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## Surge protection device - TT-UK5/ 24AC - 2794754

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Modular terminal block with surge voltage fine protection between clamping connector and DIN rail, nominal voltage: 24 V AC, 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

### Key Commercial Data

Packing unit	50 STK
GTIN	 4 017918 072926

### Technical data

#### Dimensions

Height	47 mm
Width	6.2 mm
Length	42.5 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

#### Protective circuit

IEC test classification	C3
VDE requirement class	C3
Nominal voltage $U_N$	24 V AC
Maximum continuous voltage $U_C$	40 V DC

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## Technical data

### Protective circuit

	28 V AC
Maximum continuous voltage $U_c$ (wire-ground)	28 V AC
	40 V DC
Nominal current $I_N$	32 A (50 °C)
Residual current $I_{PE}$	$\leq 5 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$ (Core-Earth)	119 A
Total surge current (8/20) $\mu s$	119 A
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (Core-Earth)	119 A
Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (Core-Earth)	23.2 A
Output voltage limitation at 1 kV/ $\mu s$ (Core-Earth) spike	$\leq 62 V$
Output voltage limitation at 1 kV/ $\mu s$ (Core-Earth) static	$\leq 58 V$
Residual voltage at $I_n$ (conductor-ground)	$\leq 84 V$
Response time $t_A$ (Core-Earth)	$\leq 1 ns$
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system	typ. 1.6 MHz
Capacity (Core-Earth)	$\leq 1.03 nF$
Impulse durability (conductor-ground)	C3 - 10 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 <sup>2</sup>
Conductor cross section flexible max.	4 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
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

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## Classifications

### eCl@ss

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

CSA	
mm <sup>2</sup> /AWG/kcmil	28-10
Nominal current I <sub>N</sub>	34 A
Nominal voltage U <sub>N</sub>	24 V

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## Approvals

UL Recognized	
mm <sup>2</sup> /AWG/kcmil	26-10
Nominal current I <sub>N</sub>	30 A
Nominal voltage U <sub>N</sub>	24 V

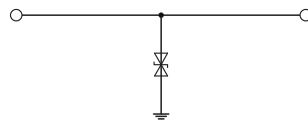
cUL Recognized	
mm <sup>2</sup> /AWG/kcmil	26-10
Nominal current I <sub>N</sub>	30 A
Nominal voltage U <sub>N</sub>	24 V

EAC

cULus Recognized

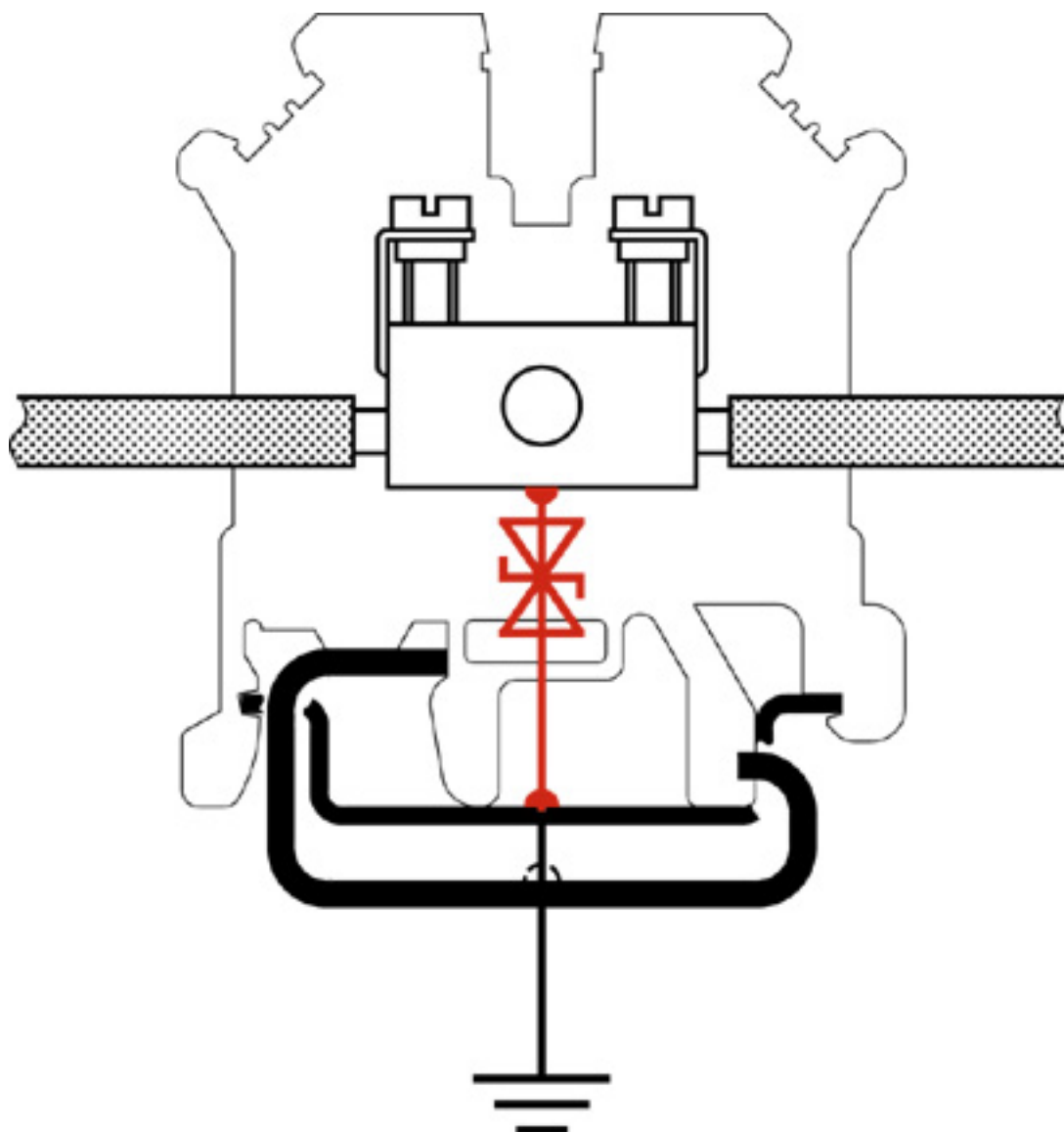
## Drawings

Circuit diagram



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Schematic diagram



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