

TT-ST-2/2-24DC

Order No.: 2858881



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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

Commercial data	
GTIN (EAN)	4017918939137
sales group	J301
Pack	10 pcs.
Customs tariff	85363030
Weight/Piece	0.028008 KG
Catalog page information	Page 103 (TT-2009)

Product notes

WEEE/RoHS-compliant since:
06/28/2006



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Technical data	
General	
Housing material	PA 6.6
Inflammability class acc. to UL 94	V2
Color	black

Standards for air and creepage distances	VDE 0110-1
	IEC 60664-1: 1992-10
Surge voltage category	III
Pollution degree	2
Total surge current (8/20) μ s	10 kA
Total surge current (10/350) μ s	2 kA
Ambient temperature (operation)	-40 °C ... 85 °C
Mounting type	DIN rail 35 mm
Design	Double-level terminal block
Number of positions	2
Degree of protection	IP20
Direction of action	Line-Earth Ground
Width	6.20 mm
Height	63.50 mm
Length	100.00 mm

Protective circuit

IEC category	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V DC
Max. operating voltage U_{max}	30 V DC
	21 V AC
Arrester rated voltage U_C	30 V DC
	21 V AC
Arrester rated voltage U_C (Core-Earth)	30 V DC
	21 V AC
Nominal current I_N	300 mA ($\leq 45^\circ\text{C}$)
Operating effective current I_C at U_C	$\leq 10 \mu\text{A}$ (per path)
Discharge current to PE at U_C	$\leq 20 \mu\text{A}$

Nominal discharge surge current I_n (8/20) μs (Core-Earth)	5 kA
Total surge current (8/20) μs	10 kA
Max. discharge surge current I_{max} (8/20) μs maximum (Core-Earth)	5 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	100 A
	200 A (in total)
Lightning test current (10/350) μs , peak value I_{imp}	1 kA (per path)
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	≤ 40 V
Output voltage limitation at 1 kV/ μs (Core-Earth) static	≤ 40 V
Residual voltage at I_n , (conductor-ground)	≤ 40 V
Residual voltage with I_{an} (10/1000) μs (conductor-ground)	≤ 45 V
Protection level U_p (Core-Earth)	≤ 80 V (C2 (10 kV/5 kA))
	≤ 40 V (static)
Response time t_A (Core-Earth)	≤ 1 ns
Input attenuation aE, asym.	0.6 dB (< 500 kHz)
	0.1 dB (up to 170 MHz, 150 Ω system)
	0.1 dB (up to 40 kHz, 600 Ω system)
Cut-off frequency f_g (3 dB), asym. (PE) in 50 Ohm system	Typ. 3 MHz
Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system	Typ. 1 MHz
Cut-off frequency f_g (3 dB), asym. (PE) in 600 Ohm system	Typ. 250 kHz
Capacity (Core-Earth)	2 nF
Resistance in series	9.4 $\Omega \pm 10$ % (per path)
	9.4 Ω
Max. required back-up fuse	315 mA
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (10 kV/5 kA)
	D1 (1 kA)

Connection data

Type of connection	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
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Connection, protective circuit

Standards/regulations	IEC 61643-21
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Certificates / Approvals



Certification GOST

Accessories

Item	Designation	Description
General		
2858894	TT-D-STTCO-BK	End cover for TERMITRAB TT-ST-..., width: 2.2 mm, color: Black

Marking

1051993	B-STIFT	Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm
0808749	ZBF 6,LGS:FORTL.ZAHLEN	Zack strip, flat, printed horizontally: 10-section, with the numbers, 1-10, 11-20 etc. up to 991-1000, color: White
0808736	ZBF 6/WH-100:UNBEDRUCKT	Zack strip, flat, unprinted: 10-section, for individual labeling with M-PEN or ZBF-T, large batch, sufficient for labeling 1000 terminal blocks, color: white
0808710	ZBF 6:UNBEDRUCKT	Zack strip, flat, unprinted: 10-section, for individual labeling with M-PEN or ZBF-T, sufficient for 100 terminal blocks, color: white

Additional products

Item	Designation	Description
Assembly		
2839295	SSA 3-6	shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black

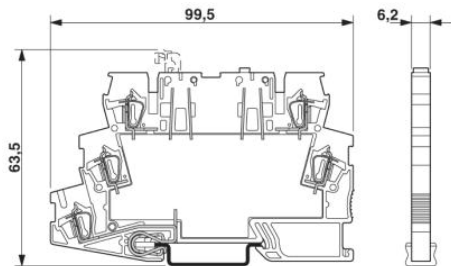
2839512	SSA 5-10	Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black
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General

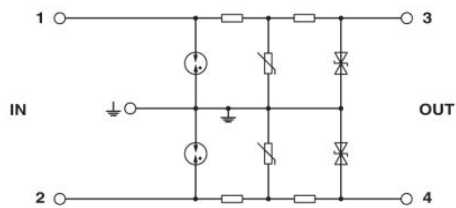
2858894	TT-D-STTCO-BK	End cover for TERMITRAB TT-ST-..., width: 2.2 mm, color: Black
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Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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