

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	10 pc
Sales key	CL03
Product key	CL3121
Catalog page	Page 188 (C-4-2019)
GTIN	4046356044677
Weight per piece (including packing)	28.94 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

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

Insulation characteristics

Overvoltage category	III
Pollution degree	2

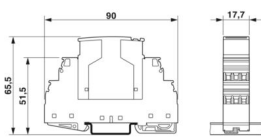
Electrical properties

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
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
Maximum continuous 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	$\leq 10 \mu\text{A}$
Residual current I_{PE}	$\leq 10 \mu\text{A}$
Nominal discharge current I_n (8/20) μs (line-line)	10 kA
Nominal discharge current I_n (8/20) μs (line-ground)	10 kA
Pulse discharge current I_{imp} (10/350) μs (line-line)	1 kA
Pulse discharge current I_{imp} (10/350) μs (line-earth)	1 kA
Total discharge current I_{total} (8/20) μs	18 kA
Max. discharge current I_{max} (8/20) μs maximum (line-earth)	18 kA
Nominal pulse current I_{an} (10/700) μs (line-line)	100 A
Nominal pulse current I_{an} (10/700) μs (line-earth)	100 A
Output voltage limitation at 1 kV/ μs (line-line) spike	$\leq 300 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-earth) spike	$\leq 300 \text{ V}$
Output voltage limitation at 1 kV/ μs (line-line) static	$\leq 300 \text{ V}$
Output voltage limitation at 1 kV/ μs (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)	$\leq 500 \text{ ns}$
Input attenuation aE, sym.	typ. 0.4 dB ($\leq 5 \text{ MHz}$ / 100 Ω)
Cut-off frequency f_g (3 dB), sym. in 100 Ω system	typ. 20 MHz

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Capacity (Core-Core)	typ. 30 pF (f=1 MHz / V _R = 0 V)
Capacity (Core-Earth)	typ. 30 pF (f=1 MHz / V _R = 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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Classifications

ECLASS

ECLASS-11.0	27130807
ECLASS-13.0	27171503

ETIM

ETIM 9.0	EC001466
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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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