

Type 3 surge protection device - PT 4-PE/S-230AC/FM - 2882459

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 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE) with remote indication contact.

Why buy this product

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



Key commercial data

| | |
|--------------------------------------|---|
| Packing unit | 5 pc |
| GTIN |  4 046356 081771 |
| Weight per Piece (excluding packing) | 114.582 g |
| Weight per piece (including packing) | 128.12 g |
| Custom tariff number | 85363090 |
| Country of origin | Germany |
| Sales Key | K1 - Overvoltage Protect. |

Technical data

Dimensions

| | |
|------------------------|---------|
| Height | 90 mm |
| Width | 35.4 mm |
| Depth | 65.5 mm |
| Horizontal pitch | 2 Div. |
| Complete module height | 90 mm |

Type 3 surge protection device - PT 4-PE/S-230AC/FM - 2882459

Technical data

Dimensions

| | |
|-----------------------|---------|
| Complete module width | 35.4 mm |
| Complete module depth | 65.5 mm |

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 | DIN VDE 0110-1 |
| | IEC 60664-1 |
| | IEC 61643-1 |
| | DIN EN 61643-11 |
| Type | DIN rail module, two-section, divisible |
| Mounting type | DIN rail: 35 mm |
| Number of positions | 4 |
| Direction of action | 3L-N & N-PE |

Protective circuit

| | |
|--|------------------------------|
| IEC test classification | III |
| | T3 |
| EN type | T3 |
| Nominal voltage U_N | 230 V AC (Max. 240/415 V AC) |
| | 400 V AC (L-L) |
| Arrester rated voltage U_C | 335 V AC (255 V AC / N-PE) |
| Arrester rated voltage U_C (L-N) | 335 V AC |
| Arrester rated voltage U_C (N-PE) | 255 V AC |
| Nominal frequency f_N | 50 Hz |
| | 60 Hz |
| Nominal current I_N | 26 A (30 °C) |
| Residual current I_{PE} | $\leq 2.5 \mu A$ |
| Nominal discharge current I_n (8/20) μs | 1.5 kA (per channel) |
| Nominal discharge current I_n (8/20) μs (L-N) | 1.5 kA |
| Nominal discharge current I_n (8/20) μs (L-PE) | 1.5 kA |
| Nominal discharge current I_n (8/20) μs (N-PE) | 1.5 kA |
| Max. discharge current I_{max} (8/20) μs | 10 kA (N-PE) |
| Max. discharge current I_{max} (8/20) μs maximum (L-N) | 4.5 kA |
| Max. discharge current I_{max} (8/20) μs maximum (L-PE) | 4.5 kA |
| Max. discharge current I_{max} (8/20) μs maximum (N-PE) | 10 kA |
| Combined surge U_{OC} | 4 kV |

Type 3 surge protection device - PT 4-PE/S-230AC/FM - 2882459

Technical data

Protective circuit

| | |
|--|-----------------------------------|
| Voltage protection level U_p (L-N) | ≤ 1.2 kV |
| Voltage protection level U_p (L-PE) | ≤ 1.5 kV |
| Voltage protection level U_p (N-PE) | ≤ 1.5 kV |
| Response time t_A (L-N) | ≤ 25 ns |
| Response time t_A (L-PE) | ≤ 100 ns |
| Response time t_A (N-PE) | ≤ 100 ns |
| Max. required back-up fuse | 25 A (gL) |
| 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 method | Screw connection |
| Connection type IN | Screw terminal blocks |
| Connection type OUT | Screw terminal blocks |
| Screw thread | M3 |
| Tightening torque | 0.8 Nm |
| Stripping length | 8 mm |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded 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/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 ² |
| Conductor cross section stranded 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/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 12 |
| Maximum operating voltage U_{max} AC | 250 V |
| Max. operating current I_{max} | 3 A AC |

Standards and Regulations

| | |
|--------------------------|------------------|
| Standards/specifications | IEC 61643-1 2005 |
|--------------------------|------------------|

Type 3 surge protection device - PT 4-PE/S-230AC/FM - 2882459

Technical data

Standards and Regulations

| | |
|--|----------------------|
| | EN 61643-11/A11 2007 |
|--|----------------------|

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 |
| eCl@ss 8.0 | 27130806 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000942 |
| ETIM 3.0 | EC000942 |
| ETIM 4.0 | EC000942 |
| ETIM 5.0 | EC000942 |

UNSPSC

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

Approvals

Approvals

Approvals

KEMA-KEUR / ÖVE / GOST / IEC CB Scheme / GL

Ex Approvals

Approvals submitted

Approval details

Type 3 surge protection device - PT 4-PE/S-230AC/FM - 2882459

Approvals

KEMA-KEUR

ÖVE

GOST

IECEE CB Scheme

GL

Accessories

Accessories

Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, Unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 18 mm, Lettering field: 18 x 5 mm

Labeled terminal marker

Zack Marker strip, flat - ZBF 5,LGS:FORTL.ZAHLEN - 0808671



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Type 3 surge protection device - PT 4-PE/S-230AC/FM - 2882459

Accessories

Zack Marker strip, flat - ZBF 5,LGS:GERADE ZAHLEN - 0810821



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Consecutive numbers 2 - 20, 22 - 40, etc. up to 82 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,LGS:UNGERADE ZAHLEN - 0810863



Zack Marker strip, flat, Strip, white, labeled, Printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Zack Marker strip, flat - ZBF 5,QR:FORTL.ZAHLEN - 0808697



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - 100, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Marker pen

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

Terminal marking

Zack Marker strip, flat - ZBF 5:UNBEDRUCKT - 0808642



Zack Marker strip, flat, Strip, white, Unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.1 x 5.2 mm

Type 3 surge protection device - PT 4-PE/S-230AC/FM - 2882459

Accessories

Zack Marker strip, flat - ZBF 5/WH-100:UNBEDRUCKT - 0808668



Zack Marker strip, flat, Strip, white, Unlabeled, can be labeled with: Plotter, Mounting type: Snap into flat marker groove, for terminal block width: 5 mm, Lettering field: 5.15 x 5.15 mm

Additional products

Shield connection - SSA 3-6 - 2839295



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

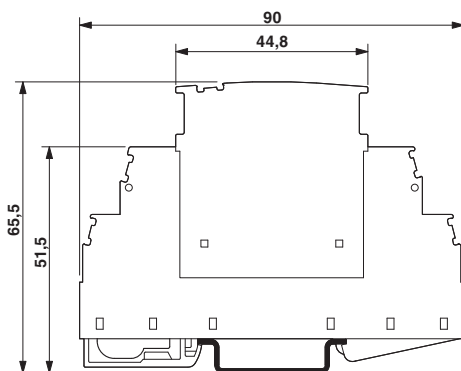
Shield connection - SSA 5-10 - 2839512



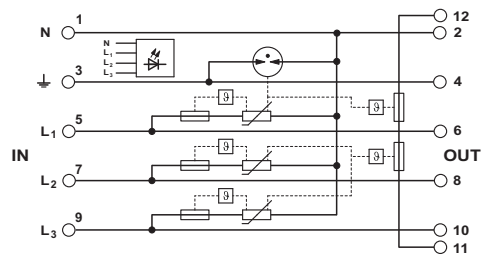
Shield fast connection for conductor diameters 5 - 10 mm. Potential connection cable: 200 mm, black

Drawings

Dimensioned drawing



Circuit diagram



Type 3 surge protection device - PT 4-PE/S-230AC/FM - 2882459

Application drawing

