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Surge protection device - PT-IQ-1X2-EX-24DC-UT - 2801512

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Surge protection, consisting of protective plug and base element, with integrated multi-stage status indicator on the module for one 2-wire floating Ex-i signal circuit.

Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 801225

Technical data

Dimensions

Height	91.1 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
Flammability rating according to UL 94	V0
Color	black
Mounting type	DIN rail mounting
Type	DIN rail module, two-section, divisible
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground

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Technical data

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V DC
Maximum continuous voltage U_C	30 V DC
	21 V AC
Nominal current I_N	350 mA
Operating effective current I_C at U_C	≤ 5 µA (per system)
Residual current I_{PE}	≤ 100 nA (per system)
Nominal discharge current I_n (8/20) µs (Core-Core)	10 kA
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 I_{imp}	2 kA
Voltage protection level U_p (core-core)	≤ 60 V (C1 - 1 kV/500 A)
	≤ 110 V (C2 - 10 kV / 5 kA)
	≤ 140 V (C2 - 10 kA)
	≤ 50 V (C3 - 25 A)
	≤ 55 V (C3 - 100 A)
Voltage protection level U_p (core-ground)	≤ 1.3 kV (C2 - 10 kV / 5 kA)
	≤ 1.5 kV (C2 - 10 kA)
	≤ 1.3 kV (C3 - 100 A)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 300 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 1.1 MHz
Capacity (Core-Earth)	typ. 2 nF
Resistance in series	1.2 Ω ±5 %
Surge protection fault message	Optical, multi-stage
Max. required back-up fuse	350 mA (F)
Impulse durability (conductor-conductor)	C1 - 1 kV/500 A
	C2 - 10 kA
	C3 - 100 A
Impulse durability (conductor-ground)	C2 - 10 kA
	D1 - 2 kA
Pulse reset time (conductor-conductor)	≤ 30 ms
Pulse reset time (conductor-ground)	≤ 30 ms

Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks

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Technical data

Connection data

Connection type OUT	Screw terminal blocks
Screw thread	M3
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 min.	24
Conductor cross section AWG max.	12

Connection, equipotential bonding

Connection method	NS 35 DIN rail or connection terminal block

Remote indicator contact

Switching function	Via TBUS

General

Maximum inner capacitance C_i	negligible
Maximum inner inductance L_i	negligible
Max. input current I_i	350 mA
Max. input voltage U_i	30 V DC
Maximum input power Pi	1.2 W
Insulation voltage to ground	> 500 V AC
Standards/specifications	EN 60079-0 2012
	EN 60079-11 2012
	EN 60079-15 2010
	IEC 60079-0 2012
	IEC 60079-11 2012
	IEC 60079-15 2010
Ambient temperature (operation)	-40 °C ... 50 °C (T6)
	-40 °C ... 70 °C (T4)

Conformity / approvals

UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D T5

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

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Classifications

eCl@ss

eCl@ss 8.0	27130807
eCl@ss 9.0	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

Approvals

Approvals

Approvals

UL Listed

Ex Approvals

IECEx / ATEX / UL Listed / cUL Listed / cULus Listed

Approvals submitted

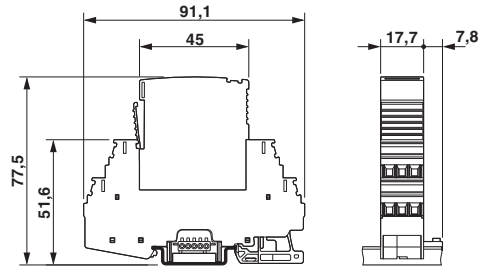
Approval details

UL Listed

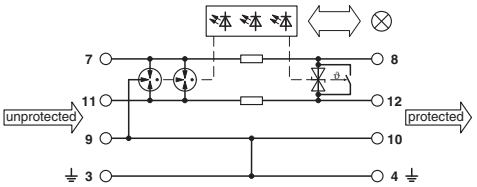
Drawings

Surge protection device - PT-IQ-1X2-EX-24DC-UT - 2801512

Dimensional drawing



Circuit diagram



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Product	Code	Reference	Product link
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