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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 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

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#### Approvals

CSA / UL Recognized / cUL Recognized / GOST / GOST / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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### 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



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

## 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



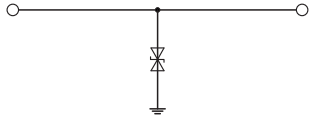
Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

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### Drawings

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

Circuit diagram



Schematic diagram

