

PT 2-PE/S-230AC/FM

Order No.: 2858357



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Pluggable type 3 arrester (device protection) for 1-phase power supply networks with separate N and PE (3-conductor system: L1, N, PE), with remote indication contact. Overall width: 17.5 mm.



Commercial data

EAN	4017918878955
Pack	1 pcs.
Customs tariff	85363090
Weight/Piece	0.07976 KG
Catalog page information	Page 46 (TT-2009)

Product notes

WEEE/RoHS-compliant since:
05/12/2006



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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
Number of positions	2
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
	T3
EN type	T3
Nominal voltage U_N	230 V AC
Arrester rated voltage U_C	253 V AC
Nominal frequency f_N	50 Hz
	60 Hz
Nominal current I_N	26 A ($\leq 30^\circ\text{C}$)
Operating effective current I_C at U_C	≤ 1.5 mA
Discharge current to PE at U_C	≤ 1.5 μA
Nominal discharge surge current I_n (8/20) μs	3 kA
Nominal discharge surge current I_n (8/20) μs (L-N)	3 kA
Nominal discharge surge current I_n (8/20) μs (L-PE)	3 kA
Max. discharge surge current I_{max} (8/20) μs	10 kA
100% lightning impulse sparkover voltage (1.2/50) μs	≤ 1.1 kV

Combined surge U_{oc}	6 kV
Energy absorption symmetrical	170 J
Energy absorption, asymmetrical	85 J
Protection level U_p (L-N)	≤ 1.1 kV
Protection level U_p (L-PE)	≤ 1.5 kV
	≤ 600 V (asymmetrical (PE) static)
Protection level U_p (N-PE)	≤ 1.5 kV
	≤ 600 V (asymmetrical (PE) static)
Residual voltage at I_n , (L-N)	≤ 1.1 kV
Residual voltage at I_n , (L-PE)	≤ 600 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 faulty	Optical, remote indicator contact

Connection, protective circuit

Standards/regulations	IEC 61643-1
	DIN EN 61643-11/A11
	E DIN VDE 0675-6/A1
	E DIN VDE 0675-6/A2
	UL 1449
	NF C61-740

Remote indicator contact

Connection name	Remote fault indicator contact
Schaltfunktion	N/C contact
Type of connection	Screw connection
Screw thread	M3
Tightening torque, min	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/DC

Certificates / Approvals



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

CUL

Nominal voltage U_N	230 V
Nominal current I_N	20 A

UL

Nominal voltage U_N	230 V
Nominal current I_N	20 A

Accessories

Item	Designation	Description
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Marking

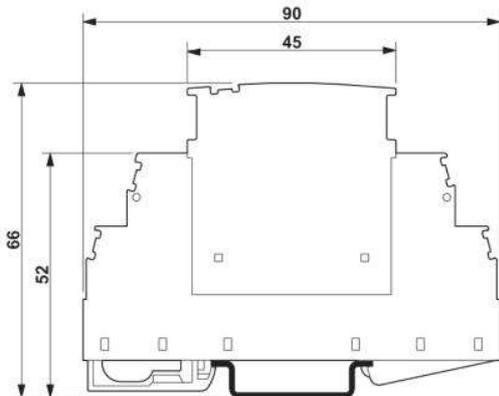
1050004	ZB 5 :UNBEDRUCKT	Zack strip, unprinted, 10-section, for individual labeling with M-PEN, ZB-T or CMS system, pack is sufficient for 100 terminal blocks, for a terminal width of 5.2 mm, color: White
2715212	ZB 5,8,LGS:FORTL.ZAHLEN	Zack marker strip, 10-section, printed horizontally: with consecutive numbers, 1-10, 11-20 etc. up to 991-1000, color: white
1050305	ZB 5,8:SO/CMS	Zack strip, 10-section, divisible, special printing, marking according to customer requirements
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 strip, 10-section, printed horizontally: with the numbers, 1-10, 11-20 etc. up to 991-1000, 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
1050295	ZB 5:SO/CMS	Zack strip, 10-section, divisible, special printing, marking according to customer requirements

Additional products

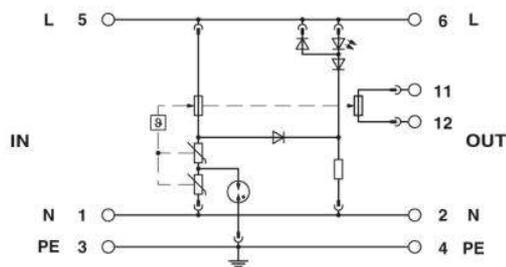
Item	Designation	Description
Assembly		
2839295	SSA 3-6	shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black
2839512	SSA 5-10	Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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