

Type 2 surge protection plug - VAL-MS 75 VF ST - 2805318

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://phoenixcontact.com/download>)



Surge protection plug type 2 with series connection consisting of varistor and gas-filled spark gap for VAL-MS base element, thermal monitoring, visual fault warning.



Key commercial data

| | |
|--------------------------------------|----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 34.0 GRM |
| Custom tariff number | 85363030 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|------------------|---------|
| Height | 52.4 mm |
| Width | 17.5 mm |
| Depth | 55.3 mm |
| Horizontal pitch | 1 Div. |

Ambient conditions

| | |
|---|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | ≤ 2000 m (amsl (above mean sea level)) |
| Permissible humidity (operation) | 5 % ... 95 % |
| Shock (operation) | 25g |
| Vibration (operation) | 5g |

General

| | |
|--------------------------|-------------------|
| Standards/specifications | IEC 61643-11 2011 |
| | EN 61643-11 2012 |

Type 2 surge protection plug - VAL-MS 75 VF ST - 2805318

Technical data

General

| | |
|---|---|
| IEC test classification | II |
| | T2 |
| EN type | T2 |
| SPD design | Combination type |
| Mode of protection | L-PE |
| Mounting type | On base element |
| Color | black |
| Housing material | PA 6.6 |
| Pollution degree | 2 |
| Inflammability class according to UL 94 | V-0 |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 1 |
| Surge protection fault message | Optical |

Additional descriptions

| | |
|------|--|
| Note | The values specified for the L-L protective path are only valid in connection with VAL-MS/2+0-BE/FM/S2 |
|------|--|

Protective circuit

| | |
|--|------------------------------------|
| Nominal voltage U_N | 5 V AC ... 48 V AC |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U_C | 75 V AC |
| | 100 V DC |
| Residual current I_{PE} | $\leq 5 \mu A$ |
| Standby power consumption P_C | $\leq 1 \text{ mVA}$ |
| Nominal discharge current I_n (8/20) μs | 10 kA |
| Nominal discharge current I_n (8/20) μs (L-L) | 10 kA |
| Maximum discharge current I_{max} (8/20) μs | 20 kA |
| Maximum discharge current I_{max} (8/20) μs (L-L) | 20 kA |
| Short-circuit current rating I_{SCCR} | 10 kA |
| Voltage protection level U_p | $\leq 1.4 \text{ kV}$ |
| Voltage protection level U_p (L-L) | $\leq 1.8 \text{ kV}$ |
| Residual voltage U_{res} | $\leq 0.45 \text{ kV}$ (at I_n) |
| | $\leq 0.35 \text{ kV}$ (at 5 kA) |
| | $\leq 0.3 \text{ kV}$ (at 3 kA) |
| Residual voltage U_{res} (L-L) | $\leq 0.9 \text{ kV}$ (at I_n) |
| | $\leq 0.7 \text{ kV}$ (at 5 kA) |
| | $\leq 0.6 \text{ kV}$ (at 3 kA) |

Type 2 surge protection plug - VAL-MS 75 VF ST - 2805318

Technical data

Protective circuit

| | |
|--|---------------|
| Front of wave sparkover voltage at 6 kV (1.2/50) μ s | ≤ 1.4 kV |
| Front of wave sparkover voltage at 6 kV (1.2/50) μ s (L-L) | ≤ 1.8 kV |
| Response time t_A | ≤ 100 ns |
| Response time t_A (L-L) | ≤ 100 ns |
| Max. backup fuse with branch wiring | 63 A AC (gG) |

Connection data

| | |
|-------------------|--------------------------|
| Connection method | VALVETRAB plug-in system |
|-------------------|--------------------------|

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 | 27130805 |
| eCl@ss 7.0 | 27130805 |
| eCl@ss 8.0 | 27130805 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000941 |
| ETIM 3.0 | EC000941 |
| ETIM 4.0 | EC000941 |
| ETIM 5.0 | EC000941 |

UNSPSC

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

Approvals

Approvals

Type 2 surge protection plug - VAL-MS 75 VF ST - 2805318

Approvals

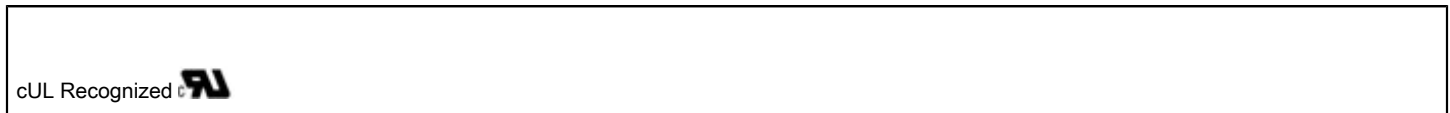
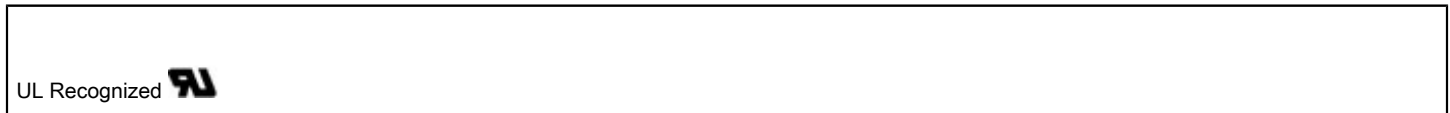
Approvals

GOST / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

Approval details



Drawings

Circuit diagram



Dimensioned drawing

