

# PT 2-PE/S-24AC/FM

Order No.: 2800457

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



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2800457>

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

GTIN (EAN)	4 046356 547840
sales group	J030
Pack	1 pcs.
Customs tariff	85363010
Product key	07030
country of origin	DE
Catalog page information	Page 52 (TT-2011)

## Product notes

WEEE/RoHS-compliant since:  
11/24/2009



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## Technical data

### Standards

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	IEC 60664-1: 1992-10

Degree of protection	IP20
Design	DIN rail module, two-section, divisible
Mounting type	DIN rail: 35 mm
Number of positions	2
Ambient temperature (operation)	-40 °C ... 85 °C
Direction of action	1L-N & N-PE
Width	17.70 mm
Height	65.50 mm
Length	90.00 mm
Pitch unit	1 Div.

#### Protective circuit

IEC category	III
	T3
EN type	T3
Nominal voltage $U_N$	24 V AC/DC
Arrester rated voltage $U_C$	34 V AC
	44 V DC
Nominal frequency $f_N$	50 Hz
	60 Hz
Nominal current $I_N$	26 A (30 °C)
Ground conductor current $I_{PE}$	$\leq 1 \mu\text{A}$
Nominal discharge surge current $I_n$ (8/20) $\mu\text{s}$	1 kA
Nominal discharge surge current $I_n$ (8/20) $\mu\text{s}$ (L-N)	1 kA
Combined surge $U_{OC}$	2 kV
Protection level $U_P$ (L-N)	$\leq 180 \text{ V}$
Residual voltage at $I_n$ , (L-N)	$\leq 180 \text{ V}$
Response time $t_A$ (L-N)	$\leq 25 \text{ ns}$
Response time $t_A$ (L-PE)	$\leq 100 \text{ ns}$
Max. required back-up fuse	25 A (gL)
	25 A (MCB B/C)
Short-circuit resistance $I_p$ with max. backup fuse (effective)	1.5 kA
Message: Surge protection fault	Optical, remote indicator contact

#### Non-heating apparatus connection, power supply

Connection type IN	Screw terminal blocks
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Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

**Remote indicator contact**

Connection name	Remote fault indicator contact
Switching function	N/C contact
Connection method	Screw connection
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Maximum operating voltage U <sub>max</sub> AC	250 V
Maximum operating voltage U <sub>max</sub> DC	50 V
Max. operating current I <sub>max</sub>	3 A AC

**Standards**

Standard - Electrical safety	IEC 61643-1 2005
	EN 61643-11/A11 2007
	UL 1449 ed. 3

**Accessories**

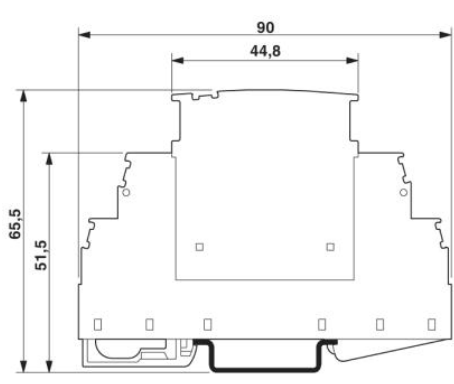
Item	Designation	Description
<b>Marking</b>		
1050004	ZB 5 :UNBEDRUCKT	Zack strip, unprinted, 10-section, for individual labeling with M-PEN, ZB-T or CMS system, pack is sufficient for 100 terminal blocks, for a terminal width of 5.2 mm, color: White
0824962	ZB 5 CUS	Terminal block marking, can be labeled as per customer specifications
0824965	ZB 5,8 CUS	Terminal block marking, can be labeled as per customer specifications
2715209	ZB 5,8:UNBEDRUCKT	Zack strip, unprinted, strips with 10 labels for individual labeling with M-PEN or CMS system, for terminal block width: 5.8 mm, color: White
1050017	ZB 5,LGS:FORTL.ZAHLEN	Zack marker strip, 10-section, printed horizontally: with the numbers 1 - 10, 11 - 20 and so on up to 491 - 500, color: white
1050415	ZB 5,LGS:L1-N,PE	Zack strip, printed horizontally, strips with 10 labels, L1, L2, L3, N, PE, L1, L2, L3, N, PE, color: white

**Additional products**

Item	Designation	Description
<b>Assembly</b>		
2839295	SSA 3-6	shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black
2839512	SSA 5-10	Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

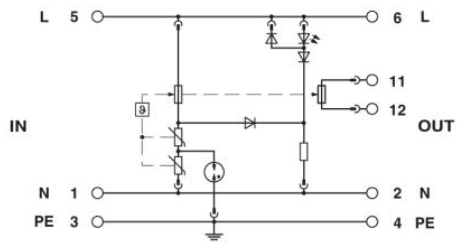
**Diagrams/Drawings**

Dimensioned drawing



Circuit diagram

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