

Type 2 surge protection plug - VAL-US-240D/40-P - 2910337

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Type 2 surge protection plug with a varistor for VAL-MS base element, thermal monitoring, visual fault warning. Design: 750 V AC

Why buy this product

- ✓ Plugs can be checked with CHECKMASTER
- ✓ Thermal disconnect device for each individual plug
- ✓ Pluggable
- ✓ Mechanical coding of all slots
- ✓ Consists of base element and plug
- ✓ Optical, mechanical status indication for the individual arresters



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 055626 444499 |
| GTIN | 4055626444499 |

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)) |

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Ambient conditions

| | |
|----------------------------------|---|
| Permissible humidity (operation) | 5 % ... 95 % |
| Shock (operation) | 25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z) |
| Vibration (operation) | 5g (10 ... 500 Hz / 2.5 h / X, Y, Z) |

General

| | |
|--|--------------------|
| IEC test classification | II |
| | T2 |
| EN type | T2 |
| Mode of protection | L-L |
| | L-PEN |
| Mounting type | on base element |
| Color | jet black RAL 9005 |
| Housing material | PA 6.6 |
| | PBT |
| Degree of pollution | 2 |
| Flammability rating according to UL 94 | V-0 |
| Type | Male |
| Number of positions | 1 |
| Surge protection fault message | optical |

Protective circuit

| | |
|---|--|
| Nominal voltage U_N | 240/415 V AC (TN) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous voltage U_C | 275 V AC |
| Residual current I_{PE} | ≤ 450 µA |
| Standby power consumption P_C | ≤ 120 mVA |
| Nominal discharge current I_n (8/20) µs | 20 kA |
| Maximum discharge current I_{max} (8/20) µs | 40 kA |
| Short-circuit current rating I_{SCCR} | 25 kA |
| Voltage protection level U_p | ≤ 1.35 kV |
| Residual voltage U_{res} | ≤ 1.35 kV (at I_n) |
| | ≤ 1.1 kV (at 10 kA) |
| | ≤ 1 kV (at 5 kA) |
| | ≤ 0.9 kV (at 3 kA) |
| TOV behavior at U_T | 335 V AC (5 s / withstand mode) |
| | 440 V AC (120 min / safe failure mode) |
| Max. backup fuse with branch wiring | 100 A (gG) |

Connection data

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

UL specifications

Type 2 surge protection plug - VAL-US-240D/40-P - 2910337

Technical data

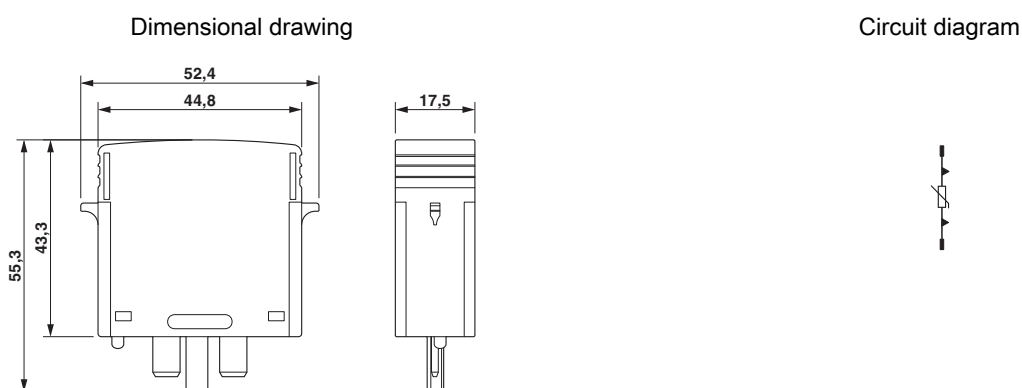
UL specifications

| | |
|---|------------------|
| SPD Type | 1CA |
| Maximum continuous operating voltage MCOV | 275 V AC |
| Nom. voltage | 240 V AC (Delta) |
| Mode of protection | L-L |
| | L-G |
| Power distribution system | 1 |
| Nominal frequency | 50/60 Hz |
| Voltage protection rating VPR | 1000 V |
| Nominal discharge current I_n | 20 kA |
| Maximum Surge Current per Phase | 40 kA |
| Short-circuit current rating (SCCR) | 200 kA |

Standards and Regulations

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

Drawings



Approvals

Approvals

Approvals


UL Recognized / cUL Recognized / cULus Recognized


Ex Approvals


Approval details

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Approvals

| | | | |
|---------------|---|---|---------------|
| UL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 330181 |
|---------------|---|---|---------------|

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|----------------|---|---|---------------|
| cUL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 330181 |
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| cULus Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | |
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