PT 2-PE/S-230AC/FM - Type 3 surge protection device

2858357

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Pluggable type 3 arrester (device protection) for single-phase power supply networks with separate N and PE (3-conductor system: L1, N, PE) with remote indication contact.

Commercial data

Item number	2858357
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL1411
GTIN	4017918878955
Weight per piece (including packing)	81 g
Weight per piece (excluding packing)	70.44 g
Country of origin	DE

Technical data

Product properties

Product type	Device protection
Product family	PLUGTRAB PT
IEC power supply system	TT
	TN-S
Type	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	Optical, remote indicator contact

Insulation characteristics

Overvoltage category	III
Pollution degree	2
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00
IEC test classification	III
	T3
EN type	T3

Electrical properties

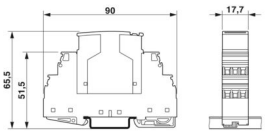
Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	N/C contact
Maximum operating voltage $U_{max.}$ AC	250 V
Max. operating current I_{max}	3 A AC

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque, min	0.8 Nm
Conductor cross-section flexible min.	0.2 mm²
Conductor cross-section flexible max.	2.5 mm²
Conductor cross-section, rigid min.	0.2 mm²
Conductor cross-section, rigid max.	4 mm²

Dimensions

Dimensional drawing	
Width	17.7 mm
Height	90 mm

Depth	65.5 mm
Horizontal pitch	1 HP
Complete module width	17.7 mm
Complete module height	90 mm
Complete module depth	65.5 mm

Material specifications

Flammability rating according to UL 94	V-0
Housing material	PA 6.6

Protective circuit

Direction of action	1L-N & N-PE
Nominal frequency f_N	50 Hz
	60 Hz
Maximum continuous operating voltage U_C	253 V AC
Nominal current I_N	26 A (30 °C)
Rated load current I_L	26 A (30 °C)
Protective conductor current I_{PE}	≤ 2.5 µA
Standby power consumption P_C	≤ 350 mVA
Nominal discharge current I_n (8/20) µs	3 kA
	3 kA (in acc. with UL 1449)
Nominal discharge current I_n (8/20) µs (L-N)	3 kA
Nominal discharge current I_n (8/20) µs (L-PE)	3 kA
Voltage protection level U_p (L-N)	≤ 1.1 kV
Voltage protection level U_p (L-PE)	≤ 1.5 kV
	≤ 600 V (asymmetrical (PE) static)
Voltage protection level U_p (N-PE)	≤ 1.5 kV
	≤ 600 V (asymmetrical (PE) static)
Residual voltage at In	≤ 1.1 kV
	≤ 600 V
	≤ 600 V
Response time t_A (L-N)	≤ 25 ns
Response time t_A (L-PE)	≤ 100 ns
Max. required back-up fuse	25 A (gL)
	25 A (MCB 25 A B/C)
Short-circuit current rating I_P with max. backup fuse (r.m.s.)	1.5 kA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-40 °C ... 85 °C

Standards and regulations

Standards

Standards/regulations	IEC 61643-1
	EN 61643-11/A11
	NF C61-740
	IEC 61643-1
	EN 61643-11/A11
	UL 1449
	NF C61-740

Air clearances and creepage distances

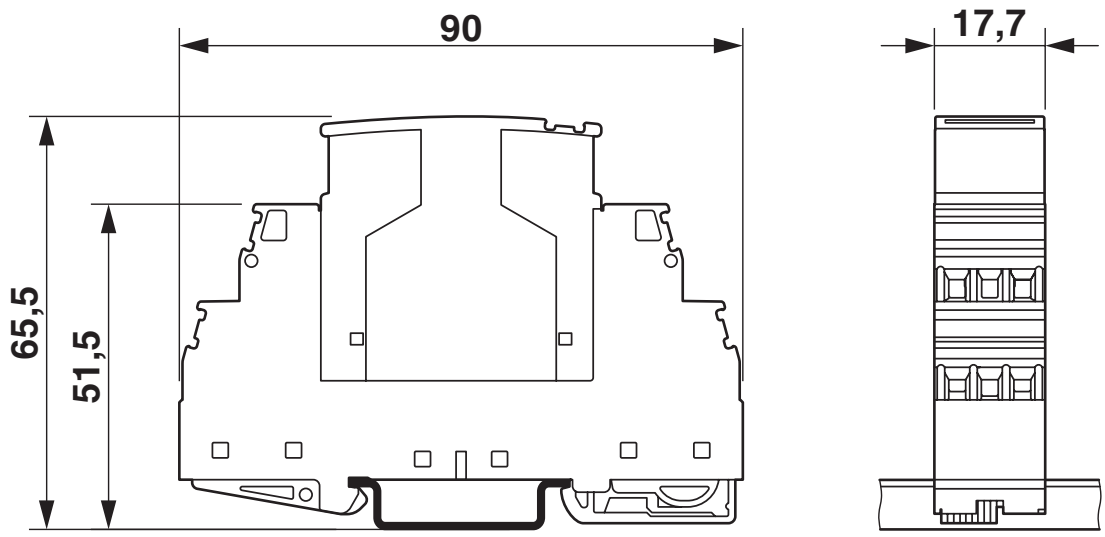
Standards/regulations	DIN VDE 0110-1 / IEC 60664-1
Standards/specifications	IEC 61643-1
Note	2005
Standards/specifications	EN 61643-11/A11
Note	2007
Standards/specifications	UL 1449

