

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

Product Features

- Can be used in the signal circuits of electronic controllers



Key commercial data

Packing unit	1 pc
GTIN	 4 017918 072889
Weight per Piece (excluding packing)	11.14 GRM
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

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Technical data

General

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	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) μs (Core-Earth)	90 A
Total surge current (8/20) μs	90 A
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	90 A
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	17.7 A
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	≤ 80 V
Output voltage limitation at 1 kV/ μs (Core-Earth) static	≤ 80 V
Residual voltage at I_n , (conductor-ground)	≤ 111 V
Response time t_A (Core-Earth)	≤ 1 ns
Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system	typ. 3.8 MHz
Capacity (Core-Earth)	≤ 0.85 nF
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	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 ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section solid min.	0.2 mm ²

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Connection data

Conductor cross section solid max.	4 mm ²
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

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

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Approvals

Ex Approvals

Approvals submitted

Approval details

CSA	
mm ² /AWG/kcmil	28-10
Nominal current I _N	34 A
Nominal voltage U _N	48 V

UL Recognized	
mm ² /AWG/kcmil	26-10
Nominal current I _N	30 A
Nominal voltage U _N	48 V

cUL Recognized	
mm ² /AWG/kcmil	26-10
Nominal current I _N	30 A
Nominal voltage U _N	48 V

GOST	
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GOST	
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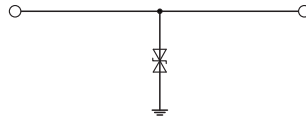
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Approvals



Drawings

Circuit diagram



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Schematic diagram

