

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



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

### Why buy this product

- ✓ 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
Weight per Piece (excluding packing)	80.0 g
Weight per piece (including packing)	96.9 g
Custom tariff number	85363010
Country of origin	Germany
Sales Key	K1 - Overvoltage Protect.

### Technical data

#### Dimensions

Height	90 mm
Width	17.7 mm
Depth	65.5 mm

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

## Technical data

### Dimensions

Horizontal pitch	1 Div.
------------------	--------

### Ambient conditions

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

### General

Housing material	PA
Inflammability class according to UL 94	V0
Color	black
Standards for air 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

IEC test classification	III
	T3
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)
Residual current $I_{PE}$	$\leq 1 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$	1 kA
Nominal discharge current $I_n$ (8/20) $\mu s$ (L-N)	1 kA
Combined surge $U_{oc}$	2 kV
Voltage protection level $U_p$ (L-N)	$\leq 180 V$
Residual voltage at $I_n$ , (L-N)	$\leq 180 V$
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)
	25 A (MCB B/C)
Short-circuit resistance $I_p$ with max. backup fuse (effective)	1.5 kA
Surge protection fault message	Optical, remote indicator contact

### Non-heating apparatus connection, power supply

Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks

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

## Technical data

### Non-heating apparatus connection, power supply

Screw thread	M3
Tightening torque	0.5 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

### Remote indicator 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 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 <sub>max</sub> AC	250 V
Maximum operating voltage U <sub>max</sub> DC	50 V
Max. operating current I <sub>max</sub>	3 A AC

### Standards and Regulations

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

## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130806
eCl@ss 7.0	27130806

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

## Classifications

### eCl@ss

eCl@ss 8.0	27130806
------------	----------

### ETIM

ETIM 2.0	EC000942
ETIM 3.0	EC000942
ETIM 4.0	EC000942
ETIM 5.0	EC000941

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

### Approvals

---

Approvals

GL

---

Ex Approvals

---

Approvals submitted

---

### Approval details

GL
----

## Accessories

Accessories

Labeled terminal marker

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

### Accessories

Zack marker strip - ZB 5,LGS:FORTL.ZAHLEN - 1050017



Zack marker strip, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

Marker for terminal blocks - ZB 5,LGS:L1-N,PE - 1050415



Marker for terminal blocks, Strip, white, labeled, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

Zack marker strip - ZB 5 CUS - 0824962



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

Zack marker strip - ZB 5,8 CUS - 0824965



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 5.8 mm, Lettering field: 5.75 x 10.5 mm

### Terminal marking

Zack marker strip - ZB 5 :UNBEDRUCKT - 1050004



Zack marker strip, Strip, white, Unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.1 x 10.5 mm

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

## Accessories

Zack marker strip - ZB 5,8:UNBEDRUCKT - 2715209



Zack marker strip, Strip, white, Unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 5.8 mm, Lettering field: 5.75 x 10.5 mm

## Additional products

Shield connection - SSA 3-6 - 2839295



shield fast connections for conductor diameter 3 - 6 mm. Potential connection cable: 200 mm, black

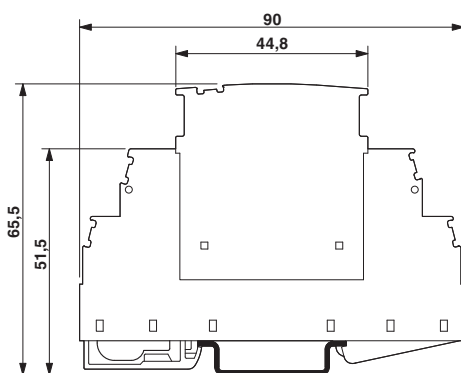
Shield connection - SSA 5-10 - 2839512



Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

## Drawings

Dimensioned drawing



Circuit diagram

