

## Surge protection device - TT-UK5/ 24AC - 2794754

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Modular terminal block with surge voltage fine protection between clamping connector and DIN rail, nominal voltage: 24 V AC, 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



### Key commercial data

Packing unit	1 pc
GTIN	 4 017918 072926
Weight per Piece (excluding packing)	11.13 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

## Surge protection device - TT-UK5/ 24AC - 2794754

### Technical data

#### General

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 $U_N$	24 V AC
Maximum continuous operating voltage $U_C$	40 V DC
	28 V AC
Maximum continuous voltage $U_C$ (wire-ground)	28 V AC
	40 V DC
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)	119 A
Total surge current (8/20) $\mu s$	119 A
Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (Core-Earth)	119 A
Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (Core-Earth)	23.2 A
Output voltage limitation at 1 kV/ $\mu s$ (Core-Earth) spike	$\leq 62 V$
Output voltage limitation at 1 kV/ $\mu s$ (Core-Earth) static	$\leq 58 V$
Residual voltage at $I_n$ , (conductor-ground)	$\leq 84 V$
Response time $t_A$ (Core-Earth)	$\leq 1 ns$
Cut-off frequency $f_g$ (3 dB), asym. (PE) in 150 Ohm system	typ. 1.6 MHz
Capacity (Core-Earth)	$\leq 1.03 nF$
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 <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

# Surge protection device - TT-UK5/ 24AC - 2794754

## Technical data

### Connection data

Conductor cross section AWG/kcmil max	12
---------------------------------------	----

### Standards and Regulations

Standards/regulations	IEC 61643-21
-----------------------	--------------

## 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 / cULus Recognized

---

Ex Approvals

# Surge protection device - TT-UK5/ 24AC - 2794754

## Approvals

Approvals submitted

### 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

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

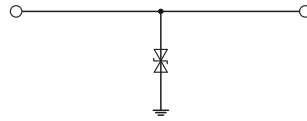
cUL Recognized	
mm <sup>2</sup> /AWG/kcmil	26-10
Nominal current I <sub>N</sub>	30 A
Nominal voltage U <sub>N</sub>	24 V

cULus Recognized	
------------------	--

## Drawings

# Surge protection device - TT-UK5/ 24AC - 2794754

Circuit diagram



Schematic diagram

