

# PT 2-PE/S-230AC/FM

Order No.: 2858357



Pluggable type 3 arrester (device protection) for 1-phase power supply networks with separate N and PE (5-conductor system: L1, N, PE), with remote indication contact. Overall width: 35 mm.



Commercial data	
EAN	4017918878955
Pack	1 pcs.
Customs tariff	85363090
Weight/Piece	0.0795 KG
Catalog page information	Page 40 (TT-2007)

### Product notes

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



## 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 $U_C$	$\leq 1.5$ mA
Discharge current to PE at $U_C$	$\leq 1.5$ $\mu\text{A}$
Nominal discharge surge current $I_n$ (8/20) $\mu\text{s}$	3 kA
Nominal discharge surge current $I_n$ (8/20) $\mu\text{s}$ (L-N)	3 kA
Nominal discharge surge current $I_n$ (8/20) $\mu\text{s}$ (L-PE)	3 kA
Max. discharge surge current $I_{\text{max}}$ (8/20) $\mu\text{s}$	10 kA
100% lightning impulse sparkover voltage (1.2/50) $\mu\text{s}$	$\leq 1.1$ kV

Combined surge $U_{oc}$	6 kV
Energy absorption symmetrical	170 J
Energy absorption, asymmetrical	85 J
Protection level $U_p$ (L-N)	$\leq 1.1$ kV
Protection level $U_p$ (L-PE)	$\leq 1.5$ kV
	$\leq 600$ V (asymmetrical (PE) static)
Protection level $U_p$ (N-PE)	$\leq 1.5$ kV
	$\leq 600$ V (asymmetrical (PE) static)
Residual voltage at $I_n$ , (L-N)	$\leq 1.1$ kV
Residual voltage at $I_n$ , (L-PE)	$\leq 600$ V
Response time $t_A$ (L-N)	$\leq 25$ ns
Response time $t_A$ (L-PE)	$\leq 100$ 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_Int	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 <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 $U_{max}$ 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

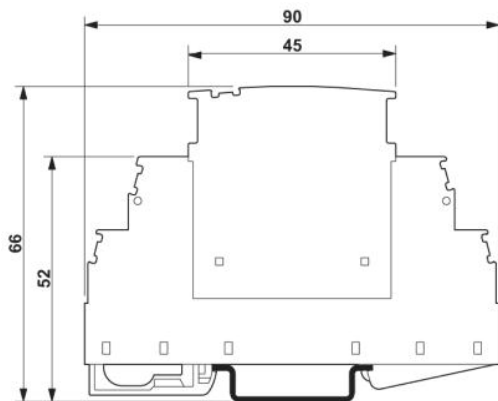
Item	Designation	Description
<b>Marking</b>		
1050004	ZB 5 :UNBEDRUCKT	Zack strip, unprinted, 10-section, for individual labeling with M-PEN, ZB-T or CMS system, pack is sufficient for 100 terminal blocks, for a terminal width of 5.2 mm, color: White
2715212	ZB 5,8,LGS:FORTL.ZAHLEN	Zack marker strip, 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
<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

**Drawings**

Dimensioned drawing



Circuit diagram

