

## Surge protection device - TT-UK5/ 24DC - 2794699

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Modular 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

### Why buy this product

- Can be used in the signal circuits of electronic controllers



### Key commercial data

Packing unit	1
Minimum order quantity	50
Catalog page	Page 111 (TT-2011)
GTIN	 4 017918 072872
Custom tariff number	85363030
Country of origin	GREECE

### Technical data

#### General

Housing material	PA
Inflammability class according to UL 94	V2
Color	black
Total surge current (8/20) $\mu$ s	169 A
Ambient temperature (operation)	-40 °C ... 85 °C
Mounting type	DIN rail/G-profile rail
Design	Single-level terminal block
Number of positions	1
Degree of protection	IP20
Direction of action	Line-Earth Ground
Width	6.2 mm
Height	47 mm
Length	42.5 mm

#### Protective circuit

## Surge protection device - TT-UK5/ 24DC - 2794699

### Technical data

#### Protective circuit

IEC category	C3
VDE requirement class	C3
Nominal voltage UN	24 V DC
Maximum continuous operating voltage UC	28 V DC
Maximum continuous operating voltage UC	20 V AC
Maximum continuous voltage UC (wire-ground)	28 V DC
Maximum continuous voltage UC (wire-ground)	20 V AC
Nominal current IN	32 A (50°C)
Ground conductor current IPE	≤ 5 μA
Nominal discharge surge current In (8/20) μs (Core-Earth)	169 A
Total surge current (8/20) μs	169 A
Max. discharge surge current I <sub>max</sub> (8/20) μs maximum (Core-Earth)	169 A
Nominal pulse current I <sub>an</sub> (10/1000) μs (Core-Earth)	33 A
Output voltage limitation at 1 kV/μs (Core-Earth) spike	≤ 40 V
Output voltage limitation at 1 kV/μs (Core-Earth) static	≤ 40 V
Residual voltage at In, (conductor-ground)	≤ 55 V
Response time t <sub>A</sub> (Core-Earth)	≤ 1 ns
Cut-off frequency f <sub>g</sub> (3 dB), asym. (PE) in 150 Ohm system	Typ. 1.2 MHz
Capacity (Core-Earth)	≤ 1.35 nF
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	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 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

#### Connection, protective circuit

Standards/regulations	IEC 61643-21
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### Classifications

#### eclass

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801

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## Classifications

### eclass

eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807

### etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	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 / GOST / GOST / cULus Recognized

#### Ex Approvals

#### Approvals submitted

### Approval details

	
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

GOST	
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GOST	
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cULus Recognized	
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## Accessories

Accessories

Assembly

End cover - D-TERMITRAB-UK 5 - 2794990



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

## Marking

## Surge protection device - TT-UK5/ 24DC - 2794699

### Accessories

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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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

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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

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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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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

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Zack marker strip - ZB 6,LGS:L1-N,PE - 1051414



Zack marker strip, 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

## Surge protection device - TT-UK5/ 24DC - 2794699

### Accessories

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Zack marker strip - ZB 6,LGS:U-N - 1051430



Zack marker strip, 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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### 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

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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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Shield connection - SSA 5-10 - 2839512



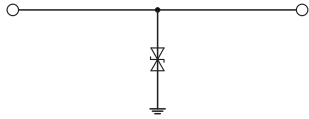
Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

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### Drawings

## Surge protection device - TT-UK5/ 24DC - 2794699

Circuit diagram



Schematic diagram

