

Surge protection device - PT-IQ-1X2-TELE-PT - 2801290

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Surge protective device, consisting of plug and base element, with integrated multi-stage status indicator on the module, for protecting a double wire for analog and digital telecommunications interfaces (VDSL up to 50 Mbps, on short paths (< 300 m) up to 100 Mbps).



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356766715

Technical data

Dimensions

Height	109.3 mm
Width	17.7 mm
Depth	77.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 4000 m (amsl (above mean sea level))
Degree of protection	IP20

General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	jet black RAL 9005
Mounting type	DIN rail: 35 mm
Type	DIN rail module, two-section, divisible
Direction of action	Line-Line & Line-Earth Ground

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Technical data

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
	B2
VDE requirement class	C1
	C2
	C3
	D1
	B2
Nominal voltage U_N	180 V DC
Maximum continuous voltage U_C	180 V DC
Rated current	150 mA (25 °C)
Operating effective current I_C at U_C	$\leq 1 \mu A$
Residual current I_{PE}	$\leq 1 \mu A$
Nominal discharge current I_n (8/20) μs (line-line)	10 kA
Nominal discharge current I_n (8/20) μs (line-earth)	10 kA
Pulse discharge current I_{imp} (10/350) μs (line-earth)	2.5 kA
Total discharge current I_{total} (8/20) μs	20 kA
Voltage protection level U_p (line-line)	≤ 290 V (B2 - 100 A)
	≤ 290 V (C1 - 1 kV)
	≤ 290 V (C2 - 10 kV)
	≤ 300 V (C2 - 10 kA)
	≤ 290 V (C3 - 50 A)
Voltage protection level U_p (line-earth)	≤ 500 V (B2 - 100 A)
	≤ 600 V (C1 - 1 kV)
	≤ 600 V (C2 - 10 kV)
	≤ 650 V (C2 - 10 kA)
	≤ 700 V (C3 - 50 A)
Response time t_A (line-line)	≤ 1 ns
Response time t_A (line-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 5 MHz / 150 Ω)
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	typ. 25 MHz
Capacity (line-line)	typ. 60 pF
Resistance in series	1.2 $\Omega \pm 5\%$
Surge protection fault message	Optical, multi-stage
Max. required back-up fuse	150 mA (slow-blow)
Impulse durability (line-line)	C1 - 500 A
	C2 - 10 kA
	C3 - 50 A

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Protective circuit

	B2 - 100 A
Impulse durability (line-earth)	C1 - 500 A
	C2 - 10 kA
	C3 - 50 A
	B2 - 100 A
	D1 - 2.5 kA
Pulse reset time (line-line)	≤ 30 ms

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

Standards and Regulations

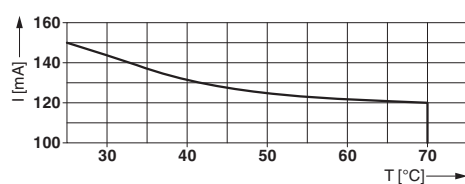
Standards/specifications	IEC 61643-21 2000 + A1:2008 + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013
	EN 61000-6-2 2005
	EN 61000-6-3 2007 + A1:2011

Environmental Product Compliance

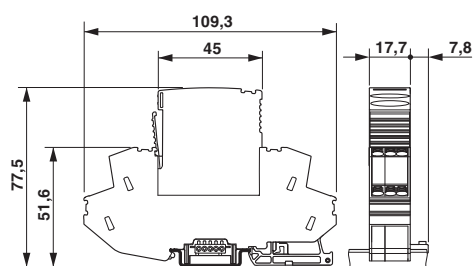
REACH SVHC	Lead 7439-92-1
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Drawings

Diagram

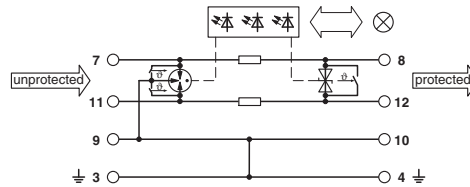


Dimensional drawing



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Circuit diagram



Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

UL Listed



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FILE E 477688

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