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

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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

Why buy this product

- 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
Minimum order quantity	1
Catalog page	Page 106 (TT-2011)
GTIN	4 017918 893156
Custom tariff number	85363010
Country of origin	GERMANY

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
Total surge current (8/20) µs	10 kA
Ambient temperature (operation)	-40 °C ... 85 °C
Mounting type	DIN rail: 35 mm
Design	Double-level terminal block with PE foot – separate PE connection
Number of positions	2
Degree of protection	IP20
Direction of action	Line-Line & Line-Earth Ground

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Technical data

General

Width	6.2 mm
Height	79.6 mm
Depth	54.6 mm

Protective circuit

IEC category	C1
IEC category	C2
IEC category	C3
IEC category	D1
Nominal voltage UN	110 V AC
Maximum continuous operating voltage UC	120 V AC
Maximum continuous voltage UC (wire-wire)	120 V AC
Nominal current IN	300 mA (30 °C)
Operating effective current IC at UC	≤ 5 µA
Ground conductor current IPE	≤ 10 µA
Nominal discharge surge current In (8/20) µs (Core-Core)	5 kA
Nominal discharge surge current In (8/20) µs (Core-Earth)	5 kA
Total surge current (8/20) µs	10 kA
Max. discharge surge current Imax (8/20) µs maximum (Core-Core)	5 kA
Max. discharge surge current Imax (8/20) µs maximum (Core-Earth)	5 kA
Nominal pulse current Ian (10/1000) µs (Core-Earth)	100 A
Lightning test current (10/350) µs, peak value limp	500 A
Output voltage limitation at 1 kV/µs (Core-Core) spike	≤ 250 V
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 650 V
Protection level UP (Core-Core)	≤ 300 V (C2 - 10 kV / 5 kA)
Protection level UP (Core-Core)	≤ 250 V (C1 - 1 kV/500 A)
Protection level UP (Core-Earth)	≤ 900 V (C2 - 10 kV / 5 kA)
Protection level UP (Core-Earth)	≤ 650 V (C1 - 1 kV/500 A)
Protection level UP (Core-Earth)	≤ 850 V (C3 - 10 A)
Protection level UP (Core-Earth)	≤ 900 V (C3 - 100 A)
Protection level UP (Core-Earth)	≤ 800 V (D1 - 500 A)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	Typ. 1.5 dB (≤ 2 MHz)
Input attenuation aE, sym.	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)
Resistance in series	9.4 Ω
Message: Surge protection fault	None

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Protective circuit

Max. required back-up fuse	315 mA (T/IEC 60127-2/3)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (1 kV / 500 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (1 kV / 500 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C3 (100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	D1 (500 A)
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Core)	0.1 A/1 s
Alternating current carrying capacity in acc. with IEC 61643-21 (Core-Earth)	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 mm²
Conductor cross section stranded max.	2.5 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	14

Connection, protective circuit

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

Classifications

eclass

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

etim

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943

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Classifications

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

GOST

Accessories

Accessories

Assembly

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

Marking

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Accessories

Marker pen - B-STIFT - 1051993

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

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, 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

Additional products

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

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Accessories

Shield connection - SSA 3-6 - 2839295

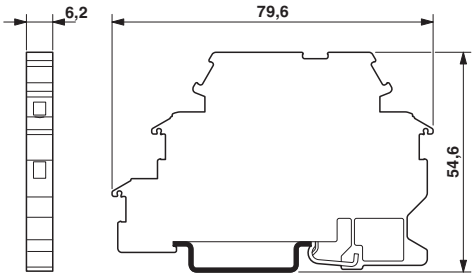
shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black

Shield connection - SSA 5-10 - 2839512

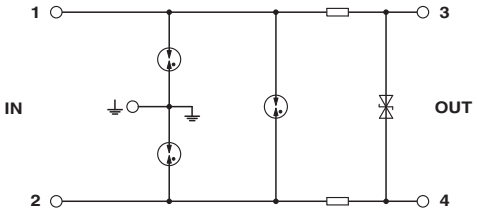
Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

Drawings

Dimensioned drawing



Circuit diagram



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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Подбор аналогов;
- Консультации по применению компонента;
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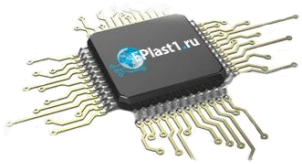
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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