PT 4-PE/S-230AC/FM - Type 3 surge protection device

2882459

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Pluggable type 3 arrester (device protection) for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE) with remote indication contact.

Commercial data

Item number	2882459
Packing unit	5 pc
Minimum order quantity	1 pc
Product key	CL1411
GTIN	4046356081771
Weight per piece (including packing)	128.12 g
Weight per piece (excluding packing)	114.582 g
Country of origin	DE

Technical data

Product properties

Product type	Device protection
Product family	PLUGTRAB PT
Type	DIN rail module, two-section, divisible
Number of positions	4
Surge protection fault message	Optical, remote indicator contact
IEC test classification	III
	T3
EN type	T3

Electrical properties

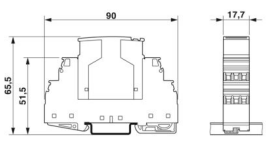
Indicator/remote signaling

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	35.4 mm
Height	90 mm
Depth	65.5 mm
Horizontal pitch	2 HP
Complete module width	35.4 mm
Complete module height	90 mm
Complete module depth	65.5 mm

Material specifications

Flammability rating according to UL 94	V0
Housing material	PA

Protective circuit

Direction of action	3L-N & N-PE
Nominal frequency f_N	50 Hz
	60 Hz
Maximum continuous operating voltage U_C	335 V AC (255 V AC / N-PE)
Maximum continuous operating voltage U_C (L-N)	335 V AC
Maximum continuous operating voltage U_C (N-PE)	255 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	≤ 750 mVA
Nominal discharge current I_n (8/20) µs	1.5 kA (per channel)
Nominal discharge current I_n (8/20) µs (L-N)	1.5 kA
Nominal discharge current I_n (8/20) µs (L-PE)	1.5 kA
Nominal discharge current I_n (8/20) µs (N-PE)	1.5 kA
Maximum discharge current I_{max} (8/20) µs	10 kA (N-PE)
Maximum discharge current I_{max} (8/20) µs (L-N)	4.5 kA
Maximum discharge current I_{max} (8/20) µs (L-PE)	4.5 kA
Maximum discharge current I_{max} (8/20) µs (N-PE)	10 kA
Voltage protection level U_p (L-N)	≤ 1.2 kV
Voltage protection level U_p (L-PE)	≤ 1.5 kV
Voltage protection level U_p (N-PE)	≤ 1.5 kV
Response time t_A (L-N)	≤ 25 ns
Response time t_A (L-PE)	≤ 100 ns
Response time t_A (N-PE)	≤ 100 ns
Max. required back-up fuse	25 A (gL)
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
Ambient temperature (operation)	-40 °C ... 85 °C

Standards and regulations

Standards

Standards/regulations	IEC 61643-1
	EN 61643-11/A11

Air clearances and creepage distances

Standards/regulations	DIN VDE 0110-1 / IEC 60664-1 / IEC 61643-1 / DIN EN 61643-11

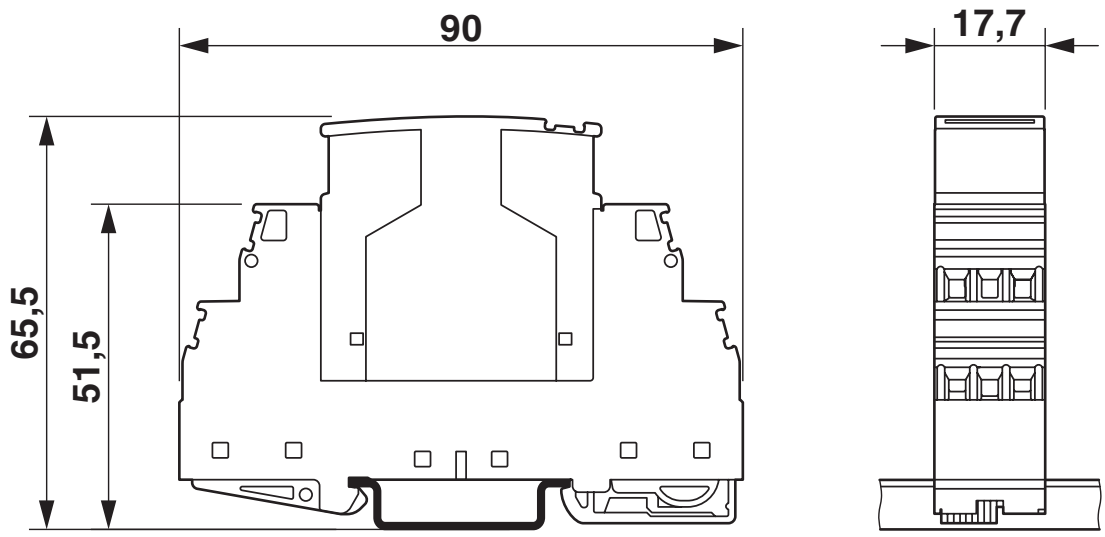
Standards/specifications	IEC 61643-1
Note	2005
Standards/specifications	EN 61643-11/A11
Note	2007

