

Surge protection device - PT-IQ-2X2+F-48DC-UT - 2800987

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Surge protection, consisting of protective plug and base element, with integrated multi-stage status indicator on the module for two 2-wire floating signal circuits. Indirect grounding via gas-filled surge arrester.

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

Product Features

- ✓ Surge protection system
- ✓ Multi-level state monitoring
- ✓ Collective message about supply and remote module
- ✓ System supplied via DIN rail bus
- ✓ Up to 28 protection modules per supply module
- ✓ Maximum ease of maintenance thanks to the two-piece design
- ✓ Codable plug
- ✓ Impedance-neutral disconnection of plug for maintenance purposes
- ✓ Base element remains an integral part of the installation



Key commercial data

Packing unit	1 pc
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	91.1 mm
Width	17.7 mm
Depth	77.5 mm

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Technical data

Dimensions

Horizontal pitch	1 Div.
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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	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	$\leq 5 \mu A$ (in the signal circuit)
Residual current I_{PE}	$\leq 1 \mu A$
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
Total surge current (8/20) μs	20 kA
Impulse discharge current (10/350) μs , peak value I_{imp}	2.5 kA
Voltage protection level U_p (core-core)	$\leq 100 V$ (C1 - 1 kV/500 A)
	$\leq 150 V$ (C2 - 10 kV / 5 kA)
	$\leq 170 V$ (C2 - 10 kA)
	$\leq 90 V$ (C3 - 25 A)
	$\leq 95 V$ (C3 - 100 A)
Voltage protection level U_p (core-ground)	$\leq 900 V$ (C1 - 1 kV/500 A)
	$\leq 1300 V$ (C2 - 10 kV / 5 kA)

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Protective circuit

	$\leq 1200 \text{ V (C2 - 10 kA)}$
	$\leq 1000 \text{ V (C3 - 25 A)}$
	$\leq 1300 \text{ V (C3 - 100 A)}$
Voltage protection level U_p (core-GND)	$\leq 600 \text{ V (C1 - 1 kV/500 A)}$
	$\leq 750 \text{ V (C2 - 10 kV / 5 kA)}$
	$\leq 800 \text{ V (C2 - 10 kA)}$
	$\leq 700 \text{ V (C3 - 25 A)}$
	$\leq 800 \text{ V (C3 - 100 A)}$
Voltage protection level U_p static (core-core)	$\leq 85 \text{ V (C2 - 10 kA)}$
Response time t_A (Core-Core)	$\leq 1 \text{ ns}$
Response time t_A (Core-Earth)	$\leq 100 \text{ ns}$
	$\leq 100 \text{ ns}$
Input attenuation a_E , sym.	typ. $0.3 \text{ dB } (\leq 450 \text{ kHz})$
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	typ. 1.9 MHz
Capacity (Core-Earth)	typ. 1.5 nF
Resistance in series	$1.2 \Omega \pm 5 \%$
Surge protection fault message	Optical, multi-stage
Max. required back-up fuse	315 mA (FF)
Impulse durability (conductor-conductor)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C2 - 10 kA
	C3 - 100 A
Impulse durability (conductor-ground)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C2 - 10 kA
	C3 - 100 A
	D1 - 2.5 kA
Impulse durability (conductor-GND)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	C2 - 10 kA
	C3 - 100 A
	D1 - 2.5 kA
Pulse reset time (conductor-conductor)	$\leq 300 \text{ ms}$
Pulse reset time (conductor-ground)	$\leq 30 \text{ ms}$
Pulse reset time (conductor-GND)	$\leq 4000 \text{ ms}$

Connection data

Connection method	Screw connection
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Connection data

Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	8 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

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
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

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Approvals

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Approvals

UL Listed / EAC / CSA / CSAus / cCSAus

Ex Approvals

Approvals submitted

Approval details

UL Listed 

EAC

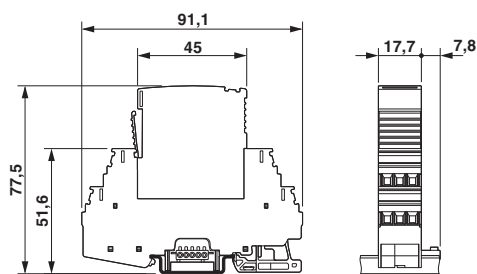
CSA 

CSAus

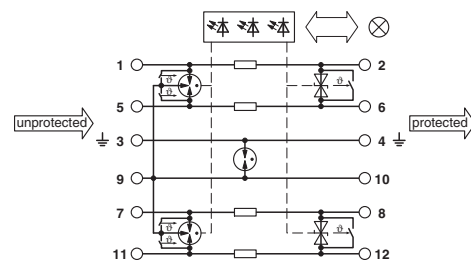
cCSAus

Drawings

Dimensional drawing



Circuit diagram



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