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Protective plug PT with surge voltage equipment protection for power supply units, visual error display, nominal voltage: 24 V and a 2-core floating signal circuit, nominal voltage: 24 V.

#### 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
- ☑ Impedance-neutral disconnection of plug for test and maintenance purposes



### **Key Commercial Data**

Packing unit	1 pc
Minimum order quantity	10 pc
GTIN	4 017918 819323
GTIN	4017918819323
Weight per Piece (excluding packing)	29.650 g
Custom tariff number	85363010
Country of origin	Germany

#### Technical data

#### **Dimensions**

Horizontal pitch	1 Div.
Complete module height	90 mm
Complete module width	17.7 mm
Complete module depth	65.5 mm



## Technical data

#### Ambient conditions

Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

#### General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	jet black RAL 9005
Mounting type	on base element
Туре	Male
Current supply arrester can be tested with CHECKMASTER starting with software version:	From SW rev. 1.00
Direction of action	L-N-PE & Signal Line-Signal Line-Earth Ground

#### Protective circuit, power supply

EN type	Т3
Arrester rated voltage U <sub>C</sub>	34 V AC
	44 V DC
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Rated load current I <sub>L</sub>	6 A (30 °C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 1.5 mA
Residual current I <sub>PE</sub>	≤ 5 μA
Nominal discharge current I <sub>n</sub> (8/20) μs	700 A
Max. discharge current I <sub>max</sub> (8/20) μs	2 kA
Combination wave U <sub>OC</sub>	2 kV
Voltage protection level U <sub>p</sub> (L-N)	≤ 0.18 kV
Voltage protection level U <sub>p</sub> (L-PE)	≤ 0.55 kV
Response time (L-N)	≤ 25 ns
Response time (L-PE)	≤ 100 ns
Surge protection fault message	optical

### Connection (protective circuit, power supply)

Connection method	Screw connection (in connection with the base element)
Connection method IN	PLUGTRAB plug-in system
Connection method OUT	PLUGTRAB plug-in system
Screw thread	M3
Stripping length	8 mm

### Protective circuit, information technology

Nominal voltage U <sub>N</sub>	24 V AC



## Technical data

## Protective circuit, information technology

Arrester rated voltage U <sub>C</sub>	40 V DC
	28 V AC
Rated current	450 mA (45 °C)
Operating effective current $I_{\text{C}}$ at $U_{\text{C}}$	≤ 5 µA
Residual current I <sub>PE</sub>	≤ 2 µA
Nominal discharge current I <sub>n</sub> (8/20) µs (line-line)	10 kA
Nominal discharge current I <sub>n</sub> (8/20) µs (line-earth)	10 kA
Max. discharge current I <sub>max</sub> (8/20) μs maximum (line-line)	10 kA
Max. discharge current I <sub>max</sub> (8/20) µs maximum (line-earth)	20 kA (in total)
Voltage protection level U <sub>p</sub> (line-line)	≤ 80 V (C2 - 10 kV / 5 kA)
Voltage protection level U <sub>p</sub> (line-earth)	≤ 450 V (C2 - 10 kV / 5 kA)
Response time t <sub>A</sub> (line-line)	≤ 1 ns
Response time t <sub>A</sub> (line-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. $0.5~\text{dB}~(\leq 1.5~\text{MHz}~/~50~\Omega)$
	typ. 0.2 dB ( $\leq$ 500 kHz / 150 $\Omega$ )
	typ. 0.1 dB ( $\leq$ 100 kHz / 600 $\Omega$ )
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 8 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 3 MHz
Cut-off frequency fg (3 dB), sym. in 600 Ohm system	typ. 800 kHz
Capacity (line-line)	typ. 1.1 nF
Capacity (line-earth)	typ. 4 pF
Resistance per path	2.2 Ω ±10 %
Surge protection fault message	Optical, remote indicator contact
Output voltage limitation at 1 kV/µs (wire-wire)	≤ 55 V
Output voltage limitation at 1 kV/µs (wire-earth)	≤ 25 V
Residual voltage at I <sub>n</sub> (line-line)	≤ 55 V
Residual voltage with lan (10/1000) µs (line-line)	≤ 65 V
Impulse durability (line-line)	C2 - 10 kV / 5 kA
	C3 - 23 A
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA

