

# PT 2-PE/S-60AC/FM - Type 3 surge protection device



2800961

<https://www.phoenixcontact.com/us/products/2800961>

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The figure shows the PT 2-PE/S-230AC/FM version

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	2800961
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	CL1411
GTIN	4046356660266
Weight per piece (including packing)	72.82 g
Weight per piece (excluding packing)	72.82 g
Customs tariff number	85363030
Country of origin	DE

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## 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
IEC test classification	III
	T3
EN type	T3

### Electrical properties

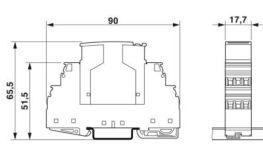
#### Indicator/remote signaling

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	0.5 Nm
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	4 mm <sup>2</sup>

### Dimensions

Dimensional drawing	
Width	17.7 mm
Height	90 mm
Depth	65.5 mm
Horizontal pitch	1 Div.

### Material specifications

Flammability rating according to UL 94	V0
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Housing material	PA
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## Protective circuit

Direction of action	1L-N & N-PE
Nominal frequency $f_N$	50 Hz 60 Hz
Maximum continuous operating voltage $U_C$	100 V AC 95 V DC
Rated load current $I_L$	26 A (30 °C)
Protective conductor current $I_{PE}$	$\leq 1.5 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	2.5 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (L-N)	2.5 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$ (L/N-PE)	2.5 kA
Maximum discharge current $I_{max}$ (8/20) $\mu\text{s}$	6.5 kA
Voltage protection level $U_p$ (L-N)	$\leq 400 \text{ V}$
Voltage protection level $U_p$ (L/N-PE)	$\leq 700 \text{ V}$
Residual voltage at $I_n$	$\leq 420 \text{ V}$
Response time $t_A$ (L-N)	$\leq 25 \text{ ns}$
Response time $t_A$ (L-PE)	$\leq 100 \text{ ns}$
Response time $t_A$ (N-PE)	$\leq 100 \text{ ns}$
Max. required back-up fuse	25 A (gL) 25 A (MCB 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
Ambient temperature (operation)	-40 °C ... 85 °C

## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	IEC 60664-1
Standards/specifications	IEC 61643-1
Note	2005
Standards/specifications	EN 61643-11/A11
Note	2007
Standards/specifications	UL 1449
Note	ed. 2

## Mounting

Mounting type	DIN rail: 35 mm
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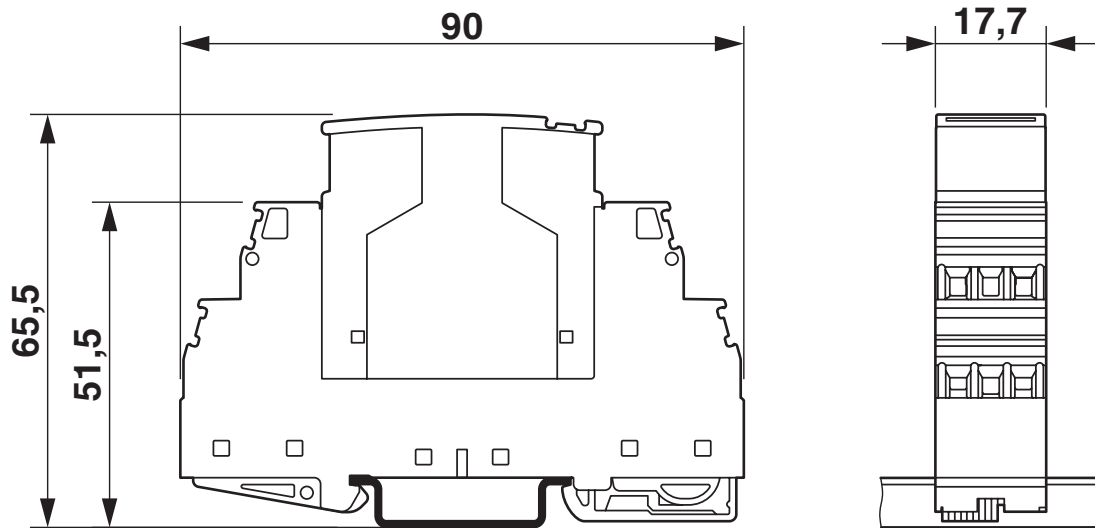


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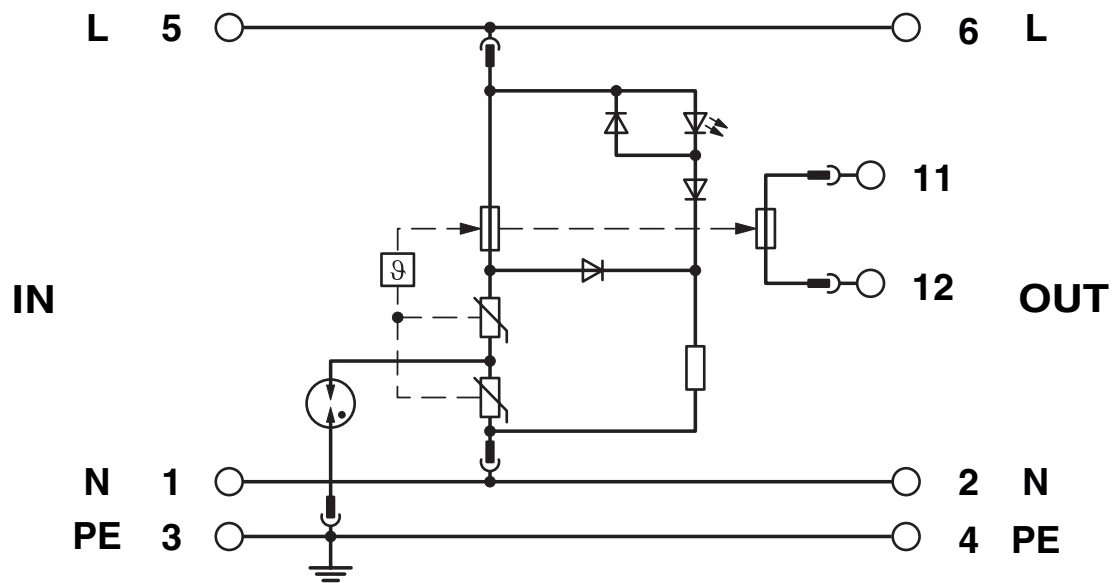
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## Drawings

Dimensional drawing



Circuit diagram



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## Environmental product compliance

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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