PT 2-TELE-ST - Surge protection plug

2838733

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450 mA

IEC



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

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

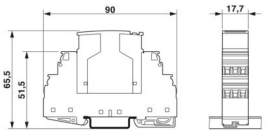
Electrical properties

Nominal voltage U_N	185 V DC
	130 V AC

Connection data

Connection method	pluggable

Dimensions

Dimensional drawing	
Width	17.7 mm
Height	45 mm
Depth	52 mm
Horizontal pitch	1 HP
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

Housing material	PA 6.6

Mechanical properties

Mechanical data

Open side panel	No

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	≤ 10 µA
Protective conductor current I_{PE}	≤ 10 µA
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 Ian (10/700) µs (line-line)	100 A
Nominal pulse current Ian (10/700) µs (line-earth)	100 A
Output voltage limitation at 1 kV/µs (line-line) spike	≤ 300 V
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 300 V
Output voltage limitation at 1 kV/µs (line-line) static	≤ 300 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 300 V
Residual voltage at I_n (conductor-conductor)	≤ 160 V (C2 - 10 kV / 5 kA)
Residual voltage at I_n (conductor-ground)	≤ 200 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-line)	≤ 250 V (B2 - 1 kV / 25 A)
	≤ 300 V (B2 - 4 kV / 100 A)
	≤ 270 V (C1 - 1 kV / 500 A)
	≤ 300 V (C2 - 2 kV/1 kA)
	≤ 320 V (C2 - 4 kV / 2 kA)
	≤ 330 V (C2 - 10 kV / 5 kA)
Voltage protection level U_p (line-earth)	≤ 250 V (B2 - 1 kV / 25 A)
	≤ 300 V (B2 - 4 kV / 100 A)
	≤ 270 V (C1 - 1 kV / 500 A)
	≤ 300 V (C2 - 2 kV/1 kA)
	≤ 320 V (C2 - 4 kV / 2 kA)
	≤ 330 V (C2 - 10 kV / 5 kA)
Response time t_A (line-line)	≤ 500 ns
Response time t_A (line-earth)	≤ 500 ns

Input attenuation aE, sym.	typ. 0.4 dB (≤ 5 MHz / 100 Ω)
Cut-off frequency fg (3 dB), sym. in 100 Ω system	typ. 20 MHz
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

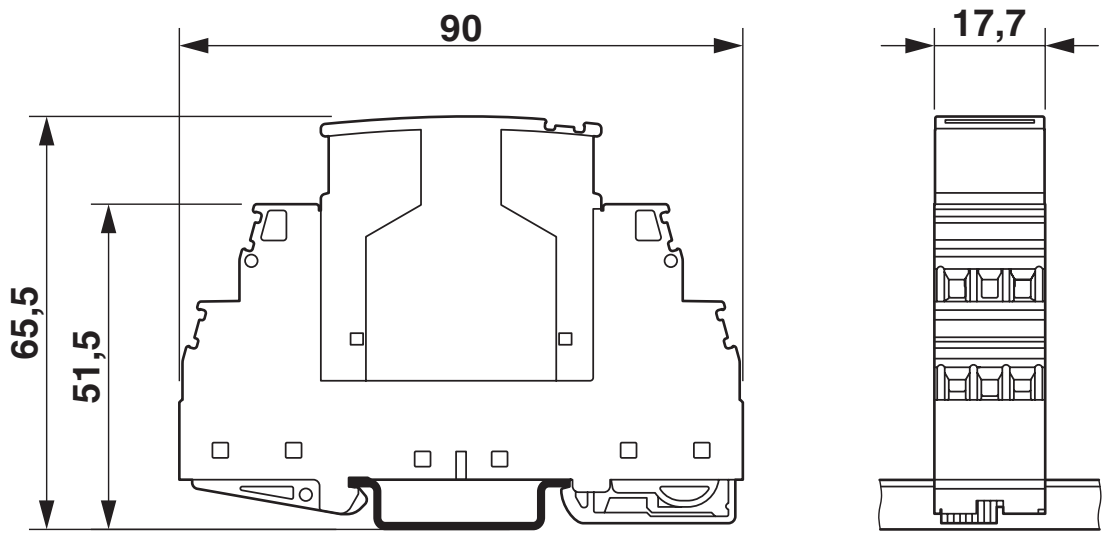
Standards/specifications	IEC 61643-21
Note	2000
Standards/specifications	EN 61643-21
Note	2002

Mounting

Mounting type	on base element

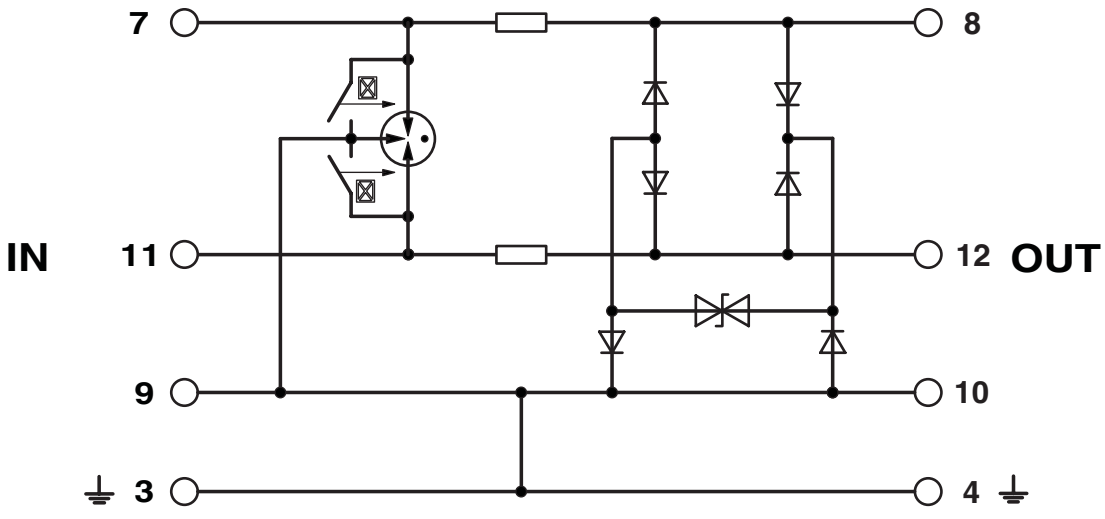
Drawings

Dimensional drawing



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

Circuit diagram



Classifications

ECLASS

ECLASS-13.0	27171503
ECLASS-15.0	27171503

ETIM

ETIM 10.0	EC001466

UNSPSC

UNSPSC 21.0	39121600

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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