Surge protection device - PT-IQ-4X1-48DC-UT - 2801219

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The figure shows the PT-IQ-2x2-24DC-UT version

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

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 745093
Weight per Piece (excluding packing)	145.4 g
Custom tariff number	85363010
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Dimensions

Height	91 mm
Width	17.7 mm
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	V-0

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Technical data

General

Color	jet black RAL 9005
Mounting type	DIN rail: 35 mm
Type	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 DC
Maximum continuous voltage U_C	53 V DC
	37 V AC
Nominal current I_N	300 mA
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
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-ground)	≤ 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
Input attenuation aE, asym.	typ. 0.3 dB (≤ 530 kHz/150 Ω)
Cut-off frequency fg (3 dB), asym. (PE) in 150 Ohm system	typ. 1.9 MHz
Capacity (Core-GND)	typ. 1.5 nF
Resistance in series	1.2 Ω ±5 %
Max. required back-up fuse	315 mA (FF)
Impulse durability (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C2 - 10 kA
	C3 - 25 A
	D1 - 2,5 kA
Pulse reset time (conductor-ground)	≤ 1500 ms

Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.5 Nm

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Connection data

Stripping length	8 mm
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
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	27141116

ETIM

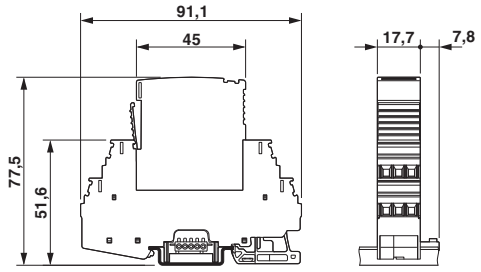
ETIM 3.0	EC000943
ETIM 4.0	EC000899
ETIM 5.0	EC000943

UNSPSC

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

Drawings

Dimensional drawing



Circuit diagram