

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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Rail-mountable surge arrester for higher signal voltages. Protective circuit free of leakage current for two floating signals.

Nominal voltage: 230 V AC

Illustration shows variant PT 2X1-VF-120AC

Product Features

- ✓ Plugs can be checked with CHECKMASTER
- Maximum ease of maintenance thanks to the two-piece design
- ☑ Base element remains an integral part of the installation
- ☑ Protective devices for use in telecommunications and signaling networks according to IEC 61643-21
- ☑ Impedance-neutral disconnection of plug for test and maintenance purposes







Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	72.0 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	90 mm
Width	17.7 mm
Depth	65.5 mm
Horizontal pitch	1 Div.
Complete module height	90 mm



Technical data

Dimensions

Complete module width	17.7 mm
Complete module depth	65.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C 80 °C
Degree of protection	IP20

General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black
Mounting type	DIN rail: 35 mm
Туре	DIN rail module, two-section, divisible
Number of positions	2
Direction of action	Line-Line & Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U _N	230 V AC
	250 V AC
Maximum continuous voltage U _C (wire-ground)	250 V AC
Nominal current I _N	6 A
Operating effective current I _C at U _C	≤ 2 μA
Residual current I _{PE}	\leq 2 μ A (at U _N)
Nominal discharge current I _n (8/20) µs	3 kA
Nominal discharge current I _n (8/20) µs (Core-Earth)	3 kA
Total surge current (8/20) μs	8 kA
Total surge current (10/350) µs	1 kA
Max. discharge current I _{max} (8/20) µs	8 kA
Max. discharge current I _{max} (8/20) µs maximum (Core-Earth)	8 kA
Nominal pulse current lan (10/1000) µs (Core-Earth)	100 A
Impulse discharge current (10/350)#µs, peak value l _{imp}	500 A
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 1.4 kV
Residual voltage at I _n , (conductor-conductor)	≤ 2 kV
Residual voltage at I _n , (conductor-ground)	≤ 1 kV



Technical data

Protective circuit

Residual voltage with Ian (10/1000)µs (conductor-conductor)	≤ 1.4 kV
Residual voltage with lan (10/1000)µs (conductor-ground)	≤ 700 V
Energy absorption	150 J
Voltage protection level U _P (Core-Core)	≤ 2.5 kV (C2 (4 kV/2 kA))
	≤ 1.8 kV (C3 - 100 A)
	≤ 2.6 kV (D1 - 500 A)
Voltage protection level U _P (Core-Earth)	≤ 1.1 kV (C1 - 500 A)
	≤ 1.5 kV (C2 (4 kV/2 kA))
	≤ 1.6 kV (C3 - 100 A)
	≤ 1.8 kV (D1 - 500 A)
Response time t _A	≤ 100 ns
Capacity (Core-Core)	typ. 4.5 pF
Capacity (Core-Earth)	typ. 9 pF
Resistance in series	0 Ω
Surge protection fault message	None
Max. required back-up fuse	6 A (gL / gG)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (4 kV / 2 kA)
	C3 (100 A)
	D1 (500 A)

Connection data

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section solid min.	0.2 mm ²
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	Screw connection
Tightening torque, min	0.8 Nm

Standards and Regulations



Technical data

Standards and Regulations

Standards/regulations	DIN EN 61643-21

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 2.0	EC000943
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

GOST

Ex Approvals

Approvals submitted

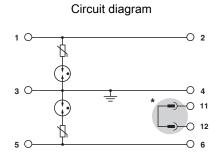


Approvals

Approval details

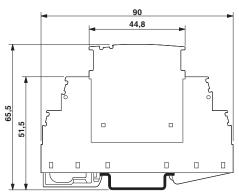


Drawings



^{*} Circuit only closed when plug is inserted.

Dimensioned drawing



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