

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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The figure shows the PT-IQ-1x2-24DC-PT version

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.





### Key commercial data

Packing unit	1 pc
Custom tariff number	85363030
Country of origin	Germany

#### Technical data

#### **Dimensions**

Height	109.3 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	V0
Color	black
Mounting type	DIN rail mounting
Туре	DIN rail module, two-section, divisible



## Technical data

#### General

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 <sub>N</sub>	12 V DC
Maximum continuous operating voltage U <sub>C</sub>	15 V DC
	10 V AC
Nominal current I <sub>N</sub>	1000 mA (up to 40 °C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 1 mA (per system)
Residual current I <sub>PE</sub>	≤ 1 µA
Nominal discharge current I <sub>n</sub> (8/20) µs (Core-Core)	10 kA
Nominal discharge current I <sub>n</sub> (8/20) µs (Core-Earth)	10 kA
Impulse discharge current (10/350)#µs, peak value I <sub>imp</sub>	2.5 kA
Voltage protection level U <sub>P</sub> (Core-Core)	≤ 65 V (C1 - 1 kV/500 A)
	≤ 95 V (C2 - 10 kV / 5 kA)
	≤ 35 V (C3 - 25 A)
Voltage protection level U <sub>P</sub> (Core-Earth)	≤ 900 V (C1 - 1 kV/500 A)
	≤ 1300 V (C2 - 10 kV / 5 kA)
	≤ 1000 V (C3 - 25 A)
Voltage protection level U <sub>P</sub> (Core-GND)	≤ 600 V (C1 - 1 kV/500 A)
	≤ 750 V (C2 - 10 kV / 5 kA)
	≤ 700 V (C3 - 25 A)
Voltage protection level U <sub>P</sub> static (core-core)	≤ 45 V (C1 - 1 kV/500 A)
Voltage protection level U <sub>P</sub> static (core-ground)	≤ 130 V (C2 - 10 kV / 5 kA)
	≤ 60 V (C3 - 25 A)
Voltage protection level U <sub>P</sub> static (core-GND)	≤ 60 V (C2 - 10 kV / 5 kA)
	≤ 40 V (C3 - 25 A)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
	≤ 100 ns
Input attenuation aE, sym.	typ. 0.3 dB ( $\leq$ 95 kHz/150 $\Omega$ )
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 600 kHz
Capacity (Core-Core)	typ. 4 nF



## Technical data

#### Protective circuit

Resistance in series	1.2 Ω ±5 % (per path)
Surge protection fault message	Optical, multi-stage
Max. required back-up fuse	1 A (FF)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C3 - 25 A
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 - 10 kA
	D1 - 2,5 kA
	C3 - 25 A
Surge carrying capacity in acc. with IEC 61643-21 (Core-GND)	C2 - 10 kA
	C3 - 25 A
Pulse reset time tr in acc. with IEC 61643-21 (Core-Core)	≤ 25 ms
Pulse reset time tr in acc. with IEC 61643-21 (Core-Earth)	≤ 50 ms
Pulse reset time tr in acc. with IEC 61643-21 (Core-GND)	≤ 50 ms
Overload failure mode as per IEC 61643-21 (plug)	2
Overload failure mode as per IEC 61643-21 (GND-Ground base element)	2

#### Connection data

Connection method	Push-in connection
Connection type IN	Push-in connection
Connection type OUT	Push-in connection
Stripping length	10 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm²
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

### 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



## Classifications

### eCl@ss

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

## Approvals

Approvals
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Approvals

**UL Listed** 

Ex Approvals

Approvals submitted

Approval details



**Drawings** 

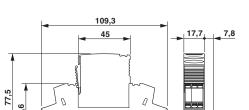


Diagram

500

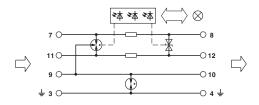
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Dimensioned drawing

#### Circuit diagram



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