

## Surge protection device - TT-UK5/ 48DC - 2794709

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Modular terminal block with surge voltage fine protection between clamping connector and DIN rail, nominal voltage: 48 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 pc
GTIN	 4 017918 072889
Weight per Piece (excluding packing)	1.15 g
Custom tariff number	85363030
Country of origin	Greece

### 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
Inflammability class according to UL 94	V2
Color	black
Mounting type	DIN rail/G-profile rail
Type	Single-level terminal block

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## Technical data

### General

Number of positions	1
Direction of action	Line-Earth Ground

### Protective circuit

IEC test classification	C3
VDE requirement class	C3
Nominal voltage $U_N$	48 V DC
Maximum continuous operating voltage $U_C$	53 V DC
	37 V AC
Maximum continuous voltage $U_C$ (wire-ground)	53 V DC
	37 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) $\mu s$ (Core-Earth)	90 A
Total surge current (8/20) $\mu s$	90 A
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (Core-Earth)	90 A
Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (Core-Earth)	17.7 A
Output voltage limitation at 1 kV/ $\mu s$ (Core-Earth) spike	$\leq 80 V$
Output voltage limitation at 1 kV/ $\mu s$ (Core-Earth) static	$\leq 80 V$
Residual voltage at $I_n$ , (conductor-ground)	$\leq 111 V$
Response time $t_A$ (Core-Earth)	$\leq 1 ns$
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system	typ. 3.8 MHz
Capacity (Core-Earth)	$\leq 0.85 nF$
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 stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded 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/kcmil min.	24
Conductor cross section AWG/kcmil 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

### 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

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### Approvals

Nominal current IN	34 A
Nominal voltage UN	48 V

UL Recognized	
mm <sup>2</sup> /AWG/kcmil	26-10
Nominal current IN	30 A
Nominal voltage UN	48 V

cUL Recognized	
mm <sup>2</sup> /AWG/kcmil	26-10
Nominal current IN	30 A
Nominal voltage UN	48 V

EAC
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cULus Recognized
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### Accessories

#### Accessories

##### End cover

End cover - D-TERMITRAB-UK 5 - 2794990



Cover for setting the end of a TT-UK 5 row of terminal blocks, color: black

#### Labeled terminal marker

## Surge protection device - TT-UK5/ 48DC - 2794709

### Accessories

Zack Marker strip, flat - ZBF 6,LGS:FORTL.ZAHLEN - 0808749



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

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Marker for terminal blocks - ZB 6,LGS:L1-N,PE - 1051414



Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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Marker for terminal blocks - ZB 6,LGS:U-N - 1051430



Marker for terminal blocks, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: U, V, W, N, GND, U, V, W, N, GND, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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Terminal marking

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### Accessories

Zack Marker strip, flat - ZBF 6:UNBEDRUCKT - 0808710



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

Zack Marker strip, flat - ZBF 6/WH-100:UNBEDRUCKT - 0808736



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

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

### Additional products

End cover - D-TERMITRAB-UK 5 - 2794990



Cover for setting the end of a TT-UK 5 row of terminal blocks, color: black

Shield connection - SSA 3-6 - 2839295



shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black

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### Accessories

Shield connection - SSA 5-10 - 2839512

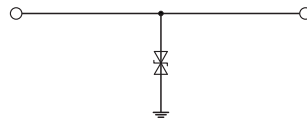


Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

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### Drawings

Circuit diagram



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Schematic diagram

