

Surge protection plug - PT 4X1- 5DC-ST - 2838306

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Protective plug PT with protective circuit for 4 conductors of signal circuits grounded on one side. Nominal voltage: 5 V DC

Why buy this product

- ✓ Plugs can be checked with CHECKMASTER
- ✓ Installed in conjunction with the PT 4x1...-BE base element
- ✓ 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
- ✓ Protection for four conductors with common reference potential
- ✓ Impedance-neutral disconnection of plug for test and maintenance purposes



Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 182694
GTIN	4017918182694

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

Ambient conditions

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Technical data

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP20

General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	jet black RAL 9005
Standards for clearances and creepage distances	VDE 0110-1
	IEC 60664-1
Mounting type	on base element
Type	Male
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Nominal voltage U_N	5 V DC
Maximum continuous voltage U_C	6 V DC
	4 V AC
Rated current	300 mA (45°C)
Operating effective current I_C at U_C	≤ 1 mA
Residual current I_{PE}	≤ 1 μ A (with PT 4X1+F-BE)
	≤ 4 mA (Directly grounded)
Nominal discharge current I_n (8/20) μ s (line-earth)	10 kA
Pulse discharge current I_{imp} (10/350) μ s	2.5 kA (per path)
Total discharge current I_{total} (8/20) μ s	20 kA
Max. discharge current I_{max} (8/20) μ s maximum (line-earth)	10 kA
Nominal pulse current I_{an} (10/1000) μ s (line-earth)	125 A
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 14 V
Output voltage limitation at 1 kV/ μ s (line-earth) static	≤ 10 V
Residual voltage at I_n (line-earth)	≤ 10 V
Voltage protection level U_p (line-earth)	≤ 50 V (C2 - 10 kV / 5 kA)
Response time t_A (line-earth)	≤ 1 ns
Input attenuation aE, asym.	0.5 dB (≤ 200 kHz)

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Protective circuit

Cut-off frequency f_g (3 dB), asym. (PE) in 50 Ohm system	typ. 1 MHz
Capacity (line-earth)	6 nF
Resistance in series	4.7 Ω
Surge protection fault message	none
Max. required back-up fuse	315 mA (T)
Impulse durability (line-earth)	C2 - 10 kV/5 kA
	D1 - 2.5 kA

Connection data

Connection method	Screw connection (in connection with the base element)
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section solid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

Standards and Regulations

Standards/regulations	IEC 61643-21
Standards/specifications	IEC 61643-21 2000

Environmental Product Compliance

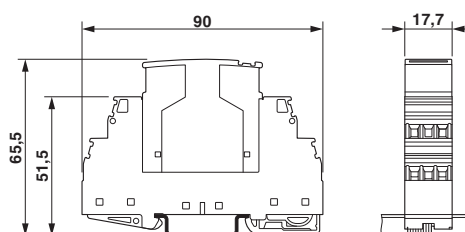
REACH SVHC	Lead 7439-92-1
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Drawings

Pictogram

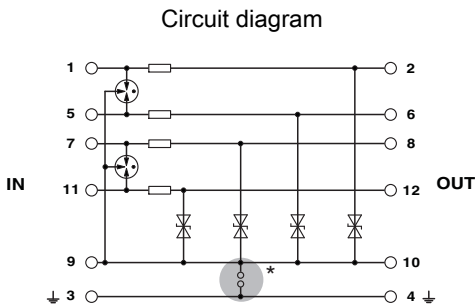


Dimensional drawing



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

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Approvals

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UL Listed / EAC / EAC

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168
Nominal voltage UN		5 V	
Nominal current IN		0.3 A	

EAC		EAC-Zulassung
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EAC		RU C- DE.A*30.B01561
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