \Omega$)
	typ. 0.1 dB ($\leq 150 \text{ kHz} / 150 \Omega$)
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 (line-earth)	$\leq 2 \text{ nF}$
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
Alternating current carrying capacity (line-earth)	2 A - 5x 1 s

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

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Technical data

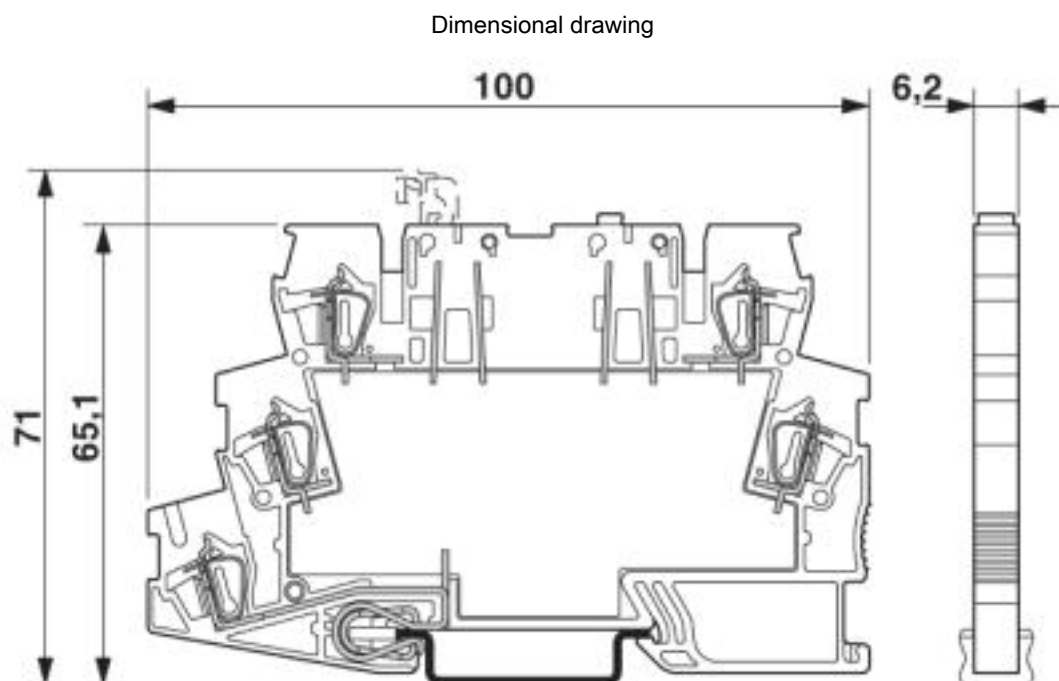
Standards and Regulations

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

Environmental Product Compliance

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

Drawings



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
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

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Classifications

eCl@ss

eCl@ss 9.0	27130807
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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
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	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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Approvals

EAC



RU C-
DE.A*30.B01561

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

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

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