

Type 3 surge protection device - PT 2-PE/S-24AC/FM - 2800457

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

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

Your advantages

- ✓ Plugs can be checked with CHECKMASTER
- ✓ Tool-free plug replacement
- ✓ With floating remote indication contact
- ✓ Optical signaling of disconnection via LED
- ✓ Consists of base element and plug
- ✓ DIN rail module
- ✓ For single and multi-phase power supply units



Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 547840
GTIN	4046356547840

Technical data

Dimensions

Height	90 mm
Width	17.7 mm
Depth	65.5 mm
Horizontal pitch	1 Div.

Ambient conditions

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

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Technical data

General

Housing material	PA
Flammability rating according to UL 94	V0
Color	black
Standards for clearances and creepage distances	IEC 60664-1
Type	DIN rail module, two-section, divisible
Mounting type	DIN rail: 35 mm
Number of positions	2
Direction of action	1L-N & N-PE

Protective circuit

EN type	T3
Nominal voltage U_N	24 V AC/DC
Arrester rated voltage U_C	34 V AC
	44 V DC
Nominal frequency f_N	50 Hz
	60 Hz
Nominal current I_N	26 A (30 °C)
Standby power consumption P_C	≤ 60 mVA
Residual current I_{PE}	≤ 1 µA
Nominal discharge current I_n (8/20) µs (L-N)	1 kA
Nominal discharge current I_n (8/20) µs (L-PE)	1 kA
Combination wave U_{OC}	2 kV
Voltage protection level U_p (L-N)	≤ 180 V
Voltage protection level U_p (L-PE)	≤ 550 V
Residual voltage at I_n , (L-N)	≤ 180 V
Residual voltage at I_n , (L-PE)	≤ 120 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)
	25 A (MCB B/C)
Short-circuit withstand capability I_P with max. backup fuse (r.m.s.)	1.5 kA
Surge protection fault message	Optical, remote indicator contact

Non-heating apparatus connection, power supply

Connection method IN	Screw terminal blocks
Connection method OUT	Screw terminal blocks
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²

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Non-heating apparatus connection, power supply

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12

Remote indication contact

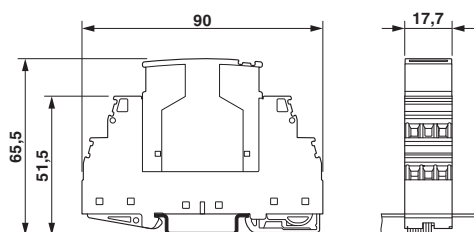
Connection name	Remote fault indicator contact
Switching function	N/C contact
Connection method	Screw connection
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG 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

Standards and Regulations

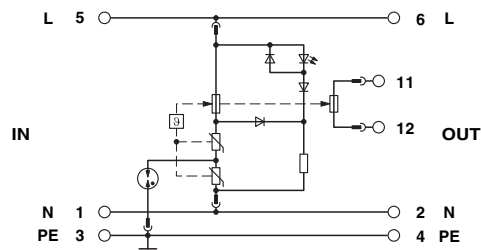
Standards/specifications	IEC 61643-1 2005
	EN 61643-11/A11 2007
	UL 1449 ed. 3

Drawings

Dimensional drawing



Circuit diagram



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