

PT 2X1VA-120AC-ST - Surge protection plug



2839185

<https://www.phoenixcontact.com/cn/products/2839185>

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Protective plug PT with protective circuit for higher signal voltages, 2-channel, visual error warning. Nominal voltage: 120 V AC

Your advantages

- Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- Maximum ease of maintenance, thanks to the 2-piece design
- Easy selection for all possible demands in MCR applications with a complete product portfolio
- The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

Commercial data

Item number	2839185
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL2111
Product key	CL2111
Catalog page	Page 138 (C-4-2019)
GTIN	4017918182847
Weight per piece (including packing)	27.48 g
Weight per piece (excluding packing)	23.623 g
Country of origin	CN

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Technical data

Notes

General

Note	Technical data is valid in association with the following specified base elements:
	PT -BE/ FM 2839282

Product properties

IEC test classification	C1
	C2
	C3
	D1
Type	Male
Product type	Surge protection for MCR technology
Product family	PLUGTRAB PT
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal voltage U_N	120 V AC (50/60 Hz)
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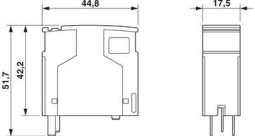
Indicator/remote signaling

Switching function	N/C contact
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Connection data

Connection method	Screw connection (in connection with the base element)
Screw thread	M3
Tightening torque	0.5 Nm
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 12

Dimensions

Dimensional drawing	
Width	17.5 mm

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Height	44.8 mm
Depth	51.7 mm
Horizontal pitch	1 Div.
Complete module width	17.7 mm
Complete module height	90 mm
Complete module depth	65.5 mm

Material specifications

Color	black (RAL 9005)
	Copper
Flammability rating according to UL 94	V-0
Housing material	PA 6.6

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Line-Line & Line-Earth Ground
Maximum continuous voltage U_C	150 V DC
	150 V AC (50/60 Hz)
Rated current	26 A AC (30 °C)
	1 A DC (82 °C)
Operating effective current I_C at U_C	≤ 1.5 mA AC
	≤ 2 mA DC
Residual current I_{PE}	≤ 3 mA AC
	≤ 4 mA DC
Nominal discharge current I_n (8/20) μ s (line-ground)	2.5 kA
Pulse discharge current I_{imp} (10/350) μ s	500 A
Total discharge current I_{total} (8/20) μ s	5 kA
Output voltage limitation at 1 kV/ μ s (line-earth) spike	≤ 380 V
Output voltage limitation at 1 kV/ μ s (line-earth) static	≤ 380 V
Voltage protection level U_p (line-earth)	≤ 450 V (C1 - 1.4 kV / 0.7 kA)
	≤ 550 V (C2 - 5 kV/2,5 kA)
	≤ 400 V (C3 - 100 A)
Response time t_A (line-earth)	≤ 25 ns
Input attenuation aE, asym.	typ. 0.3 dB (≤ 300 kHz / 150 Ω)
Cut-off frequency f_g (3 dB), asym. (signal ground) in 150 Ω system	typ. 1 MHz
Capacity (Core-Earth)	typ. 2.5 nF
Surge protection fault message	optical
Max. required back-up fuse	25 A AC (gL/gG)
	1 A DC (T)
	C1 - 1,4 kV / 0,7 kA

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Impulse durability (line-earth)	C2 - 5 kV / 2.5 kA
	C3 - 100 A
	D1 - 500 A

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m (amsl)

Standards and regulations

Standards/specifications	IEC 61643
Note	2000 + corrigendum 2001 + A1:2008, modified + A2:2012
Standards/specifications	EN 61643-21
Note	2001 + A1:2009 + A2:2013

