

Surge protection device - TT-2-PE-110AC - 2858483

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 two-stage surge protection for a floating double conductor, separate PE connection, nominal voltage: 110 V AC, for mounting on NS 35/7.5, terminal block width 6.2 mm, terminal block height: 54.6 mm

Product Features

- ✓ Versions with and without disconnect knife
- ✓ Protection of a floating double wire
- ✓ Protection of two signal wires with common reference potential
- ✓ Multi-stage modular terminal blocks with screw connection technology
- ✓ Disconnection of signal circuits by disconnect knife



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	26.47 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	79.6 mm
Width	6.2 mm
Depth	54.6 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP20

Surge protection device - TT-2-PE-110AC - 2858483

Technical data

General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	IEC 60664-1
Mounting type	DIN rail: 35 mm
Type	Double-level terminal block with PE foot – separate PE connection
Number of positions	2
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U_N	110 V AC
	120 V AC
	120 V AC
Nominal current I_N	300 mA (30 °C)
Operating effective current I_C at U_C	$\leq 5 \mu A$
Residual current I_{PE}	$\leq 10 \mu A$
Nominal discharge current I_n (8/20) μs (Core-Core)	5 kA
Nominal discharge current I_n (8/20) μs (Core-Earth)	5 kA
Total surge current (8/20) μs	10 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Core)	5 kA
Max. discharge current I_{max} (8/20) μs maximum (Core-Earth)	5 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	100 A
Impulse discharge current (10/350) μs , peak value I_{imp}	500 A
Output voltage limitation at 1 kV/ μs (Core-Core) spike	$\leq 250 V$
Output voltage limitation at 1 kV/ μs (Core-Earth) spike	$\leq 650 V$
Voltage protection level U_P (Core-Core)	$\leq 300 V$ (C2 - 10 kV / 5 kA)
	$\leq 250 V$ (C1 - 1 kV/500 A)
Voltage protection level U_P (Core-Earth)	$\leq 900 V$ (C2 - 10 kV / 5 kA)
	$\leq 650 V$ (C1 - 1 kV/500 A)
	$\leq 850 V$ (C3 - 10 A)
	$\leq 900 V$ (C3 - 100 A)
	$\leq 800 V$ (D1 - 500 A)
Response time t_A (Core-Core)	$\leq 1 ns$

Surge protection device - TT-2-PE-110AC - 2858483

Technical data

Protective circuit

Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 1.5 dB (≤ 2 MHz)
	typ. 0.6 dB (≤ 500 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 15 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 8 MHz
Capacity (Core-Core)	typ. 600 pF
Capacity (Core-Earth)	≤ 2 pF
Resistance in series	9.4 Ω 10 % (per path)
	9.4 Ω
Surge protection fault message	None
Max. required back-up fuse	315 mA (T/IEC 60127-2/3)
Surge current resistance (conductor-conductor)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
Surge current resistance (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C3 - 100 A
	D1 (500 A)
Alternating current carrying capacity (conductor-conductor)	0.1 A/1 s
Alternating current carrying capacity (conductor-ground)	1 A/1s

Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 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	14

Standards and Regulations

Standards/regulations	IEC 61643-21
	EN 61643-21

Surge protection device - TT-2-PE-110AC - 2858483

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

GOST

Ex Approvals

Approvals submitted

Approval details

Surge protection device - TT-2-PE-110AC - 2858483

Approvals



Accessories

Accessories

End cover

End cover - D-DEK 1,5 BK - 2838995



Cover for setting the end of a TERMITRAB TT-2-PE... and TT-2/2 row of terminal blocks, color: black

Labeled terminal marker

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 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-2-PE-110AC - 2858483

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

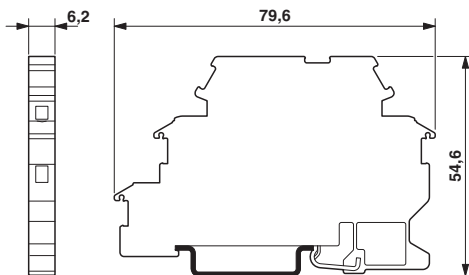
Zack Marker strip, flat - ZBF 6/WH-100:UNBEDRUCKT - 0808736



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

Drawings

Dimensioned drawing



Circuit diagram

