

Surge protection device - TT-UK5/ 12AC - 2794741

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: 12 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	50 pc
GTIN	 4 017918 072919
Weight per Piece (excluding packing)	11.15 g
Custom tariff number	85363030
Country of origin	Greece
Note	Made to Order (non-returnable)

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

Surge protection device - TT-UK5/ 12AC - 2794741

Technical data

General

Direction of action	Line-Earth Ground
---------------------	-------------------

Protective circuit

IEC test classification	C3
VDE requirement class	C3
Nominal voltage U_N	12 V AC
Maximum continuous operating voltage U_C	18 V DC
	13 V AC
Maximum continuous voltage U_C (wire-ground)	13 V AC
	18 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) μs (Core-Earth)	245 A
Total surge current (8/20) μs	245 A
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	245 A
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	49 A
Output voltage limitation at 1 kV/ μs (Core-Earth) static	$\leq 28 V$
Residual voltage at I_n , (conductor-ground)	$\leq 39 V$
Response time t_A (Core-Earth)	$\leq 1 ns$
Cut-off frequency f_g (3 dB), asym. (PE) in 150 Ohm system	typ. 1.5 MHz
Capacity (Core-Earth)	$\leq 1.85 nF$
Impulse durability (conductor-ground)	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 ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section solid min.	0.2 mm ²
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
-----------------------	--------------

Surge protection device - TT-UK5/ 12AC - 2794741

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 / EAC / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

CSA	
mm ² /AWG/kcmil	28-10

Surge protection device - TT-UK5/ 12AC - 2794741

Approvals

Nominal current IN	34 A
Nominal voltage UN	12 V

UL Recognized	
mm ² /AWG/kcmil	26-10
Nominal current IN	30 A
Nominal voltage UN	12 V

cUL Recognized	
mm ² /AWG/kcmil	26-10
Nominal current IN	30 A
Nominal voltage UN	12 V

EAC

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

Accessories

Accessories

End cover

End cover - D-TERMITRAB-UK 5 - 2794990



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

Labeled terminal marker

Surge protection device - TT-UK5/ 12AC - 2794741

Accessories

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

Marker for terminal blocks - ZB 6,LGS:L1-N,PE - 1051414



Marker for terminal blocks, 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

Marker for terminal blocks - ZB 6,LGS:U-N - 1051430



Marker for terminal blocks, 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

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

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Terminal marking

Surge protection device - TT-UK5/ 12AC - 2794741

Accessories

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

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

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

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

Shield connection - SSA 3-6 - 2839295



shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black

Surge protection device - TT-UK5/ 12AC - 2794741

Accessories

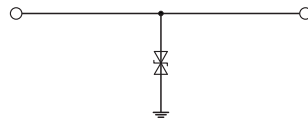
Shield connection - SSA 5-10 - 2839512



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

Drawings

Circuit diagram



Surge protection device - TT-UK5/ 12AC - 2794741

Schematic diagram

