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Surge protection device - TT-UK5/ 12DC - 2794686

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Modular terminal block with surge voltage fine protection between clamping connector and DIN rail, nominal voltage: 12 V DC, for mounting on NS 32 or NS 35/7.5, terminal width: 6.2 mm, terminal height: 47 mm

The illustration shows version TT-UK5- 24 DC

Why buy this product

- Can be used in the signal circuits of electronic controllers



Key Commercial Data

Packing unit	50 STK
GTIN	 4 017918 072865

Technical data

Dimensions

Height	42.5 mm
Width	6.2 mm
Depth	47 mm

Ambient conditions

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

General

Housing material	PA
Flammability rating according to UL 94	V2
Color	black
Mounting type	DIN rail/G-profile rail
Type	Single-level terminal block
Number of positions	1
Direction of action	Line-Earth Ground

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Technical data

Protective circuit

IEC test classification	C1
	C3
VDE requirement class	C1
	C3
Nominal voltage U_N	12 V DC
Maximum continuous voltage U_C	13 V DC
	9 V AC
Maximum continuous voltage U_C (wire-ground)	13 V DC
	9 V AC
Nominal current I_N	32 A (50 °C)
Residual current I_{PE}	$\leq 5 \mu A$
Nominal discharge current I_n (8/20) μs (Core-Earth)	346 A
Total surge current (8/20) μs	346 A
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	346 A
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	67 A
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 19 V$
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 19 V$
Residual voltage at I_n (conductor-ground)	$\leq 20 V$
Response time t_A (Core-Earth)	$\leq 1 ns$
Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system	typ. 1 MHz
Capacity (Core-Earth)	$\leq 2.35 nF$
Impulse durability (conductor-ground)	C1 (500 A/250 A)
	C3 (25 A)

Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	4 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12

Standards and Regulations

Standards/regulations	IEC 61643-21
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Classifications

eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
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

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

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Approvals

CSA	
mm ² /AWG/kcmil	28-10
Nominal current I _N	34 A
Nominal voltage U _N	12 V

UL Recognized	
mm ² /AWG/kcmil	26-10
Nominal current I _N	30 A
Nominal voltage U _N	12 V

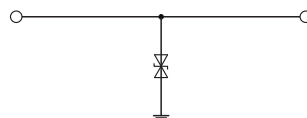
cUL Recognized	
mm ² /AWG/kcmil	26-10
Nominal current I _N	30 A
Nominal voltage U _N	12 V

EAC

cULus Recognized

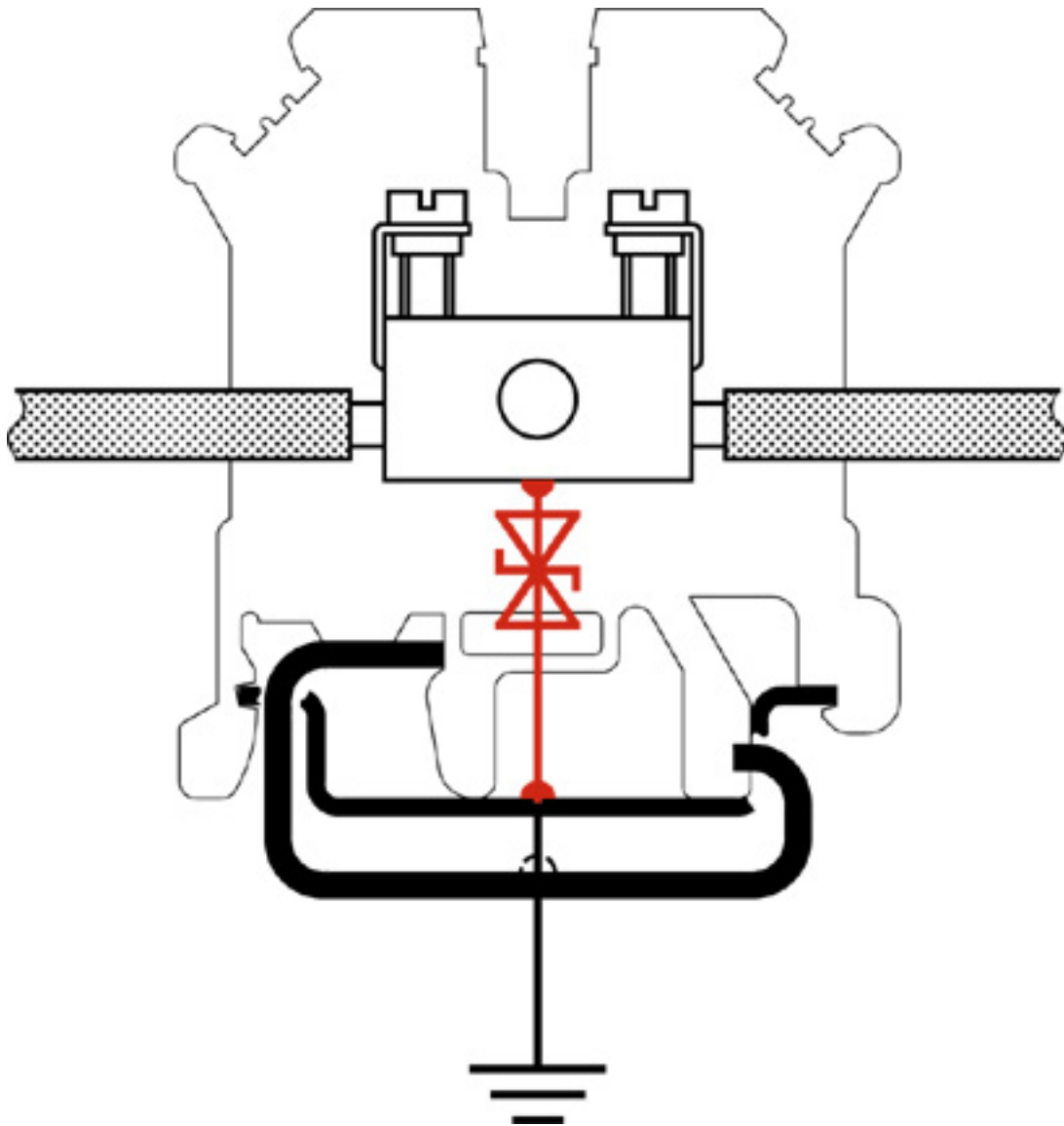
Drawings

Circuit diagram



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Schematic diagram



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