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

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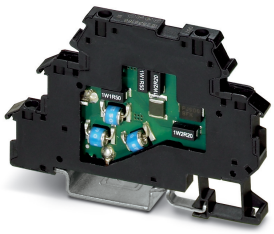
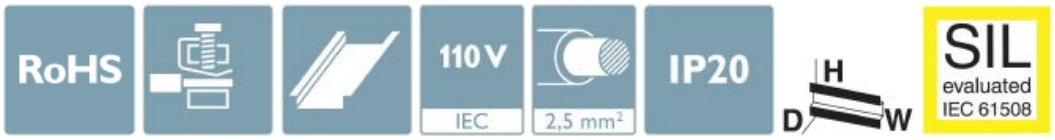


Modular terminal block with two-stage surge protection for a floating double conductor, separate PE connection, nominal voltage: 110 V AC, for mounting on NS 35/7.5, terminal block width 6.2 mm, terminal block height: 54.6 mm

Your advantages

- Space-saving and cost-saving with a narrow overall width of just 6 mm
- Cost-optimized with tailored product features
- Easy selection for all possible demands in MCR applications with a complete product portfolio



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	4 017918 893156
GTIN	4017918893156
Weight per Piece (excluding packing)	26.470 g
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

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Technical data

Ambient conditions

Altitude	≤ 2000 m
Degree of protection	IP20

General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	black
Standards for cearances 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
Maximum continuous voltage U_C	120 V AC
Rated current	300 mA (30 °C)
Operating effective current I_C at U_C	≤ 5 µA
Residual current I_{PE}	≤ 10 µA
Nominal discharge current I_n (8/20) µs (line-line)	5 kA
Nominal discharge current I_n (8/20) µs (line-earth)	5 kA
Pulse discharge current I_{imp} (10/350) µs	500 A
Total discharge current I_{total} (8/20) µs	10 kA
Max. discharge current I_{max} (8/20) µs maximum (line-line)	5 kA
Max. discharge current I_{max} (8/20) µs maximum (line-earth)	5 kA
Nominal pulse current Ian (10/1000) µs (line-earth)	100 A
Output voltage limitation at 1 kV/µs (line-line) spike	≤ 250 V
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 650 V
Voltage protection level U_p (line-line)	≤ 300 V (C2 - 10 kV / 5 kA)
	≤ 250 V (C1 - 1 kV/500 A)
Voltage protection level U_p (line-earth)	≤ 900 V (C2 - 10 kV / 5 kA)
	≤ 650 V (C1 - 1 kV/500 A)
	≤ 850 V (C3 - 10 A)
	≤ 900 V (C3 - 100 A)

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Protective circuit

	≤ 800 V (D1 - 500 A)
Response time t_A (line-line)	≤ 1 ns
Response time t_A (line-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 Ω system	typ. 15 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ω system	typ. 8 MHz
Capacity (line-line)	typ. 600 pF
Capacity (line-earth)	≤ 2 pF
Resistance per path	9.4 Ω 10 %
Surge protection fault message	none
Max. required back-up fuse	315 mA (T/IEC 60127-2/3)
Impulse durability (line-line)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
Impulse durability (line-earth)	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 100 A
	D1 - 500 A
Alternating current carrying capacity (line-line)	0.1 A - 1 s
Alternating current carrying capacity (line-earth)	1 A - 1 s

Connection data

Connection method	Screw connection
Connection method IN	Screw terminal blocks
Connection method OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section solid	0.2 mm² ... 4 mm²
Conductor cross section AWG	24 ... 14

Standards and Regulations

Standards/regulations	IEC 61643-21
	EN 61643-21
Standards/specifications	IEC 61643-21/A1 2008
	EN 61643-21/A1 2009

Environmental Product Compliance

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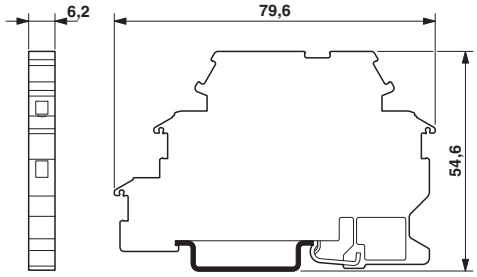
Environmental Product Compliance

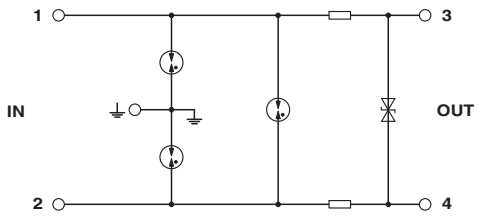
REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

Dimensional drawing



Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27130807
eCl@ss 11.0	27130807
eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130807
eCl@ss 9.0	27130807

ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 6.0	EC000943
ETIM 7.0	EC000943

UNSPSC

UNSPSC 6.01	30212010

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UNSPSC

UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

EAC	EAC	EAC-Zulassung
EAC	EAC	RU C-DE.*09.B.00169