



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

Order No.: 2858357



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2858357>

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



<http://www.download.phoenixcontact.com>  
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. The General Terms and Conditions of Use apply to Internet downloads.

#### 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 In, (L-N)	$\leq 1.1$ kV
Residual voltage at In, (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	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

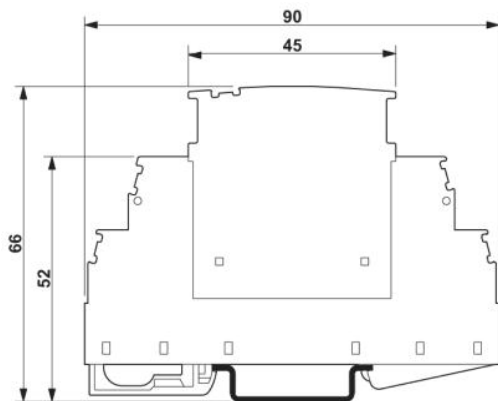
Item	Designation	Description
<b>Marking</b>		
1050004	ZB 5 :UNBEDRUCKT	Zack strip, unprinted, 10-section, for individual labeling with M-PEN, ZB-T or CMS system, pack is sufficient for 100 terminal blocks, for a terminal width of 5.2 mm, color: White
2715212	ZB 5,8,LGS:FORTL.ZAHLEN	Zack marker strip,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

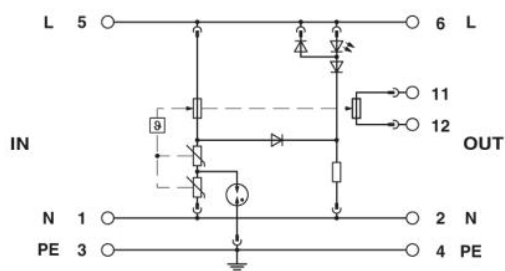
Item	Designation	Description
<b>Assembly</b>		
2839295	SSA 3-6	shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black
2839512	SSA 5-10	Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

**Diagrams/Drawings**

Dimensioned drawing



Circuit diagram



**Address**

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