

PT 4-PE/S-230AC/FM

Order No.: 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

EAN	 4 046356 081771
Pack	1 pcs.
Customs tariff	85363090
Gross weight in pieces	0.11458 kg
Catalog page information	Page 56 (C-6-2013)

Product notes

WEEE/RoHS-compliant since:
06.06.2006



Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation at <http://www.download.phoenixcontact.com>. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Dimensions

Height	90 mm
Width	35.4 mm
Depth	65.5 mm
Horizontal pitch	2 Div.
Complete module height	90 mm

Complete module width	35.4 mm
Complete module depth	65.5 mm

Ambient conditions

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

General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1
	IEC 61643-1
	DIN EN 61643-11
Type	DIN rail module, two-section, divisible
Mounting type	DIN rail: 35 mm
Number of positions	4
Direction of action	3L-N & N-PE

Protective circuit

IEC test classification	III
	T3
EN type	T3
Nominal voltage U_N	230 V AC (Max. 240/415 V AC)
	400 V AC (L-L)
Arrester rated voltage U_C	335 V AC (255 V AC / N-PE)
Arrester rated voltage U_C (L-N)	335 V AC
Arrester rated voltage U_C (N-PE)	255 V AC
Nominal frequency f_N	50 Hz
	60 Hz
Nominal current I_N	26 A (30 °C)
Residual current I_{PE}	$\leq 2.5 \mu A$
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

Max. discharge current $I_{\max}$ (8/20) μs	10 kA (N-PE)
Max. discharge current $I_{\max}$ (8/20) μs maximum (L-N)	4.5 kA
Max. discharge current $I_{\max}$ (8/20) μs maximum (L-PE)	4.5 kA
Max. discharge current $I_{\max}$ (8/20) μs maximum (N-PE)	10 kA
Combined surge U_{OC}	4 kV
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 resistance I_p with max. backup fuse (effective)	1.5 kA
Surge protection fault message	Optical, remote indicator contact

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
Max. operating current I _{max}	3 A AC

Standards and Regulations

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

Certificates



Certification

GOST, KEMA-KEUR, ÖVE, GL, IECCEB CB Scheme

Certifications applied for:

Certification Ex:

Accessories

Item	Designation	Description
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Marking

0811228	X-PEN 0,35	Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm
0814717	ZBF 15:SO/CMS	Zack Marker strip, flat, white
0808671	ZBF 5,LGS:FORTL.ZAHLEN	Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

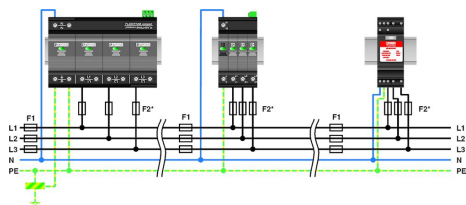
0810821	ZBF 5,LGS:GERADE ZAHLEN	Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 2 - 20, 22 - 40, etc. up to 82 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm
0810863	ZBF 5,LGS:UNGERADE ZAHLEN	Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm
0808697	ZBF 5,QR:FORTL.ZAHLEN	Zack Marker strip, flat, Strip, white, labeled, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm
0808668	ZBF 5/WH-100:UNBEDRUCKT	Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm
0808707	ZBF 5:SO/CMS	Zack Marker strip, flat, white, for terminal block width: 5 mm
0808642	ZBF 5:UNBEDRUCKT	Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.1 x 5.2 mm
0800763	ZBN 18:SO/CMS	Zack marker strip, white, for terminal block width: 18 mm
2809128	ZBN 18:UNBEDRUCKT	Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

Additional products

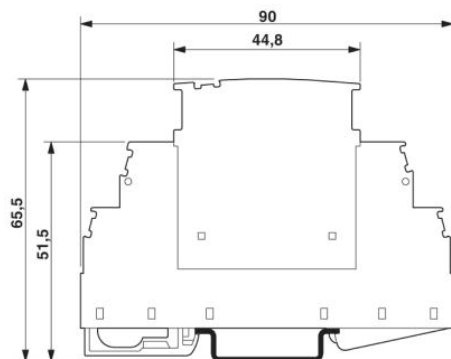
Item	Designation	Description
Assembly		
2839295	SSA 3-6	shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black
2839512	SSA 5-10	Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

Drawings

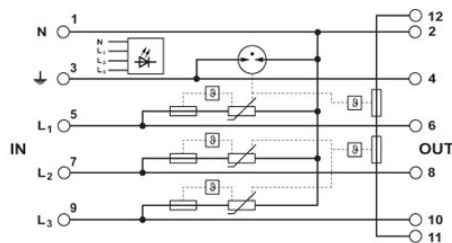
Application drawing



Dimensioned drawing



Circuit diagram



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