

Surge protection plug - PT 2X1-VF-230AC-ST - 2921365

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Protective connector with protective circuit free of leakage current for two floating signals. Connection in series, consisting of varistor and gas-filled surge arrester between signal wires and ground.

Illustration shows variant PT 2X1-VF-120AC-ST

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
- ✓ Consistent plug-in signal circuit protection
- ✓ 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
Minimum order quantity	10 pc
Weight per Piece (excluding packing)	1.0 GRM
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	45 mm
Width	17.7 mm
Depth	52 mm
Horizontal pitch	1 Div.

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Technical data

Dimensions

Complete module height	90 mm
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	On base element
Type	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
Maximum continuous operating voltage U_C	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	$\leq 2 \mu A$
Residual current I_{PE}	$\leq 2 \mu A$ (at U_N)
Nominal discharge current I_n (8/20) μs	3 kA
Max. discharge current I_{max} (8/20) μs	8 kA
Nominal pulse current I_{an} (10/1000) μs (Core-Earth)	100 A
Impulse discharge current (10/350) μs , peak value I_{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
Residual voltage with I_{an} (10/1000) μs (conductor-conductor)	≤ 1.4 kV
Residual voltage with I_{an} (10/1000) μs (conductor-ground)	≤ 700 V
Energy absorption	150 J

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Technical data

Protective circuit

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. 1.5 pF
Capacity (Core-Earth)	typ. 3 pF
Resistance in series	0 Ω
Max. required back-up fuse	6 A (gL / gG)
Surge current resistance (conductor-ground)	C2 (4 kV / 2 kA)
	C3 - 100 A
	D1 (500 A)

Connection data

Connection method	Screw connection (in connection with the base element)
Connection type IN	PLUGTRAB plug-in system
Connection type OUT	PLUGTRAB plug-in system

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

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Classifications

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

Approvals

Approvals

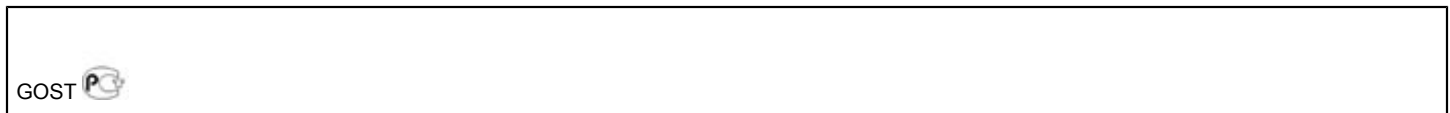
Approvals

GOST

Ex Approvals

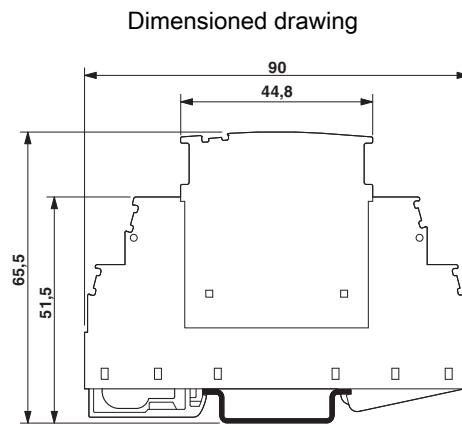
Approvals submitted

Approval details



Drawings

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The figure shows the complete module consisting of a base element and connector