## Power supply, general

Connection method	Screw connection (in connection with the base element)
Connection method IN	PLUGTRAB plug-in system
Connection method OUT	PLUGTRAB plug-in system
Screw thread	M3



## Technical data

### Power supply, general

Stripping length	8 mm
Standards (protective circuit, information technology)	
IEC test classification	C1
	C2
	C3

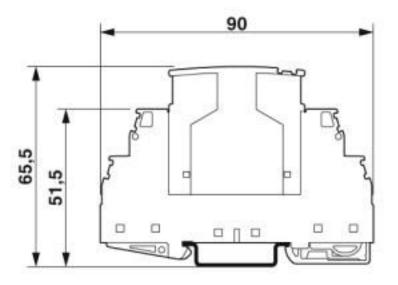
D1

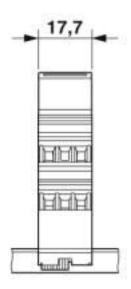
### **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

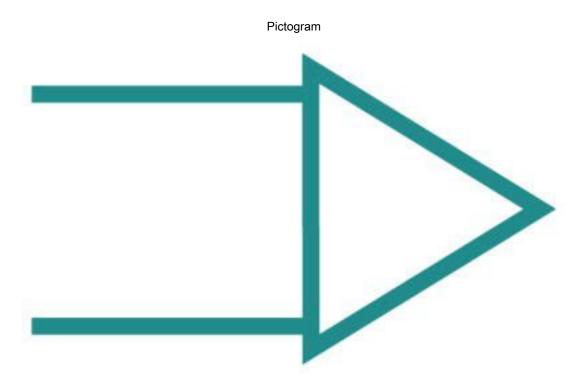
#### Dimensional drawing

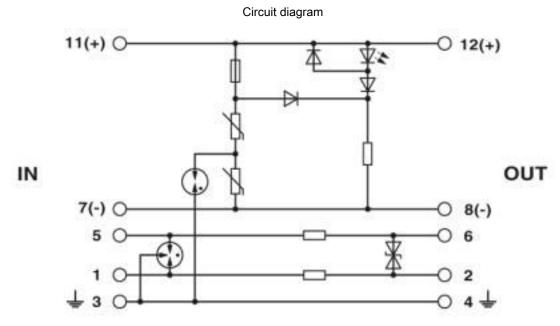




The figure shows the complete module consisting of a base element and connector







### Classifications

eCl@ss

eCl@ss 10.0.1	27130810



## Classifications

### eCl@ss

eCl@ss 4.0	27130800
eCl@ss 4.1	27130800
eCl@ss 5.0	27130800
eCl@ss 5.1	27130800
eCl@ss 6.0	27130800
eCl@ss 7.0	27130805
eCI@ss 8.0	27130810
eCl@ss 9.0	27130810

#### **ETIM**

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000899
ETIM 5.0	EC001473
ETIM 6.0	EC001473
ETIM 7.0	EC001473

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620
UNSPSC 18.0	39121620
UNSPSC 19.0	39121620
UNSPSC 20.0	39121620
UNSPSC 21.0	39121620

## Approvals

Approvals \_\_\_\_\_

Approvals

EAC / EAC

Ex Approvals



#### Approvals

Approval details

EAC-Zulassung

RU C-DE.A\*30.B01561

#### Accessories

#### Accessories

#### Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

#### Labeled terminal marker

Zack Marker strip, flat - ZBF 5,LGS:FORTL.ZAHLEN - 0808671



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 5,LGS:GERADE ZAHLEN - 0810821



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10



#### Accessories

Zack Marker strip, flat - ZBF 5,LGS:UNGERADE ZAHLEN - 0810863



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 5,QR:FORTL.ZAHLEN - 0808697



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

#### Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

#### Terminal marking

Zack Marker strip, flat - ZBF 5:UNBEDRUCKT - 0808642



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

Zack Marker strip, flat - ZBF 5/WH-100:UNBEDRUCKT - 0808668



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into flat marker groove, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10



#### Accessories

Necessary add-on products

Surge protection base element - PT PE/S+1X2-BE - 2856265



Base element for protective plug PT with surge voltage device protection for the power supply unit and one 2-wire floating signal circuit, mounting on NS 35/7.5 and NS 35/15, housing width: 17.5 mm

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