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Surge protection in the IP67 screw-on module for measuring sensors, direct mounting with 1/2" NPT outer thread, cable gland for the signal cable, two-stage protective circuit. HART-compatible.

Product Features

Arresters in hexagonal pipe with various outer threads



Key commercial data

| Packing unit | 1 pc |
|--------------------------------------|----------|
| Weight per Piece (excluding packing) | 3.2 GRM |
| Custom tariff number | 85369010 |
| Country of origin | Germany |

Technical data

Dimensions

| Height | 34 mm |
|--------|--------|
| Width | 34 mm |
| Depth | 148 mm |

Ambient conditions

| Ambient temperature (operation) | -40 °C 85 °C |
|---------------------------------|--------------|
| Degree of protection | IP67 |

General

| Housing material | Zinc die-cast, surface bronzed and nickel-plated |
|--|--|
| Color | silver |
| Standards for air and creepage distances | IEC 60664-1 |



Technical data

General

| | VDE 0110-1 |
|---------------------|-------------------------------|
| Mounting type | ct screw connection |
| Туре | Screw-in module |
| Number of positions | 3 |
| Direction of action | Line-Line & Line-Earth Ground |

Protective circuit

| IFO (colodo e "Foot") | To. |
|--|----------------------------|
| IEC test classification | C1 |
| | C2 |
| | C3 |
| | D1 |
| Nominal voltage U _N | 24 V DC |
| Maximum continuous operating voltage U _C | 40 V DC |
| | 28 V AC |
| Maximum continuous voltage UC (wire-wire) | 40 V DC |
| | 28 V AC |
| Nominal current I _N | 450 mA (55°C) |
| Operating effective current I _C at U _C | ≤ 10 µA |
| Residual current I _{PE} | ≤ 2 µA |
| Nominal discharge current I _n (8/20) µs (Core-Core) | 10 kA |
| Nominal discharge current I _n (8/20) µs (Core-Earth) | 10 kA |
| Nominal discharge current I _n (8/20) µs (Shield-Earth) | 10 kA (optional) |
| Total surge current (8/20) µs | 20 kA |
| Total surge current (10/350) µs | 2 kA |
| Max. discharge current I _{max} (8/20) μs maximum (Core-Core) | 10 kA |
| Max. discharge current I _{max} (8/20) μs maximum (Core-Earth) | 10 kA |
| Max. discharge current I _{max} (8/20) μs maximum (Shield-Earth) | 10 kA |
| Nominal pulse current lan (10/1000) µs (Core-Core) | 23 A |
| Nominal pulse current lan (10/1000) µs (Core-Earth) | 100 A |
| Nominal pulse current lan (10/1000) µs (Shield-Earth) | 100 A |
| Impulse discharge current (10/350)#μs, peak value I _{imp} | 1 kA |
| Output voltage limitation at 1 kV/µs (Core-Core) spike | ≤ 55 V |
| Output voltage limitation at 1 kV/µs (Core-Earth) spike | ≤ 450 V (Direct grounding) |
| Output voltage limitation at 1 kV/µs (Shield-Earth) spike | ≤ 600 V (optional) |
| Output voltage limitation at 1 kV/µs (Core-Core) static | ≤ 55 V |
| Output voltage limitation at 1 kV/µs (Core-Earth) static | ≤ 450 V (Direct grounding) |
| Residual voltage at I _n , (conductor-conductor) | ≤ 55 V |



Technical data

Protective circuit

| Residual voltage with lan (10/1000)µs (conductor-conductor) | ≤ 65 V |
|---|--|
| Voltage protection level U _p (core-core) | ≤ 80 V (C2 -5 kA) |
| Voltage protection level U _p (core-ground) | ≤ 450 V (C2 -5 kA, direct grounding) |
| Voltage protection level U _p (shield-ground) | ≤ 600 V (C2 -5 kA optional) |
| Response time tA (Core-Core) | ≤ 1 ns |
| Response time tA (Core-Earth) | ≤ 100 ns |
| Response time tA (Shield-Earth) | ≤ 100 ns |
| Input attenuation aE, sym. | typ. 0.5 dB (≤ 1.5 MHz / 50 Ω) |
| | typ. 0.2 dB (≤ 300 kHz / 150 Ω) |
| Cut-off frequency fg (3 dB), sym. in 50 Ohm system | typ. 6 MHz |
| Cut-off frequency fg (3 dB), sym. in 150 Ohm system | typ. 2 MHz |
| Resistance in series | 2.2 Ω |
| Surge protection fault message | None |
| Max. required back-up fuse | 500 mA (e.g. T in acc. with IEC 127-2/III) |
| Impulse durability (conductor-conductor) | C2 - 10 kV/5 kA |
| Impulse durability (conductor-ground) | C2 - 10 kV/5 kA |
| Impulse durability (shield-ground) | C2 (10 kV/5 kA) |

Connection data

| Connection name | Input/output |
|--|-----------------------|
| Connection method | Screw connection |
| Connection type IN | Screw terminal blocks |
| Connection type OUT | Connection line |
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.6 Nm |
| Stripping length | 6 mm |
| Conductor cross section stranded min. | 0.14 mm² |
| Conductor cross section stranded max. | 1.5 mm² |
| Conductor cross section solid min. | 0.14 mm² |
| Conductor cross section solid max. | 1.5 mm² |
| Conductor cross section AWG/kcmil min. | 26 |
| Conductor cross section AWG/kcmil max | 16 |

Standards and Regulations

| Standards/regulations | IEC 61643-21 |
|-----------------------|--------------|



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 | 27130807 |
| eCl@ss 7.0 | 27130807 |
| eCl@ss 8.0 | 27130807 |

ETIM

| ETIM 2.0 | EC000943 |
|----------|----------|
| ETIM 3.0 | EC000943 |
| ETIM 4.0 | EC000943 |
| ETIM 5.0 | EC000943 |

UNSPSC

EAC

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

| Approvals |
|---------------------|
| Approvals |
| Approvals EAC |
| Ex Approvals |
| Approvals submitted |
| Approval details |

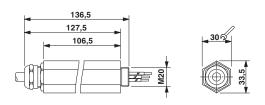


Drawings

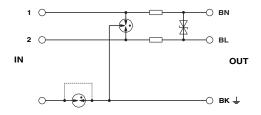
Product drawing

Dimensioned drawing





Circuit diagram



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