Mounting

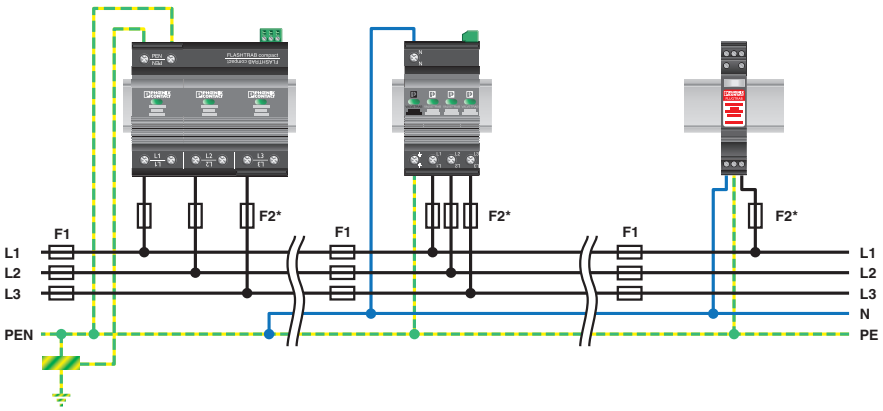
Mounting type	DIN rail: 35 mm

Drawings

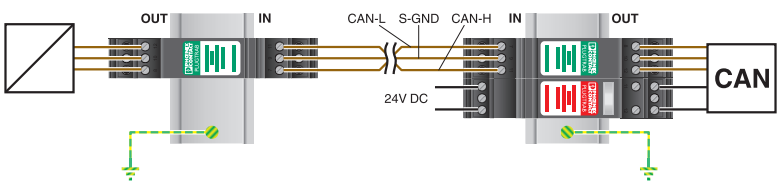
Dimensional drawing



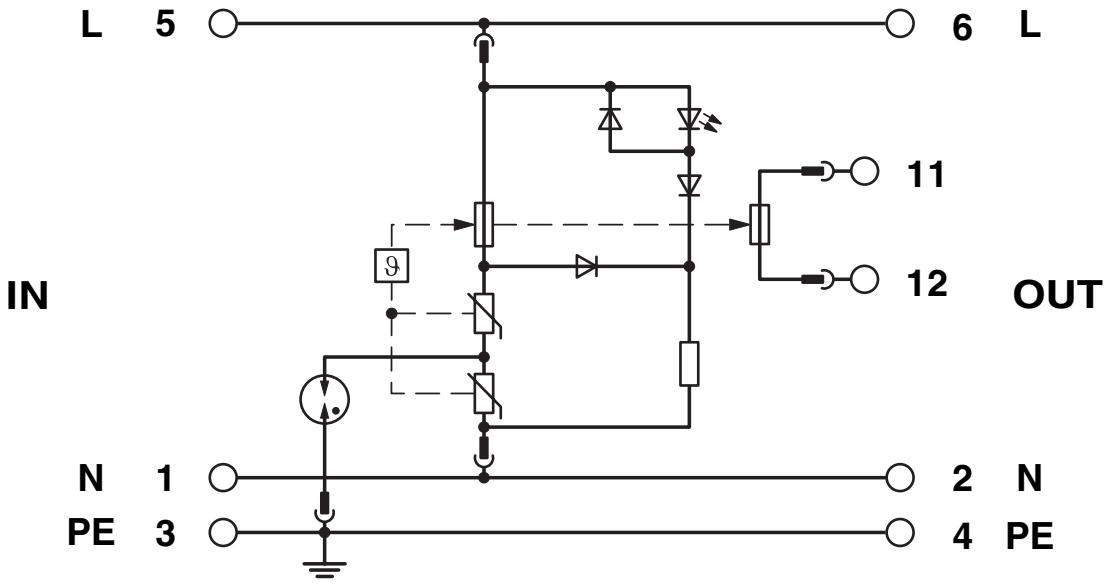
Application drawing



Application drawing



Circuit diagram



Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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