Mounting

Mounting type	on base element
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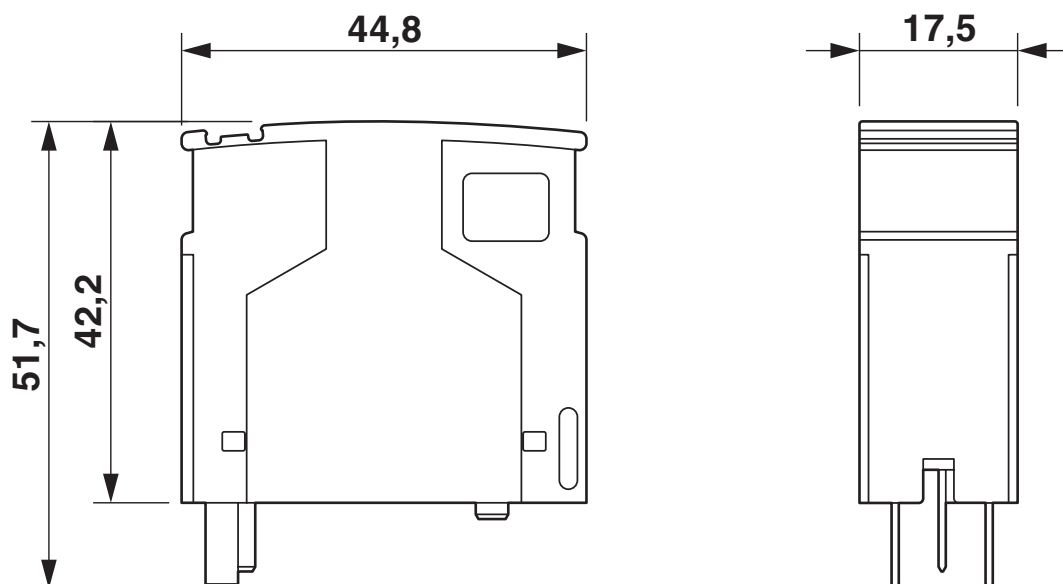
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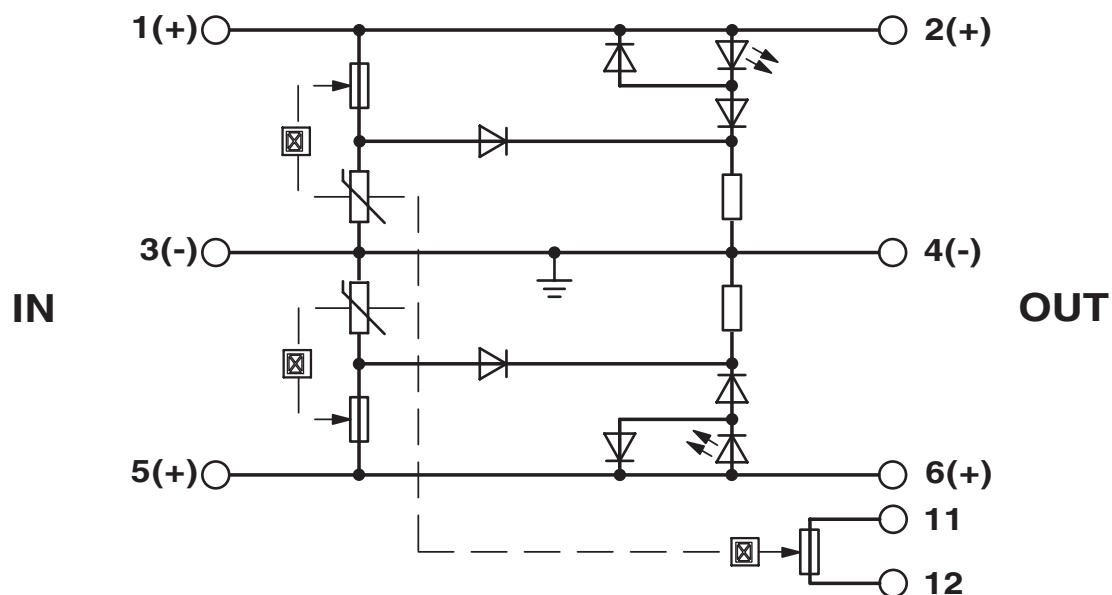


