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Surge protection, consisting of protective plug and base element, with integrated multi-stage status indicator on the module for two signal wires with common reference potential.

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

Product Features

- Surge protection system
- Multi-level state monitoring
- ☑ Collective message about supply and remote module
- Up to 28 protection modules per supply module
- Maximum ease of maintenance thanks to the two-piece design

- ☑ Base element remains an integral part of the installation







Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	140.0 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	91.1 mm
Width	17.7 mm



Technical data

Dimensions

Depth	77.5 mm
Horizontal pitch	1 Div.

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	V0		
Color	black		
Mounting type	DIN rail mounting		
Туре	DIN rail module, two-section, divisible		
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield Earth Ground		

Protective circuit

IEC test classification	C1	
	C2	
	C3	
	D1	
Nominal voltage U _N	48 V	
Maximum continuous operating voltage U _C	53 V DC	
	37 V AC	
Nominal current I _N	300 mA (Up to 45°C)	
Operating effective current I _C at U _C	≤ 6 µA (per path)	
Residual current I _{PE}	≤ 6 µA (per path)	
Nominal discharge current I _n (8/20) µs (Core-Earth)	10 kA	
Total surge current (8/20) µs	20 kA	
Impulse discharge current (10/350)#µs, peak value l _{imp}	2.5 kA	
Voltage protection level U _P (Core-Earth)	≤ 105 V (C1 - 1 kV/500 A)	
	≤ 160 V (C2 - 10 kV / 5 kA)	
	≤ 90 V (C3 - 25 A)	
Response time tA (Core-Earth)	≤ 1 ns	
	≤ 1 ns	
Input attenuation aE, asym.	typ. 0.3 dB (≤ 530 kHz)	
Cut-off frequency fg (3 dB), asym. (PE) in 150 Ohm system	typ. 1.9 MHz	
Capacity (Core-Earth)	1.5 nF	



Technical data

Protective circuit

Resistance in series	1.2 Ω ±5 %
Surge protection fault message	Optical, multi-stage
Max. required back-up fuse	315 mA (FF)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (1 kV / 500 A)
	C2 (10 kV / 5 kA)
	C2 (10 kA)
	C3 (25 A)
	D1 - 2,5 kA
Pulse reset time tr in acc. with IEC 61643-21 (Core-Earth)	≤ 1500 ms
Overload failure mode as per IEC 61643-21 (plug)	Mode 2

Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Tightening torque	0.5 Nm
Stripping length	8 mm
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	12

Connection, equipotential bonding

Connection method	NS 35 DIN rail or connection terminal block
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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



Classifications

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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

UL Listed

Ex Approvals

Approvals submitted

Approval details

JL	Listed	(VL

Drawings



Diagram

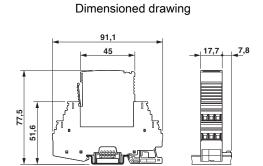
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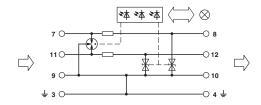
100

30 35 40 45 50 55 60 65 70 75

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Circuit diagram



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