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Surge protection device - PT 2X1-VF-230AC - 2805460

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Rail-mountable surge arrester for higher signal voltages. Protective circuit free of leakage current for two floating signals.
Nominal voltage: 230 V AC

Illustration shows variant PT 2X1-VF-120AC

Product Features

- ✓ Plugs can be checked with CHECKMASTER
- ✓ Maximum ease of maintenance thanks to the two-piece design
- ✓ Base element remains an integral part of the installation
- ✓ Protective devices for use in telecommunications and signaling networks according to IEC 61643-21
- ✓ Consistent plug-in signal circuit protection
- ✓ Impedance-neutral disconnection of plug for test and maintenance purposes



Key commercial data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 72.0 GRM |
| Custom tariff number | 85363010 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|------------------------|---------|
| Height | 90 mm |
| Width | 17.7 mm |
| Depth | 65.5 mm |
| Horizontal pitch | 1 Div. |
| Complete module height | 90 mm |

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Dimensions

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

Ambient conditions

| | |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Degree of protection | IP20 |

General

| | |
|---|---|
| Housing material | PA 6.6 |
| Inflammability class according to UL 94 | V0 |
| Color | black |
| Mounting type | DIN rail: 35 mm |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 2 |
| Direction of action | Line-Line & Line-Earth Ground |

Protective circuit

| | |
|--|----------------------------|
| IEC test classification | C1 |
| | C2 |
| | C3 |
| | D1 |
| Nominal voltage U_N | 230 V AC |
| | 250 V AC |
| Maximum continuous voltage U_C (wire-ground) | 250 V AC |
| Nominal current I_N | 6 A |
| Operating effective current I_C at U_C | $\leq 2 \mu A$ |
| Residual current I_{PE} | $\leq 2 \mu A$ (at U_N) |
| Nominal discharge current I_n (8/20) μs | 3 kA |
| Nominal discharge current I_n (8/20) μs (Core-Earth) | 3 kA |
| Total surge current (8/20) μs | 8 kA |
| Total surge current (10/350) μs | 1 kA |
| Max. discharge current I_{max} (8/20) μs | 8 kA |
| Max. discharge current I_{max} (8/20) μs maximum (Core-Earth) | 8 kA |
| Nominal pulse current I_{an} (10/1000) μs (Core-Earth) | 100 A |
| Impulse discharge current (10/350) μs , peak value I_{imp} | 500 A |
| Output voltage limitation at 1 kV/ μs (Core-Earth) static | ≤ 1.4 kV |
| Residual voltage at I_n , (conductor-conductor) | ≤ 2 kV |
| Residual voltage at I_n , (conductor-ground) | ≤ 1 kV |

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Protective circuit

| | |
|--|--------------------------------|
| Residual voltage with I_{an} (10/1000) μ s (conductor-conductor) | ≤ 1.4 kV |
| Residual voltage with I_{an} (10/1000) μ s (conductor-ground) | ≤ 700 V |
| Energy absorption | 150 J |
| Voltage protection level U_p (Core-Core) | ≤ 2.5 kV (C2 (4 kV/2 kA)) |
| | ≤ 1.8 kV (C3 - 100 A) |
| | ≤ 2.6 kV (D1 - 500 A) |
| Voltage protection level U_p (Core-Earth) | ≤ 1.1 kV (C1 - 500 A) |
| | ≤ 1.5 kV (C2 (4 kV/2 kA)) |
| | ≤ 1.6 kV (C3 - 100 A) |
| | ≤ 1.8 kV (D1 - 500 A) |
| Response time t_A | ≤ 100 ns |
| Capacity (Core-Core) | typ. 4.5 pF |
| Capacity (Core-Earth) | typ. 9 pF |
| Resistance in series | 0 Ω |
| Surge protection fault message | None |
| Max. required back-up fuse | 6 A (gL / gG) |
| Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth) | C2 (4 kV / 2 kA) |
| | C3 (100 A) |
| | D1 (500 A) |

Connection data

| | |
|--|-----------------------|
| 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 |

Connection, equipotential bonding

| | |
|------------------------|------------------|
| Connection method | Screw connection |
| Tightening torque, min | 0.8 Nm |

Standards and Regulations

Surge protection device - PT 2X1-VF-230AC - 2805460

Technical data

Standards and Regulations

| | |
|-----------------------|-----------------|
| Standards/regulations | DIN EN 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

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

UNSPSC

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

Approvals

Approvals

Approvals

GOST

Ex Approvals

Approvals submitted

