

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.

Your advantages

- ✓ 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	10 pc
GTIN	 4 046356 286572
GTIN	4046356286572

Technical data

Dimensions

Height	44.8 mm
Width	17.5 mm
Depth	51.7 mm
Horizontal pitch	1 Div.
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
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Technical data

Ambient conditions

Degree of protection	IP20
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General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	black
Mounting type	on base element
Type	Male
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 voltage U_C	250 V AC
Rated current	6 A
Operating effective current I_C at U_C	$\leq 2 \mu\text{A}$
Residual current I_{PE}	$\leq 2 \mu\text{A}$ (at U_N)
Nominal discharge current I_n (8/20) μs	3 kA
Pulse discharge current I_{imp} (10/350) μs	500 A
Total discharge current I_{total} (8/20) μs	8 kA
Total discharge current I_{total} (10/350) μs	1 kA
Max. discharge current I_{max} (8/20) μs	8 kA
Nominal pulse current I_{an} (10/1000) μs (line-earth)	100 A
Output voltage limitation at 1 kV/ μs (line-earth) static	$\leq 1.4 \text{ kV}$
Residual voltage at I_n (line-line)	$\leq 2 \text{ kV}$
Residual voltage at I_n (line-earth)	$\leq 1 \text{ kV}$
Residual voltage with I_{an} (10/1000) μs (line-line)	$\leq 1.4 \text{ kV}$
Residual voltage with I_{an} (10/1000) μs (line-earth)	$\leq 700 \text{ V}$
Energy absorption	150 J
Voltage protection level U_p (line-line)	$\leq 2.5 \text{ kV}$ (C2 - 4 kV / 2 kA)
	$\leq 1.8 \text{ kV}$ (C3 - 100 A)
	$\leq 2.6 \text{ kV}$ (D1 - 500 A)
Voltage protection level U_p (line-earth)	$\leq 1.1 \text{ kV}$ (C1 - 500 A)
	$\leq 1.5 \text{ kV}$ (C2 - 4 kV / 2 kA)
	$\leq 1.6 \text{ kV}$ (C3 - 100 A)
	$\leq 1.8 \text{ kV}$ (D1 - 500 A)
Response time t_A	$\leq 100 \text{ ns}$

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Protective circuit

Capacity (line-line)	typ. 1.5 pF
Capacity (line-earth)	typ. 3 pF
Resistance in series	0 Ω
Surge protection fault message	none
Max. required back-up fuse	6 A (gL / gG)
Impulse durability (line-earth)	C2 - 4 kV/2 kA
	C3 - 100 A
	D1 - 500 A

Connection data

Connection method	Screw connection (in connection with the base element)
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Remote indication contact

Switching function	N/C contact
Maximum operating voltage U_{max} AC	250 V AC
Max. operating current I_{max}	1 A

Standards and Regulations

Standards/specifications	EN 61643-21 2002
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Environmental Product Compliance

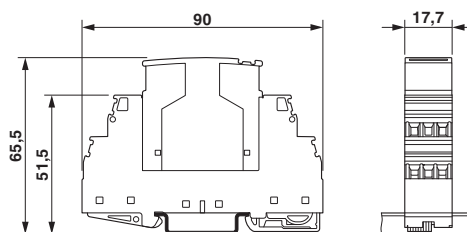
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Pictogram



Dimensional drawing



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

Approvals

Approvals

Approvals

EAC

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Approvals

Ex Approvals

Approval details

EAC



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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>