

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

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>)



Surge protective device, consisting of connector 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).

The figure shows the PT-IQ-1x2-24DC-PT version



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 766715
Weight per Piece (excluding packing)	135.0 g
Custom tariff number	85363010
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Dimensions

Height	109.3 mm
Width	17.7 mm
Depth	77.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

General

Housing material	PA 6.6
Inflammability class according to UL 94	V-0
Color	black
Mounting type	DIN rail mounting
Type	DIN rail module, two-section, divisible

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

Technical data

General

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

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
Nominal current I_N	150 mA (25 °C)
Operating effective current I_C at U_C	$\leq 1 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (Core-Core)	10 kA
Nominal discharge current I_n (8/20) μs (Core-Earth)	10 kA
Pulse discharge current I_{imp} (10/350) μs (core-ground)	2.5 kA
Impulse discharge current (10/350) μs , peak value I_{imp}	2.5 kA
Voltage protection level U_p (core-core)	$\leq 290 \text{ V}$ (B2 - 100 A)
	$\leq 290 \text{ V}$ (C1 - 1 kV)
	$\leq 290 \text{ V}$ (C2 - 10 kV)
	$\leq 300 \text{ V}$ (C2 - 10 kA)
	$\leq 290 \text{ V}$ (C3 - 50 A)
Voltage protection level U_p (core-ground)	$\leq 500 \text{ V}$ (B2 - 100 A)
	$\leq 600 \text{ V}$ (C1 - 1 kV)
	$\leq 600 \text{ V}$ (C2 - 10 kV)
	$\leq 650 \text{ V}$ (C2 - 10 kA)
	$\leq 700 \text{ V}$ (C3 - 50 A)
Response time t_A (Core-Core)	$\leq 1 \text{ ns}$
Response time t_A (Core-Earth)	$\leq 100 \text{ ns}$
Input attenuation a_E , sym.	typ. 0.3 dB (5 MHz)
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	typ. 25 MHz
Capacity (Core-Core)	typ. 60 pF
Resistance in series	1.2 $\Omega \pm 5 \%$
Max. required back-up fuse	150 mA (slow-blow)
Impulse durability (conductor-conductor)	C1 - 500 A
	C2 - 10 kA
	C3 - 50 A

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

Technical data

Protective circuit

	B2 - 100 A
Impulse durability (conductor-ground)	C1 - 500 A
	C2 - 10 kA
	C3 - 50 A
	B2 - 100 A
	D1 - 2,5 kA
Pulse reset time (conductor-conductor)	≤ 30 ms

Connection data

Connection method	Push-in connection
Connection type IN	Push-in connection
Connection type OUT	Push-in connection
Stripping length	10 mm
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible 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 min.	24
Conductor cross section AWG max.	12

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 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

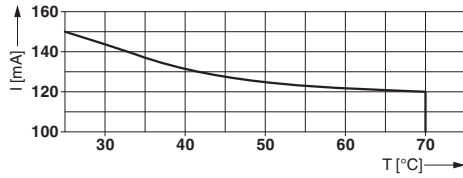
UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

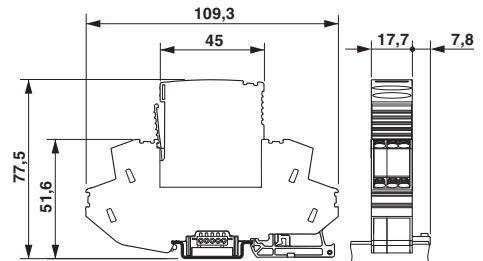
Surge protection device - PT-IQ-1X2-TELE-PT - 2801290

Drawings

Diagram



Dimensional drawing



Circuit diagram