Mounting

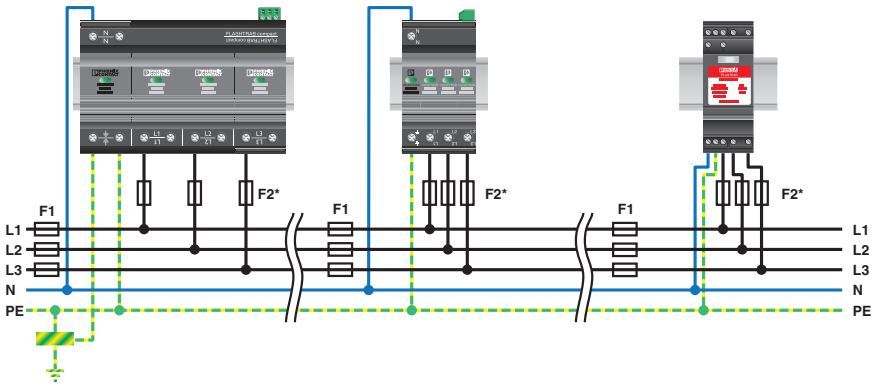
Mounting type	DIN rail: 35 mm

Drawings

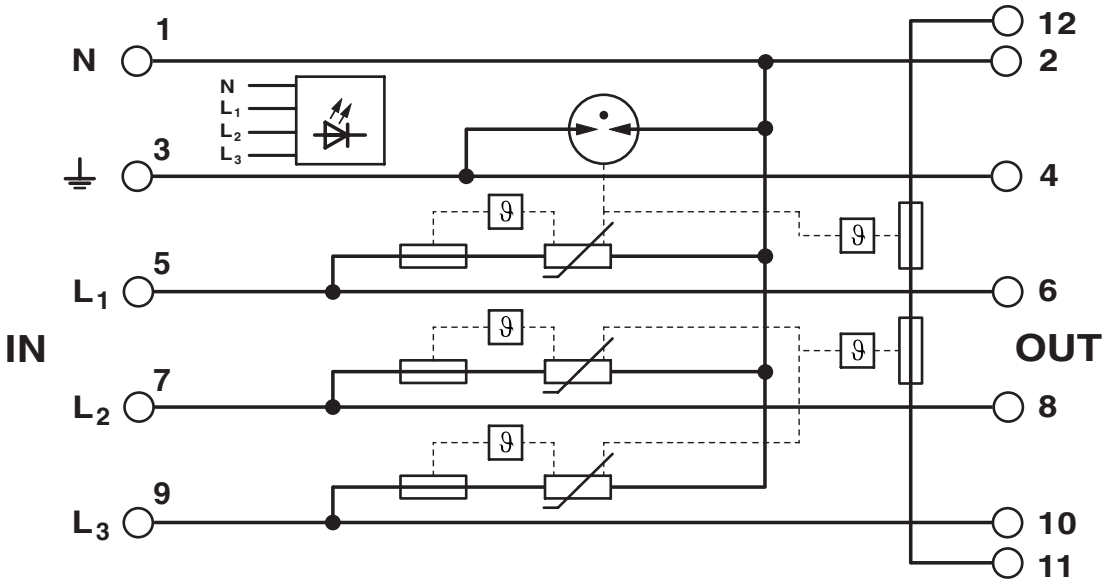
Dimensional drawing



Application drawing



Circuit diagram



Environmental product compliance

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.)	No substance above 0.1 wt%

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PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk