

# PT 2-TELE-ST - Surge protection plug

2838733

<https://www.phoenixcontact.com/us/products/2838733>

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Surge protection plug for base element, for protecting a double conductor of analog telecommunication interfaces.

## Commercial data

Item number	2838733
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL03
Product key	CL3121
GTIN	4046356044677
Weight per piece (including packing)	28.8 g
Weight per piece (excluding packing)	28.94 g
Customs tariff number	85363010
Country of origin	DE

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## Technical data

### Product properties

Product type	Surge protection for information technology
Product family	PLUGTRAB PT
IEC test classification	B2
	C1
	C2
	C3
	D1
Type	Male
Number of positions	2
Surge protection fault message	none
Wire pairs per module	1

### Insulation characteristics

Overvoltage category	III
Pollution degree	2

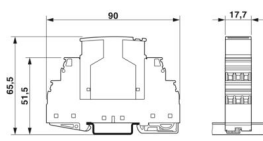
### Electrical properties

Nominal voltage $U_N$	185 V DC
	130 V AC

### Connection data

Connection method	pluggable
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### Dimensions

Dimensional drawing	
Width	17.7 mm
Height	45 mm
Depth	52 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 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	Line-Line & Line-Earth Ground
Nominal voltage $U_N$	185 V DC
	130 V AC
Maximum continuous operating voltage $U_C$	185 V DC
	130 V AC
Rated current	450 mA AC (45 °C)
	130 mA DC (45 °C)
Operating effective current $I_C$ at $U_C$	$\leq 10 \mu\text{A}$
Protective conductor current $I_{PE}$	$\leq 10 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-line)	10 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (line-ground)	10 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu\text{s}$ (line-line)	1 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu\text{s}$ (line-earth)	1 kA
Total discharge current $I_{Total}$ (8/20) $\mu\text{s}$	18 kA
Max. discharge current $I_{max}$ (8/20) $\mu\text{s}$ maximum (line-earth)	18 kA
Nominal pulse current $I_{an}$ (10/700) $\mu\text{s}$ (line-line)	100 A
Nominal pulse current $I_{an}$ (10/700) $\mu\text{s}$ (line-earth)	100 A
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-line) spike	$\leq 300 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) spike	$\leq 300 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-line) static	$\leq 300 \text{ V}$
Output voltage limitation at 1 kV/ $\mu\text{s}$ (line-earth) static	$\leq 300 \text{ V}$
Residual voltage at $I_n$ (conductor-conductor)	$\leq 160 \text{ V}$ (C2 - 10 kV / 5 kA)
Residual voltage at $I_n$ (conductor-ground)	$\leq 200 \text{ V}$ (C2 - 10 kV / 5 kA)
Voltage protection level $U_p$ (line-line)	$\leq 250 \text{ V}$ (B2 - 1 kV / 25 A)
	$\leq 300 \text{ V}$ (B2 - 4 kV / 100 A)
	$\leq 270 \text{ V}$ (C1 - 1 kV / 500 A)
	$\leq 300 \text{ V}$ (C2 - 2 kV/1 kA)
	$\leq 320 \text{ V}$ (C2 - 4 kV / 2 kA)
	$\leq 330 \text{ V}$ (C2 - 10 kV / 5 kA)
Voltage protection level $U_p$ (line-earth)	$\leq 250 \text{ V}$ (B2 - 1 kV / 25 A)
	$\leq 300 \text{ V}$ (B2 - 4 kV / 100 A)
	$\leq 270 \text{ V}$ (C1 - 1 kV / 500 A)
	$\leq 300 \text{ V}$ (C2 - 2 kV/1 kA)
	$\leq 320 \text{ V}$ (C2 - 4 kV / 2 kA)
	$\leq 330 \text{ V}$ (C2 - 10 kV / 5 kA)
Response time $t_A$ (line-line)	$\leq 500 \text{ ns}$
Response time $t_A$ (line-earth)	$\leq 500 \text{ ns}$

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Input attenuation aE, sym.	typ. 0.4 dB ( $\leq$ 5 MHz / 100 $\Omega$ )
Cut-off frequency f <sub>g</sub> (3 dB), sym. in 100 $\Omega$ system	typ. 20 MHz
Capacity (Core-Core)	typ. 30 pF (f=1 MHz / V <sub>R</sub> = 0 V)
Capacity (Core-Earth)	typ. 30 pF (f=1 MHz / V <sub>R</sub> = 0 V)
Surge protection fault message	none
Impulse durability (line-line)	B2 - 4 kV / 100 A
	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 25 A
	D1 - 1 kA
Impulse durability (line-earth)	B2 - 4 kV / 100 A
	C1 - 1 kV / 500 A
	C2 - 10 kV / 5 kA
	C3 - 25 A
	D1 - 1 kA

## 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

## Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000
Standards/specifications	EN 61643-21
Note	2002

## Mounting

Mounting type	on base element
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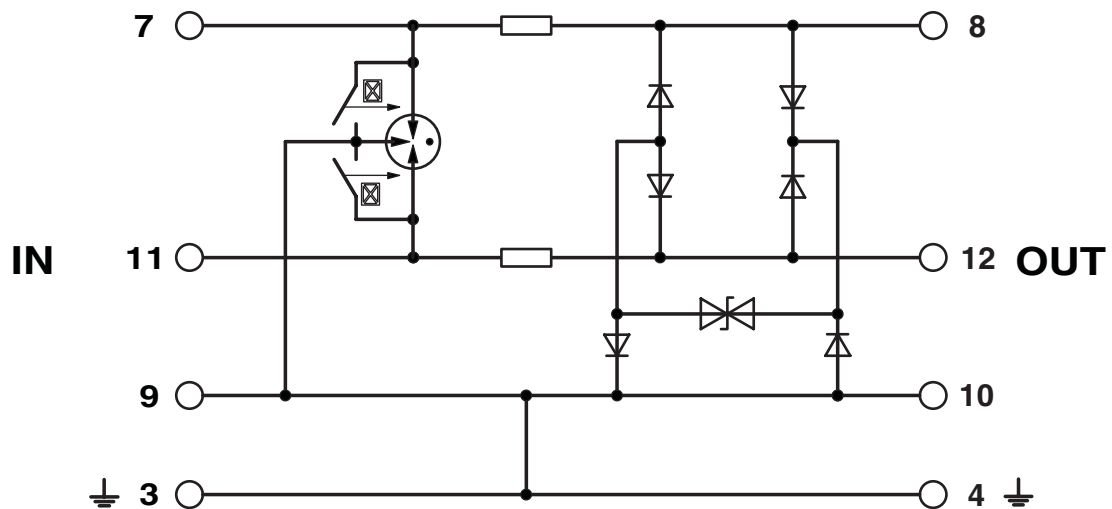
## Drawings

Dimensional drawing



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

Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0	27171503
ECLASS-15.0	27171503

### ETIM

ETIM 10.0	EC001625
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	a019aefc-4f31-4732-92b0-bf6a402b9381

### EF3.1 Climate Change

CO2e kg	0.893 kg CO2e
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