Drawings

Dimensional drawing



Circuit diagram



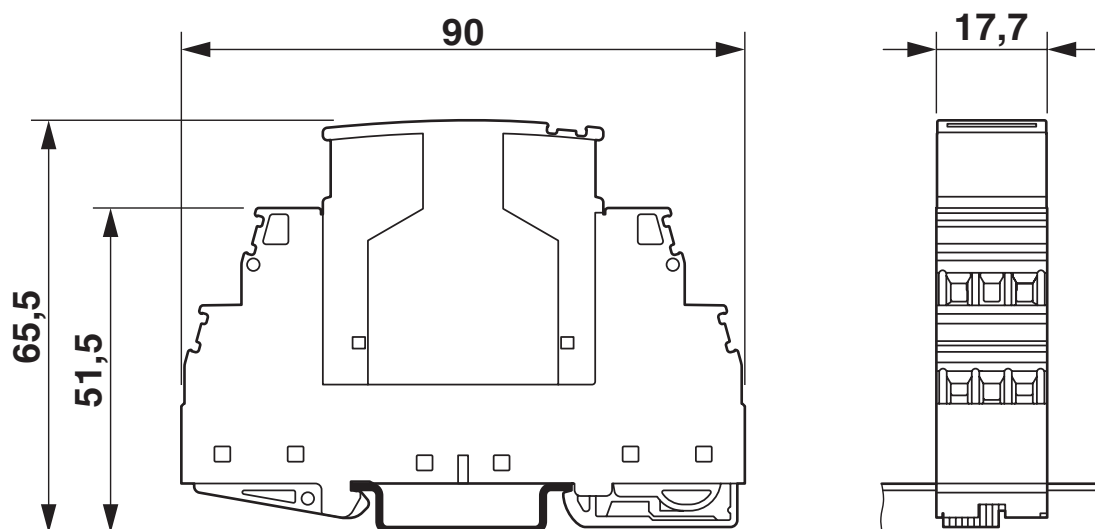
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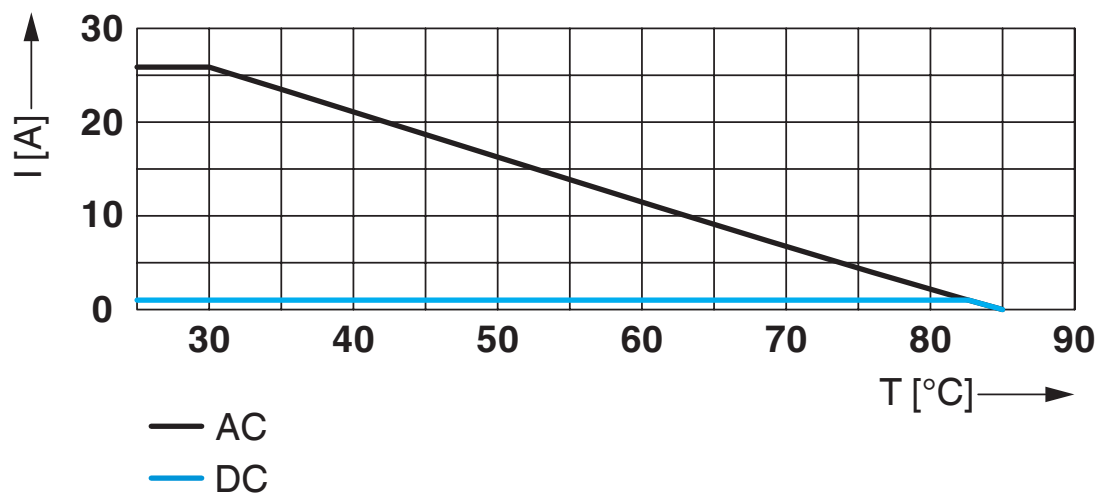


Dimensional drawing



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

Diagram



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Approvals

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EAC

Approval ID: EAC-Zulassung



EAC

Approval ID: RU C-DE.*09.B.00169



UL Listed

Approval ID: FILE E 138168

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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171501

ETIM

ETIM 9.0	EC001625
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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