

## PT 2+1-S-48DC/FM

Order No.: 2817958

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



Rail-mountable surge arrester as device protection for terminal equipment, fault signal in the plug and signaling contact in the base element, 2-section, pluggable. Design: 48 V DC



Commercial data	
EAN	4017918574987
Pack	10 pcs.
Customs tariff	85363090
Weight/Piece	0.06971 KG
Catalog page information	Page 41 (TT-2007)

### Product notes

WEEE/RoHS-compliant since:  
01/02/2007



### 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
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 $U_N$	48 V DC
Arrester rated voltage $U_C$	60 V DC
Arrester rated voltage $U_C$ (L-PE)	60 V DC
Nominal current $I_N$	26 A (at 30°C)
Operating effective current $I_C$ at $U_C$	$\leq 10 \mu\text{A}$
Discharge current to PE at $U_C$	$\leq 10 \text{ mA}$
Nominal discharge surge current $I_n$ (8/20) $\mu\text{s}$	500 A
Nominal discharge surge current $I_n$ (8/20) $\mu\text{s}$ (L-N)	500 A
Nominal discharge surge current $I_n$ (8/20) $\mu\text{s}$ (L-PE)	500 A
Max. discharge surge current $I_{\text{max}}$ (8/20) $\mu\text{s}$	500 A
Max. discharge surge current $I_{\text{max}}$ (8/20) $\mu\text{s}$ maximum (L-N)	500 A
Max. discharge surge current $I_{\text{max}}$ (8/20) $\mu\text{s}$ maximum (L-PE)	500 A
Combined surge $U_{\text{oc}}$	6 kV (for 12 $\Omega$ )
Protection level $U_p$ (L-N)	$\leq 120 \text{ V}$
Protection level $U_p$ (L-PE)	$\leq 120 \text{ V}$

Protection level $U_p$ (N-PE)	$\leq 120$ V
Response time $t_A$ (L-N)	$\leq 1$ ns
Response time $t_A$ (L-PE)	$\leq 1$ ns
Max. required back-up fuse	25 A (gL)
Message surge protection faulty	Optical, remote indicator contact

**Connection, protective circuit**

Standards/regulations	IEC 61643-1
	EN 50082-2
	BS 6651
	ANSI/IEEE C62.41

**Remote indicator contact**

Connection name	Remote fault indicator contact
Schaltfunktion_Int	N/C contact
Type of connection	Screw connection
Screw thread	M3
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

**Certificates / Approvals**

Certification CUL, GOST, UL

**CUL**

Nominal voltage $U_N$	34 V
Nominal current $I_N$	20 A

**UL**

Nominal voltage $U_N$	34 V
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Nominal current $I_N$	20 A
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### Accessories

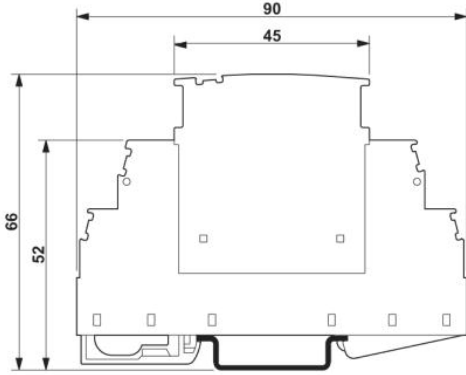
Item	Designation	Description
<b>Marking</b>		
1051993	B-STIFT	Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm
0811228	X-PEN 0,35	Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm
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
0808642	ZBF 5:UNBEDRUCKT	Zack strip, flat, unprinted: 10-section, for individual labeling with M-PEN or ZBF-T, sufficient for 100 terminal blocks, color: white

### 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

