

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

Item number	2858917
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL02
Product key	CL2224
Catalog page	Page 96 (C-6-2015)
GTIN	4017918938017
Weight per piece (including packing)	30.95 g
Weight per piece (excluding packing)	28.79 g
Customs tariff number	85363030
Country of origin	DE

TT-ST-M-2/2-24DC - Surge protection device



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Technical data

Product properties

IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Type	Double-level terminal block with disconnect knife
Product type	Surge protection for MCR technology
Number of positions	2
Surge protection fault message	none

Insulation characteristics

Overvoltage category	III
Pollution degree	2

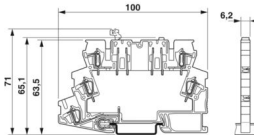
Electrical properties

Nominal voltage U_N	24 V DC
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Connection data

Connection method	Spring-cage connection
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 14

Dimensions

Dimensional drawing	
Width	6.2 mm
Height	100 mm
Depth	65.1 mm (incl. DIN rail 7.5 mm)

Material specifications

Flammability rating according to UL 94	V-2
Housing material	PA 6.6

Mechanical properties

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Mechanical data

Open side panel	Yes
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Protective circuit

Direction of action	Line-Earth Ground
Maximum continuous voltage U_C	30 V DC
	21 V AC
Rated current	300 mA (45 °C)
Operating effective current I_C at U_C	$\leq 10 \mu\text{A}$ (per path)
Standby power consumption P_C	$\leq 1.86 \text{ VA}$
Residual current I_{PE}	$\leq 20 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (line-ground)	5 kA
Pulse discharge current I_{imp} (10/350) μs	1 kA (per path)
Total discharge current I_{total} (8/20) μs	10 kA
Total discharge current I_{total} (10/350) μs	2 kA
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	5 kA
Nominal pulse current I_{an} (10/1000) μs (line-earth)	100 A
	200 A (in total)
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 40 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 40 \text{ V}$
Residual voltage at I_n (conductor-ground)	$\leq 40 \text{ V}$
Residual voltage with I_{an} (10/1000) μs (line-earth)	$\leq 45 \text{ V}$
Voltage protection level U_p (line-earth)	$\leq 80 \text{ V}$ (C2 - 10 kV / 5 kA)
	$\leq 40 \text{ V}$ (static)
Response time t_A (line-earth)	$\leq 1 \text{ ns}$
Input attenuation aE, asym.	typ. 0.6 dB (500 kHz/50 Ω)
	typ. 0.1 dB (170 kHz/150 Ω)
	typ. 0.1 dB (40 kHz / 600 Ω)
Cut-off frequency f_g (3 dB), asym. (PE) in 50 Ω system	typ. 3 MHz
Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ω system	typ. 1 MHz
Cut-off frequency f_g (3 dB), asym. (PE) in 600 Ω system	typ. 250 kHz
Capacity (Core-Earth)	2 nF
Resistance per path	9.4 $\Omega \pm 10 \%$
Surge protection fault message	none
Max. required back-up fuse	315 mA
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 1 kA
	C3 - 100 A

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

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Altitude	max. 2000 m
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Standards and regulations

VDE requirement class	C1
	C2
	C3
	D1

Air clearances and creepage distances

Standards/regulations	EN 60664-1 / IEC 60664-1
Standards/specifications	IEC 61643-21/A1
Note	2008
Standards/specifications	EN 61643-21/A1
Note	2009

Mounting

Mounting type	DIN rail: 35 mm
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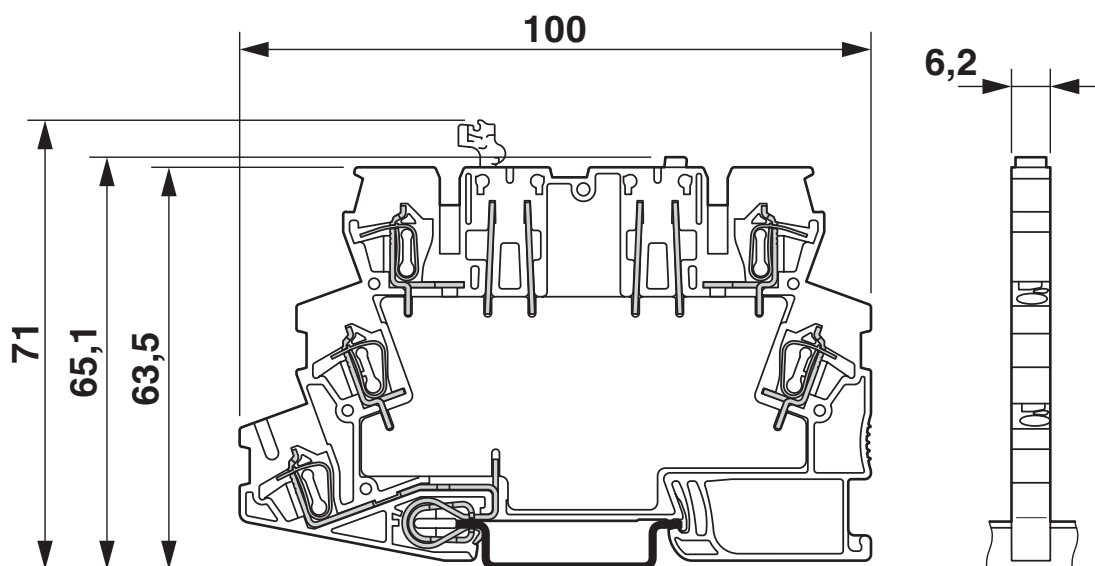
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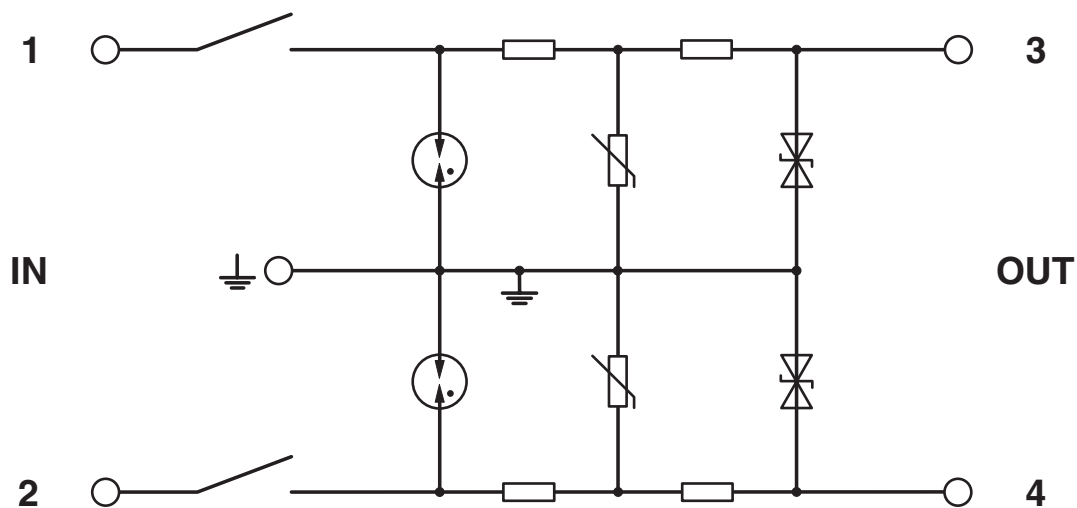


Drawings

Dimensional drawing



Circuit diagram



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Classifications

UNSPSC

UNSPSC 21.0	39121620
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Environmental product compliance

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

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