


PT-IQ-1X2-12DC-UT

Order No.: 2800793



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.



Commercial data	
EAN	 4 046356 645102
Note	Made-to-order
Pack	1
Customs tariff	85363010
Country of Origin	DE

Product notes

WEEE/RoHS-compliant since:
13/01/2011



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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	12 V DC
Maximum continuous operating voltage U_C	15 V DC
	10 V AC
Nominal current I_N	1000 mA (Up to 45°C)
Operating effective current I_C at U_C	≤ 1 mA (per system)
Ground conductor current I_{PE}	≤ 2 μ A (per system)
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)	≤ 65 V (C1 - 1 kV/500 A)
	≤ 95 V (C2 - 10 kV / 5 kA)
	≤ 110 V (C2 - 10 kA)
	≤ 35 V (C3 - 25 A)
	≤ 40 V (C3 - 50 A)
Protection level U_P (Core-Earth)	≤ 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)	≤ 41 V (C1 - 1 kV/500 A)
Response time t_A (Core-Core)	≤ 1 ns

Response time t_A (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	Typ. 0.3 dB (≤ 95 kHz)
Cut-off frequency f_g (3 dB), sym. in 150 Ohm system	Typ. 600 kHz
Capacity (Core-Earth)	4 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)
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)
Pulse reset time t_r in acc. with IEC 61643-21 (Core-Core)	≤ 25 ms
	≤ 50 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 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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Accessories

Item	Designation	Description
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Marking

0811228	X-PEN 0,35	Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm
0814717	ZBF 15:SO/CMS	Zack Marker strip, flat, white
0808671	ZBF 5,LGS:FORTL.ZAHLEN	Zack Marker strip, flat, Strip, white, Labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into flat marker groove, For terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm
0810821	ZBF 5,LGS:GERADE ZAHLEN	Zack Marker strip, flat, Strip, white, Labeled, Printed horizontally: Consecutive numbers 2 - 20, 22 - 40, etc. up to 82 - 100, Mounting type: Snap into flat marker groove, For terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm
0810863	ZBF 5,LGS:UNGERADE ZAHLEN	Zack Marker strip, flat, Strip, white, Labeled, Printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, Mounting type: Snap into flat marker groove, For terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm
0808697	ZBF 5,QR:FORTL.ZAHLEN	Zack Marker strip, flat, Strip, white, Labeled, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, For terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm
0808668	ZBF 5/WH-100:UNBEDRUCKT	Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm
0808707	ZBF 5:SO/CMS	Zack Marker strip, flat, white, For terminal block width: 5 mm
0808642	ZBF 5:UNBEDRUCKT	Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 5 mm, Lettering field: 5.1 x 5.2 mm
0800763	ZBN 18:SO/CMS	Zack marker strip, white, For terminal block width: 18 mm
2809128	ZBN 18:UNBEDRUCKT	Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

Additional products

Item	Designation	Description
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Assembly

2839295	SSA 3-6	shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black
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