Surge protection device - TT-UK5/ 48AC - 2794767

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The illustration shows version TT-UK5- 24 DC

Modular terminal block with surge voltage fine protection between clamping connector and DIN rail, nominal voltage: 48 V AC, for mounting on NS 32 or NS 35/7.5, terminal width: 6.2 mm, terminal height: 47 mm

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	12.4 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
Color	black
Mounting type	DIN rail/G-profile rail
Type	Single-level terminal block
Number of positions	1
Direction of action	Line-Earth Ground

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Technical data

Protective circuit

IEC test classification	C3
VDE requirement class	C3
Nominal voltage U_N	48 V AC
Maximum continuous operating voltage U_C	77 V DC
	55 V AC
Maximum continuous voltage U_C (wire-ground)	55 V AC
	77 V DC
Nominal current I_N	32 A (50 °C)
Residual current I_{PE}	≤ 5 µA
Nominal discharge current I_n (8/20) µs (Core-Earth)	62 A
Total surge current (8/20) µs	62 A
Max. discharge current I_{max} (8/20) µs maximum (Core-Earth)	62 A
Nominal pulse current Ian (10/1000) µs (Core-Earth)	12 A
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 120 V
Residual voltage at I_n, (conductor-ground)	≤ 162 V
Response time tA (Core-Earth)	≤ 1 ns
Cut-off frequency fg (3 dB), asym. (PE) in 150 Ohm system	typ. 2.9 MHz
Capacity (Core-Earth)	≤ 0.63 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 mm²
Conductor cross section stranded max.	4 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
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 / GOST / GOST / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

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Approvals

CSA

mm²/AWG/kcmil	28-10
Nominal current IN	34 A
Nominal voltage UN	48 V

UL Recognized

mm²/AWG/kcmil	26-10
Nominal current IN	30 A
Nominal voltage UN	48 V

cUL Recognized

mm²/AWG/kcmil	26-10
Nominal current IN	30 A
Nominal voltage UN	48 V

GOST

GOST

cULus Recognized

Drawings

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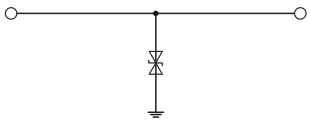
Circuit diagram



Schematic diagram