

TT-ST-M-2/2-24DC

Order No.: 2858917



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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



Commercial data

EAN	 4 017918 938017
sales group	J301
Pack	10 Pcs.
Customs tariff	85363030
Gross weight in pieces	0.03139 KG
Net weight per piece	0.02879 KG
Catalog page information	Page 97 (C-6-2013)

Product notes

WEEE/RoHS-compliant since:
06/01/2006



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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
	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 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	300 mA (45°C)
Operating effective current I_C at U_C	$\leq 10 \mu A$ (per path)
Residual current I_{PE}	$\leq 20 \mu A$
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) μ s	2 kA
Max. discharge current $I_{\max}$ (8/20) μ s maximum (Core-Earth)	5 kA
Nominal pulse current I_{an} (10/1000) μ s (Core-Earth)	100 A
	200 A (in total)
Impulse discharge current (10/350) $\square \mu$ s, peak value I_{imp}	1 kA (per path)
Output voltage limitation at 1 kV/ μ s (Core-Earth) spike	≤ 40 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 40 V
Residual voltage at I_{n} (conductor-ground)	≤ 40 V
Residual voltage with I_{an} (10/1000) μ s (conductor-ground)	≤ 45 V
Voltage 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.	typ. 0.6 dB (500 kHz/50 Ω system)
	typ. 0.1 dB (170 kHz/150 Ω system)
	typ. 0.1 dB (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
Surge protection fault message	None
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)
	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 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Certificates / Approvals



Certification

GOST, UL Listed, GL

Certifications applied for:

Certification Ex:

Accessories

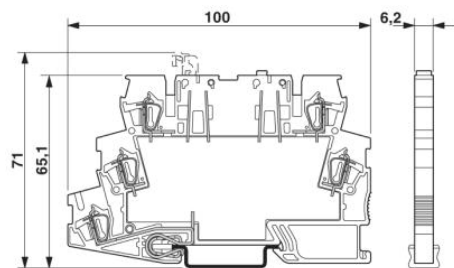
Item	Designation	Description
General		
2858894	TT-D-STTCO-BK	End cover for TERMITRAB TT-ST-..., width: 2.2 mm, color: Black
Marking		
1051993	B-STIFT	Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm
0808749	ZBF 6,LGS:FORTL.ZAHLEN	Zack Marker 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
0808736	ZBF 6/WH-100:UNBEDRUCKT	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
0808710	ZBF 6:UNBEDRUCKT	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

Additional products

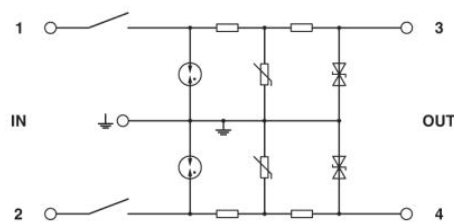
Item	Designation	Description
Assembly		
2839295	SSA 3-6	shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black
2839512	SSA 5-10	Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black
General		
2858894	TT-D-STTCO-BK	End cover for TERMITRAB TT-ST-..., width: 2.2 mm, color: Black

Drawings

Dimensioned drawing



Circuit diagram



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