

## Surge protection plug - PT 2X1-VF-120AC-ST - 2856799

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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.

### 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
- ✓ Consistent plug-in signal circuit protection
- ✓ Impedance-neutral disconnection of plug for test and maintenance purposes



### Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	29.0 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.
Complete module height	90 mm
Complete module width	17.7 mm
Complete module depth	65.5 mm

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## Technical data

### 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
Standards for air and creepage distances	IEC 60664-1
	DIN VDE 0110-1
Surge voltage category	III
Pollution degree	2
Mounting type	On base element
Type	DIN rail module, two-section, divisible
Number of positions	2
Direction of action	Line-Line & Line-Earth Ground
Arrester can be tested with CHECKMASTER from software version:	SW Version 2.13 or later

### Protective circuit

IEC test classification	C1
	C2
	C3
Nominal voltage $U_N$	120 V AC
Maximum continuous operating voltage $U_C$	175 V AC
Nominal current $I_N$	6 A (PT BE/FM)
Operating effective current $I_C$ at $U_C$	$\leq 2 \mu A$
Residual current $I_{PE}$	$\leq 4 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$	3 kA
Max. discharge current $I_{max}$ (8/20) $\mu s$	8 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (Core-Earth)	40 A
Impulse discharge current (10/350) $\mu s$ , peak value $I_{imp}$	300 A
Output voltage limitation at 1 kV/ $\mu s$ (Core-Earth) static	$\leq 800 V$
Residual voltage at $I_n$ , (conductor-ground)	$\leq 600 V$
Residual voltage with $I_{an}$ (10/1000) $\mu s$ (conductor-ground)	$\leq 360 V$
Energy absorption	85 J
Voltage protection level $U_p$	$\leq 1 kV$ (C2 - 2 kA)
Voltage protection level $U_p$ (Core-Earth)	$\leq 900 V$ (C1 - 500 A)
	$\leq 950 V$ (C2 - 1 kA)
	$\leq 1 kV$ (C3 - 25 A)

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#### Protective circuit

	$\leq 1.1 \text{ kV (I}_{\text{imp}}=300 \text{ A)}$
Response time $t_A$	$\leq 100 \text{ ns}$
Capacity	typ. 3 pF
Resistance in series	0 $\Omega$
Max. required back-up fuse	6 A (PT BE/FM)
Surge current resistance (conductor-ground)	C1 - 1 kV/500 A
	C2 (4 kV / 2 kA)
	C3 (25 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

#### Standards and Regulations

Standards/regulations	EN 61643-21
	IEC 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

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## Classifications

### UNSPSC

UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

### Approvals

Approvals

GOST

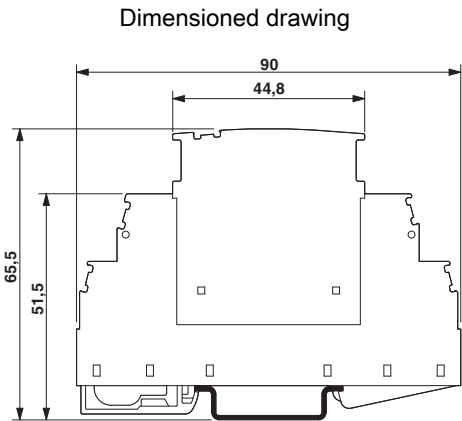
Ex Approvals

Approvals submitted

### Approval details

GOST 

## Drawings



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



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