

# TT-UK5/ 24DC - Surge protection device



2794699

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Terminal block with surge voltage fine protection between clamping connector and DIN rail, nominal voltage: 24 V DC, for mounting on NS 32 or NS 35/7.5, terminal width: 6.2 mm, terminal height: 47 mm

## Commercial data

Item number	2794699
Packing unit	50 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL2
Product key	CL2228
Catalog page	Page 98 (C-6-2013)
GTIN	4017918072872
Weight per piece (including packing)	11.5 g
Weight per piece (excluding packing)	10.65 g
Customs tariff number	85363030
Country of origin	GR

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## Technical data

### Product properties

IEC test classification	C3
VDE requirement class	C3
Type	Single-level terminal block
Product type	Surge protection for MCR technology
Number of positions	1
Surge protection fault message	none

### Electrical properties

Nominal voltage $U_N$	24 V DC
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### Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.8 Nm
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

### Dimensions

Width	6.2 mm
Height	47 mm
Length	42.5 mm

### Material specifications

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

### Mechanical properties

#### Mechanical data

Open side panel	Yes
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### Protective circuit

Direction of action	Line-Earth Ground
Maximum continuous voltage $U_C$	28 V DC
	20 V AC
Rated current	32 A (50 °C)
Residual current $I_{PE}$	≤ 5 μA
Nominal discharge current $I_n$ (8/20) μs (line-ground)	169 A (per path)
Total surge current (8/20) μs	169 A
Max. discharge current $I_{max}$ (8/20) μs maximum (line-earth)	169 A

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Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (line-earth)	33 A
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) spike	$\leq 40$ V
Output voltage limitation at 1 kV/ $\mu$ s (line-earth) static	$\leq 40$ V
Residual voltage at $I_n$ (conductor-ground)	$\leq 55$ V
Response time $t_A$ (line-earth)	$\leq 1$ ns
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 $\Omega$ system	typ. 1.2 MHz
Capacity (Core-Earth)	$\leq 1.35$ nF
Surge protection fault message	none
Impulse durability (line-earth)	C3 - 25 A

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

VDE requirement class	C3
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### Standards Information technology specification

Standards/regulations	IEC 61643-21
	IEC 61643-21

## Mounting

Mounting type	DIN rail: 35 mm
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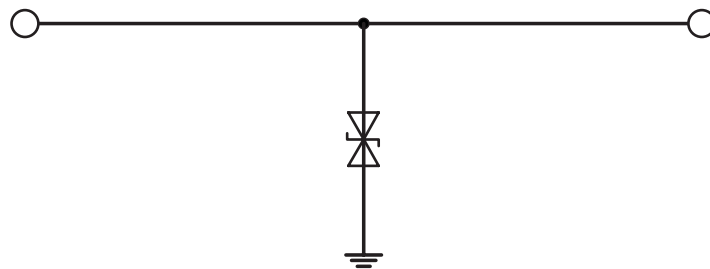
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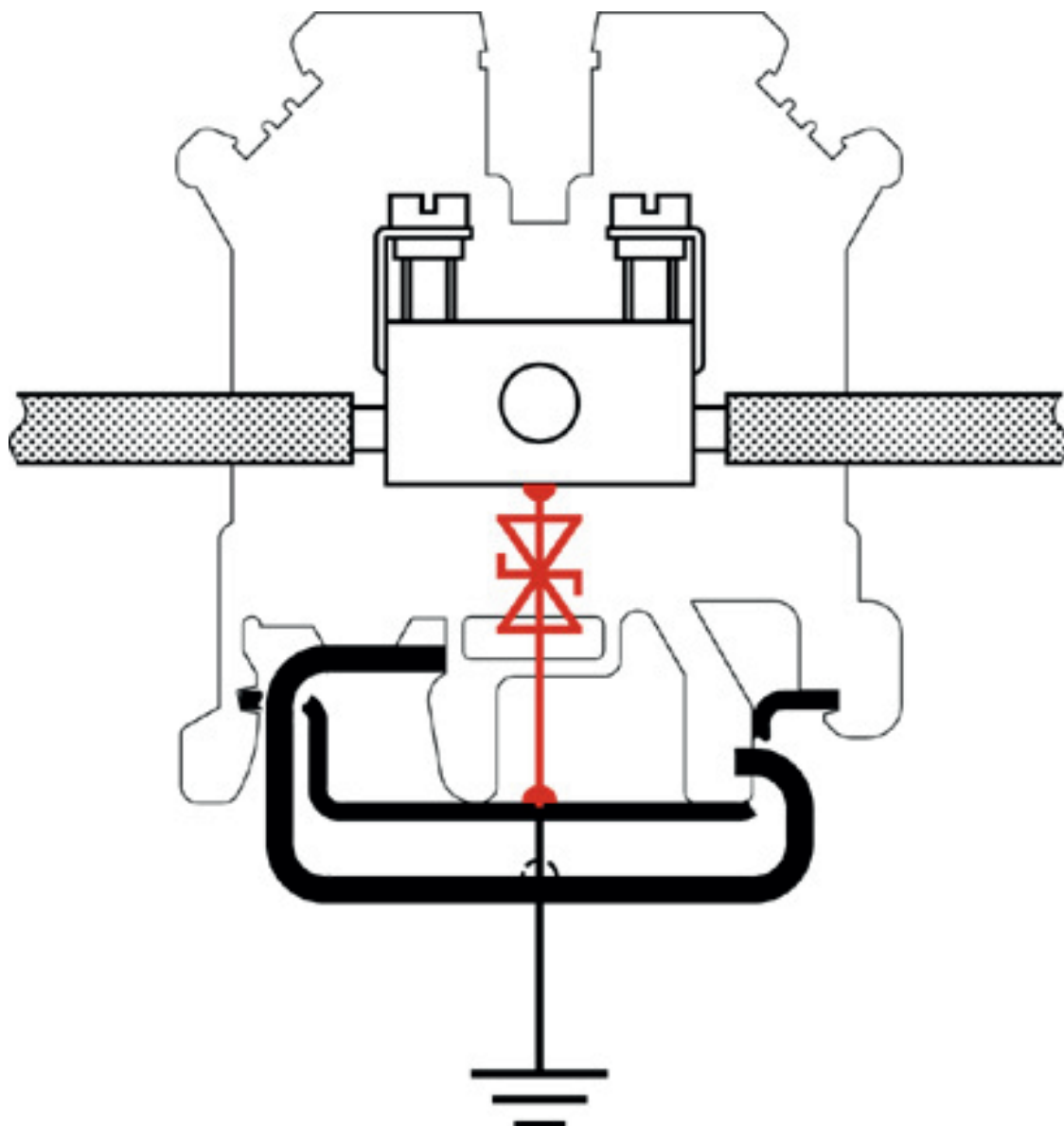


## Drawings

Circuit diagram



Schematic diagram



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## Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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