

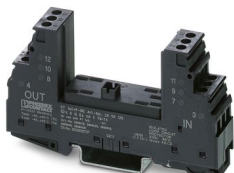
PT 1X2+F-BE - Surge protection base-element



2856126

<https://www.phoenixcontact.com/gb/products/2856126>

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Base element for protective plug PT with protective circuit for a 2-core floating signal circuit. Integrated gas arrester as coarse protection between GND and PE. Mounting on NS 35/7.5 und NS 35/15, housing width: 17.5 mm.

Your advantages

- 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	2856126
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL2111
Product key	CL2111
GTIN	4017918599270
Weight per piece (including packing)	55.08 g
Weight per piece (excluding packing)	46.381 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Notes

Notes on operation	In the base elements PT...+F-BE , the connections 9/10 (GND) are linked to the mounting foot via a gas-filled surge arrester.
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Product properties

Product type	Base element
Product family	PLUGTRAB PT
Type	Base element, DIN rail mounting
Number of positions	2
Surge protection fault message	none
Wire pairs per module	1

Insulation characteristics

Overvoltage category	III
Pollution degree	2

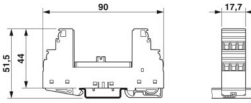
Electrical properties

Nominal voltage U_N	48 V DC
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Connection data

Connection method	Screw connection
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	17.7 mm
Height	90 mm
Depth	51.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

Material specifications

Color	black (RAL 9005) copper color
Flammability rating according to UL 94	V-0

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Housing material	PA 6.6
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Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Signal Ground/Shield-Earth Ground
Maximum continuous operating voltage U_C	53 V DC
	37 V AC
Rated current	450 mA (45 °C)
Resistance per path	2.2 $\Omega \pm 10\%$
Surge protection fault message	none
Max. required back-up fuse	500 mA (T)

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)

Approvals

Conformity/Approvals

ATEX	II 3 G Ex nA II T6/T4 X
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Standards and regulations

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

Mounting

Mounting type	DIN rail: 35 mm
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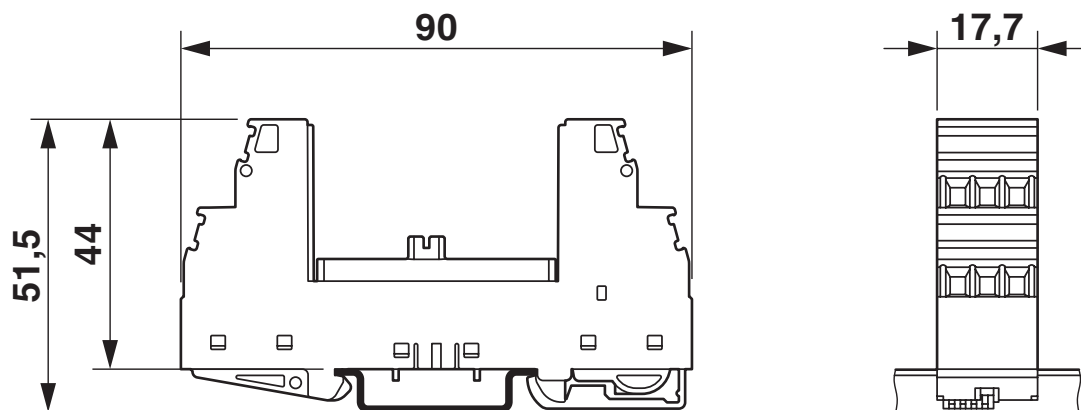
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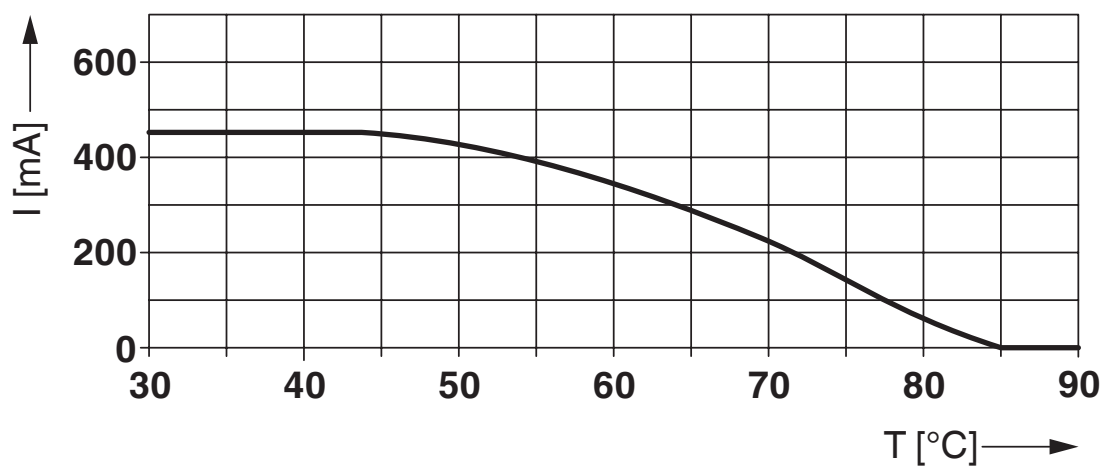


