2858030

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Surge protection plug for the base element, normal mode voltage coarse and fine protection for two floating signal wires in IT, common mode voltage coarse protection to ground.

Your advantages

- · Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- · Maximum ease of maintenance, thanks to the 2-piece design
- · Easy selection for all possible demands in MCR applications with a complete product portfolio
- · The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

Commercial data

| Item number | 2858030 |
|--------------------------------------|---------------------|
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL3121 |
| Product key | CL3121 |
| Catalog page | Page 178 (C-4-2019) |
| GTIN | 4017918878030 |
| Weight per piece (including packing) | 29.37 g |
| Weight per piece (excluding packing) | 20.53 g |
| Customs tariff number | 85363090 |
| Country of origin | DE |

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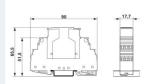
Technical data

Product properties

| Product type | Surge protection for information technology |
|--|--|
| Product family | PLUGTRAB PT |
| IEC test classification | C1 |
| | C2 |
| | C3 |
| | D1 |
| VDE requirement class | C1 |
| | C2 |
| | C3 |
| | D1 |
| Туре | Male |
| Number of positions | 2 |
| Arrester can be tested with CHECKMASTER from software version: | From SW rev. 1.10 |
| Wire pairs per module | 3 |
| Insulation characteristics | |
| Overvoltage category | III |
| Pollution degree | 2 |
| Electrical properties | |
| Nominal voltage U _N | 5 V DC |
| Connection data | |
| Connection method | Screw connection (in connection with the base element) |
| Screw thread | M3 |
| Tightening torque | 0.8 Nm |
| Conductor cross section flexible | 0.2 mm ² 2.5 mm ² |
| | |

Dimensions

Conductor cross section rigid Conductor cross section AWG



0.2 mm² ... 4 mm²

24 ... 12

| Width | 17.7 mm |
|------------------|---------|
| Height | 45 mm |
| Depth | 52 mm |
| Horizontal pitch | 1 Div. |



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| Complete module width | 17.7 mm |
|------------------------|---------|
| Complete module height | 90 mm |
| Complete module depth | 65.5 mm |

Material specifications

| Color | black (RAL 9005) |
|--|------------------|
| Flammability rating according to UL 94 | V-0 |
| Housing material | PA |

Mechanical properties

Mechanical data

Protective circuit

| Direction of action | Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground |
|--|---|
| Maximum continuous voltage U _C | 5.2 V DC |
| | 3.6 V AC |
| Rated current | 450 mA (45 °C) |
| Operating effective current I_C at U_C | ≤ 300 µA |
| Residual current I _{PE} | ≤ 300 µA (with PT 1X2-BE) |
| | ≤ 1 μA (with PT 1X2+F-BE) |
| Nominal discharge current I _n (8/20) μs (line-ground) | 10 kA |
| Pulse discharge current l _{imp} (10/350) μs | 2.5 kA |
| Total discharge current Ι _{Total} (8/20) μs | 20 kA |
| Max. discharge current I_{max} (8/20) μ s maximum (line-line) | 10 kA |
| Max. discharge current I_{max} (8/20) μ s maximum (line-earth) | 10 kA |
| Nominal pulse current lan (10/1000) µs (line-line) | 90 A |
| Output voltage limitation at 1 kV/µs (line-line) spike | ≤ 55 V |
| Output voltage limitation at 1 kV/µs (line-earth) spike | ≤ 55 V (with PT 1X2-BE) |
| | ≤ 700 V (with PT 1X2+F-BE) |
| Output voltage limitation at 1 kV/µs (line-line) static | ≤ 15 V |
| Output voltage limitation at 1 kV/µs (line-earth) static | ≤ 15 V |
| | ≤ 30 V (with PT 1X2+F-BE) |
| Residual voltage at I _n (conductor-conductor) | ≤ 15 V |
| Residual voltage at I _n (conductor-ground) | ≤ 30 V (with PT 1X2-BE) |
| Residual voltage at I _n (line-signal ground) | ≤ 15 V (with PT 1X2-BE) |
| Residual voltage with Ian (10/1000) µs (line-line) | ≤ 15 V |
| Residual voltage with lan (10/1000) μs (line-signal ground) | ≤ 15 V |
| Voltage protection level U _p (line-line) | ≤ 70 V (C1 - 1 kV / 500 A) |
| | ≤ 45 V (C3 - 25 A) |
| | ≤ 100 V (C2 - 10 kV / 5 kA) |
| | ≤ 70 V (6 kV / 3 kA) |
| | ≤ 80 V (C1 - 1 kV / 500 A) |

