

2838762

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Protective plug PT with HF protective circuit for 4 signal wires. Nominal voltage: 5 V DC

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 | 2838762 |
|--------------------------------------|---------------------|
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | CL03 |
| Product key | CL3121 |
| Catalog page | Page 173 (C-4-2019) |
| GTIN | 4017918480653 |
| Weight per piece (including packing) | 26.605 g |
| Weight per piece (excluding packing) | 25.26 g |
| Customs tariff number | 85363010 |
| Country of origin | DE |



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Technical data

Product properties

| · | |
|--|---|
| IEC test classification | C1 |
| | C2 |
| | C3 |
| | D1 |
| VDE requirement class | C1 |
| | C2 |
| | C3 |
| | D1 |
| Туре | Male |
| Product type | Surge protection for information technology |
| Product family | PLUGTRAB PT |
| Number of positions | 5 |
| Surge protection fault message | none |
| Arrester can be tested with CHECKMASTER from software version: | From SW rev. 1.00 |
| Wire pairs per module | 2 |
| Insulation characteristics | |
| Overvoltage category | III |
| Pollution degree | 2 |
| | |

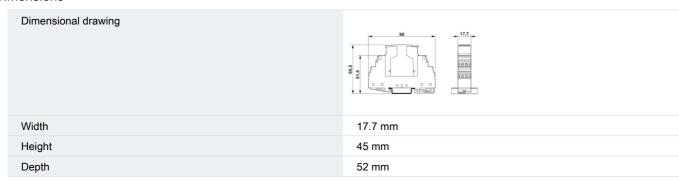
Electrical properties

| Nominal voltage U _N | 5 V DC |
|--------------------------------|--------|
| rionina rollago o l | 0.20 |

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 mm² 2.5 mm² |
| Conductor cross section rigid | 0.2 mm² 4 mm² |
| Conductor cross section AWG | 24 12 |

Dimensions





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| Horizontal pitch | 1 Div. |
|------------------------|---------|
| Complete module width | 17.7 mm |
| Complete module height | 90 mm |
| Complete module depth | 65.5 mm |

Material specifications

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

Mechanical properties

Mechanical data

| Open side panel | No |
|-----------------|----|
| | |

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 2X2-BE) |
| | ≤ 1 µA (with PT 2X2+F-BE) |
| Nominal discharge current I _n (8/20) µs (line-line) | 10 kA |
| Nominal discharge current I _n (8/20) µs (line-ground) | 10 kA |
| Pulse discharge current I _{imp} (10/350) μs | 2.5 kA |
| Total discharge current I _{total} (8/20) µs | 20 kA |
| Max. discharge current I _{max} (8/20) µs maximum (line-line) | 10 kA |
| Max. discharge current I _{max} (8/20) µs 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 2X2-BE) |
| | ≤ 700 V (with PT 2X2+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 2X2+F-BE) |
| Residual voltage at I _n (conductor-conductor) | ≤ 15 V |
| Residual voltage at I _n (conductor-ground) | ≤ 30 V (with PT 2X2-BE) |
| Residual voltage at I _n (line-signalground) | ≤ 15 V (with PT 2X2-BE) |
| Residual voltage with Ian (10/1000) µs (line-line) | ≤ 15 V |
| Residual voltage with lan (10/1000) µs (line-signalground) | ≤ 15 V |
| Voltage protection level U _p (line-line) | ≤ 70 V (C1 - 1 kV / 500 A) |
| | ≤ 45 V (C3 - 25 A) |



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| | ≤ 100 V (C2 - 10 kV / 5 kA) |
|---|---------------------------------|
| | ≤ 70 V (6 kV / 3 kA) |
| Voltage protection level U_p (line-earth) | ≤ 80 V (C1 - 1 kV / 500 A) |
| | ≤ 110 V (C2 - 10 kV / 5 kA) |
| | ≤ 100 V (6 kV / 3 kA) |
| | ≤ 45 V (C3 - 25 A) |
| Voltage protection level U _p (line-signalground) | ≤ 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-signalground) | ≤ 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 % (1-2/5-6/7-8/11-12) |
| 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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