

PT-IQ-1X2+F-24DC-UT

Order No.: 2800977



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



Commercial data	
EAN	 4 046356 665179
Note	Made-to-order
Pack	1
Customs tariff	85363010
Country of Origin	DE

Product notes

WEEE/RoHS-compliant since:
10/05/2011



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Technical data	
General	
Housing material	PA 6.6
Inflammability class according to UL 94	V0
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Mounting type	DIN rail mounting
Design	DIN rail module, two-section, divisible
Degree of protection	IP20
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/ Shield-Earth Ground
Width	17.70 mm
Height	91.10 mm
Pitch unit	1 Div.
Protective circuit	
IEC category	C1
	C2
	C3
	D1
Nominal voltage U_N	24 V
Maximum continuous operating voltage U_C	30 V DC
	21 V AC
Nominal current I_N	1000 mA (Up to 45°C)
Operating effective current I_C at U_C	≤ 2 mA (per system)
Ground conductor current I_{PE}	≤ 1 μ A
Nominal discharge surge current I_n (8/20) μ s (Core-Core)	10 kA
Nominal discharge surge current I_n (8/20) μ s (Core-Earth)	10 kA
Lightning test current (10/350) μ s, peak value I_{imp}	2.5 kA
Protection level U_P (Core-Core)	≤ 80 V (C1 - 1 kV/500 A)
	≤ 130 V (C2 - 10 kV / 5 kA)
	≤ 140 V (C2 - 10 kA)
	≤ 55 V (C3 - 25 A)
	≤ 60 V (C3 - 100 A)
Protection level U_P (Core-Earth)	≤ 900 V (C1 - 1 kV/500 A)
	≤ 1300 V (C2 - 10 kV / 5 kA)
	≤ 1200 V (C2 - 10 kA)
	≤ 1000 V (C3 - 25 A)
	≤ 1300 V (C3 - 100 A)

Protection level U_p (Core-GND)	≤ 600 V (C1 - 1 kV/500 A)
	≤ 750 V (C2 - 10 kV / 5 kA)
	≤ 800 V (C2 - 10 kA)
	≤ 700 V (C3 - 25 A)
	≤ 800 V (C3 - 100 A)
Protection level U_p static (core-core)	≤ 64 V (C1 - 1 kV/500 A)
Response time t_A (Core-Core)	≤ 1 ns
Response time t_A (Core-Earth)	≤ 100 ns
	≤ 100 ns
Input attenuation a_E , sym.	Typ. 0.3 dB (≤ 270 kHz)
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	Typ. 1.1 MHz
Capacity (Core-Earth)	2 nF
Resistance in series	1.2 Ω $\pm 5\%$
Message: Surge protection fault	Optical, multi-stage
Max. required back-up fuse	1 A (FF)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (1 kV/500 A)
	C2 (10 kV/5 kA)
	C2 (10 kA)
	C3 (25 A)
	C3 (50 A)
	C3 (100 A)
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)
	C3 (50 A)
	C3 (100 A)
	D1 (2.5 kA)

Surge carrying capacity in acc. with IEC 61643-21 (Core-GND)	C1 (1 kV/500 A)
	C2 (10 kV/5 kA)
	C2 (10 kA)
	C3 (25 A)
	C3 (50 A)
	C3 (100 A)
Pulse reset time t_r in acc. with IEC 61643-21 (Core-Core)	≤ 4000 ms
Pulse reset time t_r in acc. with IEC 61643-21 (Core-Earth)	≤ 30 ms
Pulse reset time t_r in acc. with IEC 61643-21 (Core-GND)	≤ 2600 ms
Overload failure mode as per IEC 61643-21 (plug)	Mode 2
Overload failure mode as per IEC 61643-21 (GND-Ground base element)	Mode 2

Connection data

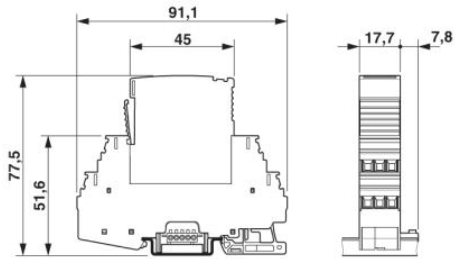
Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

Connection, equipotential bonding

Connection method	NS 35 DIN rail or connection terminal block
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Drawings

Dimensioned drawing



Circuit diagram