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| Voltage protection level U _p (line-earth) | ≤ 110 V (C2 - 10 kV / 5 kA) |
|--|-------------------------------|
| | ≤ 100 V (6 kV / 3 kA) |
| | ≤ 45 V (C3 - 25 A) |
| Voltage protection level U_p (line-signal ground) | ≤ 45 V (C3 - 25 A) |
| Response time t _A (line-line) | ≤ 500 ns |
| Response time t _A (line-earth) | ≤ 500 ns |
| Response time t_A (line-signal ground) | ≤ 500 ns |
| Input attenuation aE, sym. | typ. 0.3 dB (≤ 5 MHz / 100 Ω) |
| Cut-off frequency fg (3 dB), sym. in 100 Ω system | typ. 60 MHz |
| Capacity (Core-Core) | typ. 30 pF |
| Resistance per path | 2.2 Ω ±10 % (7-8/11-12) |
| Surge protection fault message | none |
| Max. required back-up fuse | 500 mA (T) |
| Impulse durability (line-line) | C2 - 10 kV / 5 kA |
| | C3 - 90 A |
| Impulse durability (line-earth) | C2 - 10 kV / 5 kA |
| | C3 - 90 A |
| | D1 - 2.5 kA |

Environmental and real-life conditions

| Ambient conditions | |
|---------------------------------|--------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C 85 °C |
| Altitude | max. 2000 m |

Standards and regulations

| VDE requirement class | C1 |
|-----------------------|----|
| | C2 |
| | C3 |
| | D1 |

Air clearances and creepage distances

| Standards/regulations | DIN EN 61664-1 / IEC 60664-1 |
|--------------------------|------------------------------|
| Standards/specifications | EN 61643-21/A1 |
| Note | 2009 |
| Standards/specifications | IEC 61643-21/A1 |
| Note | 2008 |

Mounting

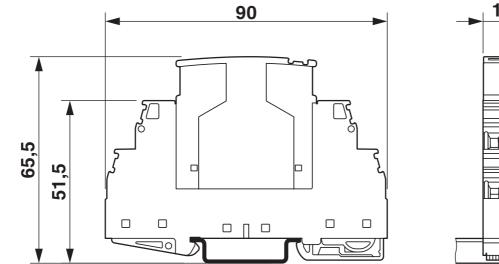
| Mounting type | on base element |
|---------------|-----------------|
|---------------|-----------------|

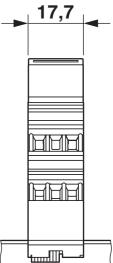
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Drawings

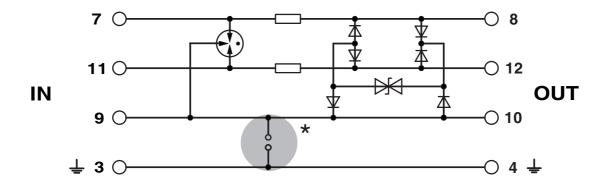




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The figure shows the complete module consisting of a base element and connector

Circuit diagram



Dimensional drawing



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Approvals

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| ERC | EAC Approval ID: EAC-Zulassung |
|-----|---|
| | |
| | DNV GL Approval ID: TAE00001N6 |
| | |
| EAC | EAC Approval ID: RU C-DE.*09.B.00169 |
| | |
| | UL Listed Approval ID: FILE E 138168 |

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Classifications

ECLASS

| | ECLASS-13.0 | 27171503 | |
|--------|-------------|----------|--|
| ETIM | | | |
| | | | |
| | ETIM 9.0 | EC000943 | |
| | | | |
| UNSPSC | | | |
| | UNSPSC 21.0 | 39121600 | |

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Environmental product compliance

EU RoHS

| Fulfills EU RoHS substance requirements | Yes |
|---|--|
| Exemption | 7(a), 7(c)-l |
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 7cb99cb1-c917-4b56-9222-921e264f4a80 |

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