Drawings

Dimensional drawing



Diagram



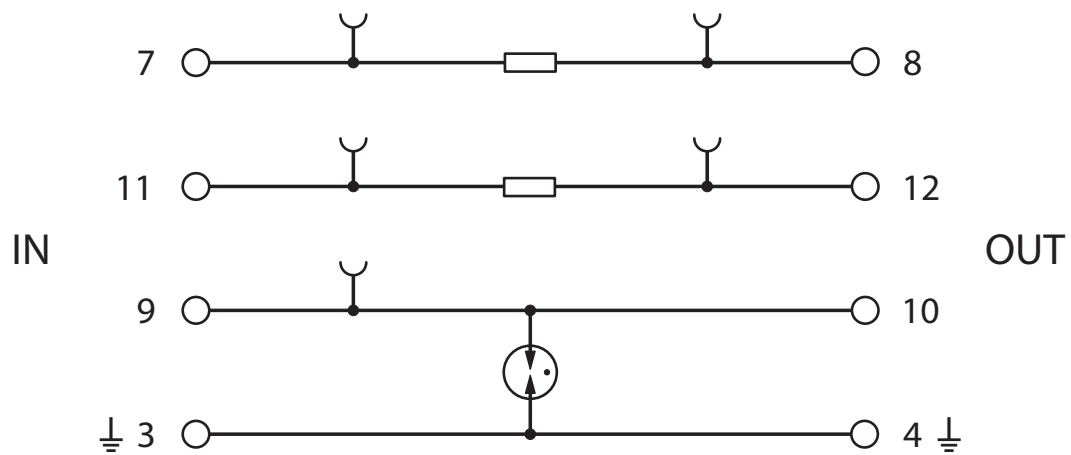
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Circuit diagram



PT 1X2+F-BE - Surge protection base-element



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Approvals

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DNV GL

Approval ID: TAE00001N6



UL Listed

Approval ID: FILE E 138168



CCC

Approval ID: 2020322316002243



cUL Listed

Approval ID: FILE E 333250



UL Listed

Approval ID: FILE E 333250



CCC

Approval ID: 2020322316003150



ATEX

Approval ID: DEKRA 22ATEX0044 X



IECEx

Approval ID: IECEx DEK 22.0031X



UKCA-EX

Approval ID: DEKRA 22UKEX6005X



NEPSI-EX

Approval ID: GYJ20.1180X

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Classifications

ECLASS

ECLASS-13.0	27171592
ECLASS-15.0	27171592

ETIM

ETIM 9.0	EC002497
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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