

PT 2-PE/S-120AC/FM

Order No.: 2856812

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



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2856812>

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 017918 952952
sales group	J030
Pack	1 pcs.
Customs tariff	85363010
Catalog page information	Page 52 (TT-2011)

Product notes

WEEE/RoHS-compliant since: 06/02/2006

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Technical data	
Standards	
Housing material	PA
Inflammability class acc. to UL 94	V0
Color	black

Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1: 1992-10
	DIN VDE 0675-6
	IEC 61643-1
Surge voltage category	III
Pollution degree	2
Degree of protection	IP20
Design	DIN rail module, two-section, divisible
Mounting type	DIN rail: 35 mm
Ambient temperature (operation)	-40 °C ... 85 °C
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00
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
EN type	T3
Nominal voltage U_N	120 V AC
Arrester rated voltage U_C	150 V AC
Nominal frequency f_N	50 Hz
	60 Hz
Nominal current I_N	26 A (30°C)
Operating effective current I_C at U_C	≤ 1.1 mA
Ground conductor current I_{PE}	≤ 1.5 μ A
Nominal discharge surge current I_n (8/20) μ s	2.5 kA
Combined surge U_{OC}	6 kV
Protection level U_p (L-N)	≤ 620 V
Protection level U_p (L-PE)	≤ 850 V
Protection level U_p (N-PE)	≤ 850 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/C)

Message: Surge protection fault	Optical, remote indicator contact
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Non-heating apparatus connection, power supply

Connection method	Screw connection
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
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 ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Maximum operating voltage U _{max} AC	250 V
Maximum operating voltage U _{max} DC	50 V
Max. operating current I _{max}	3 A AC

Standards

Standard - Electrical safety	IEC 61643-1 2005
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	EN 61643-11/A11 2007
	UL 1449
	NF C61-740

Certificates / Approvals



Certification CB, CCA, CUL, GOST, KEMA, OEVE, UL

Certification Ex: CUL-EX, UL-EX

Accessories

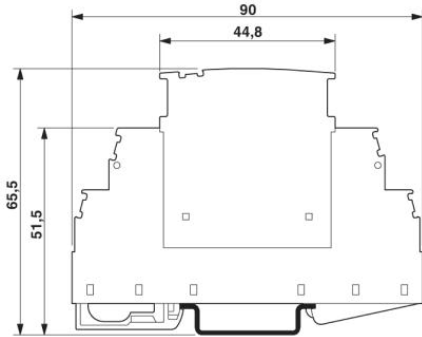
Item	Designation	Description
Marking		
1050004	ZB 5 :UNBEDRUCKT	Zack strip, unprinted, 10-section, for individual labeling with M-PEN, ZB-T or CMS system, pack is sufficient for 100 terminal blocks, for a terminal width of 5.2 mm, color: White
0824962	ZB 5 CUS	Terminal block marking, can be labeled as 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

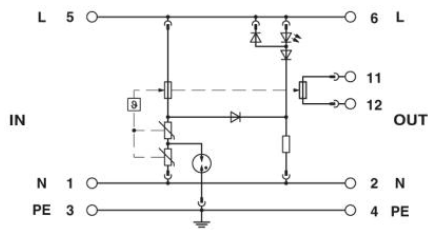
Item	Designation	Description
Assembly		
2839295	SSA 3-6	shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black
2839512	SSA 5-10	Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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