

VAL-US-240D/40-P - Type 1 surge protection plug



2910337

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UL Recognized type 1 SPD and IEC type 2 surge protection plug with a varistor and thermal disconnect for use with VAL-US base elements, mechanical and visual fault warning

Product description

Surge protective device replacement plug

Your advantages

- Thermal disconnect device for each individual plug
- Optical, mechanical status indication for the individual arresters
- Pluggable
- Mechanical coding of all slots
- Consists of base element and plug

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2910337 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL18 |
| Product key | CL1321 |
| GTIN | 4055626444499 |
| Weight per piece (including packing) | 44.5 g |
| Weight per piece (excluding packing) | 33 g |
| Customs tariff number | 85363030 |
| Country of origin | DE |

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Technical data

Notes

| | |
|---------|---|
| General | Used in: |
| General | |
| Note | For use in all low-voltage systems between L-PEN. Only for use in IT systems between L-PE if the exposed conductive parts of the equipment of the low-voltage electrical installation are connected to the grounding system of the transformer station (common grounding of the HV transformer station and the exposed conductive part of the LV load system). RE = RA according to VDE 0100-442:2013, Figure 44.A1 and Table 44.A1 |

Product properties

| | |
|--------------------------------|------------------|
| Product type | Replacement plug |
| Product family | VALVETRAB MS |
| IEC test classification | II |
| EN type | T2 |
| Type | Male |
| Number of positions | 1 |
| Surge protection fault message | optical |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree | 2 |

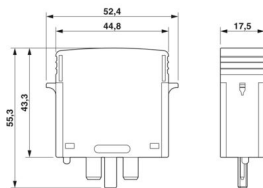
Electrical properties

| | |
|-------------------------|---------------|
| Nominal frequency f_N | 50 Hz (60 Hz) |
|-------------------------|---------------|

Connection data

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

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 17.5 mm |
| Height | 52.4 mm |
| Depth | 55.3 mm |

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| | |
|------------------|--------|
| Horizontal pitch | 1 Div. |
|------------------|--------|

Material specifications

| | |
|--|------------------|
| Color | black (RAL 9005) |
| Flammability rating according to UL 94 | V-0 |
| CTI value of material | 600 |
| Insulating material | PA 6.6/PBT |
| Material group | I |
| Housing material | PA 6.6 PBT |

Protective circuit

| | |
|--|--|
| Mode of protection | L-PEN |
| Direction of action | 1L-N/PE |
| Nominal voltage U_N | 240/415 V AC (TN-C) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U_C | 275 V AC |
| Protective conductor current I_{PE} | $\leq 450 \mu\text{A}$ |
| Standby power consumption P_C | $\leq 120 \text{ mVA}$ |
| 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 | $\leq 1.35 \text{ kV}$ |
| Residual voltage U_{res} | $\leq 1.35 \text{ kV}$ (at I_n) $\leq 1.1 \text{ kV}$ (at 10 kA) $\leq 1 \text{ kV}$ (at 5 kA) $\leq 0.9 \text{ kV}$ (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) |

Additional technical data

| | |
|--|-------|
| Maximum discharge current I_{max} (8/20) μs | 40 kA |
|--|-------|

Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | $\leq 2000 \text{ m}$ (amsl) |
| Permissible humidity (operation) | 5 % ... 95 % |
| Shock (operation) | 25g (Half-sine / 11 ms / 3x $\pm X$, $\pm Y$, $\pm Z$) |
| Vibration (operation) | 5g (10 ... 500 Hz / 2.5 h / X, Y, Z) |

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Approvals

UL specifications

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

Standards and regulations

Air clearances and creepage distances

| | |
|--------------------------|--------------------------|
| Standards/regulations | EN 60664-1 / EN 61643-11 |
| Standards/specifications | IEC 61643-11 |
| Note | 2011 |
| Standards/specifications | EN 61643-11 |
| Note | 2012 |

Mounting

| | |
|---------------|-----------------|
| Mounting type | on base element |
|---------------|-----------------|

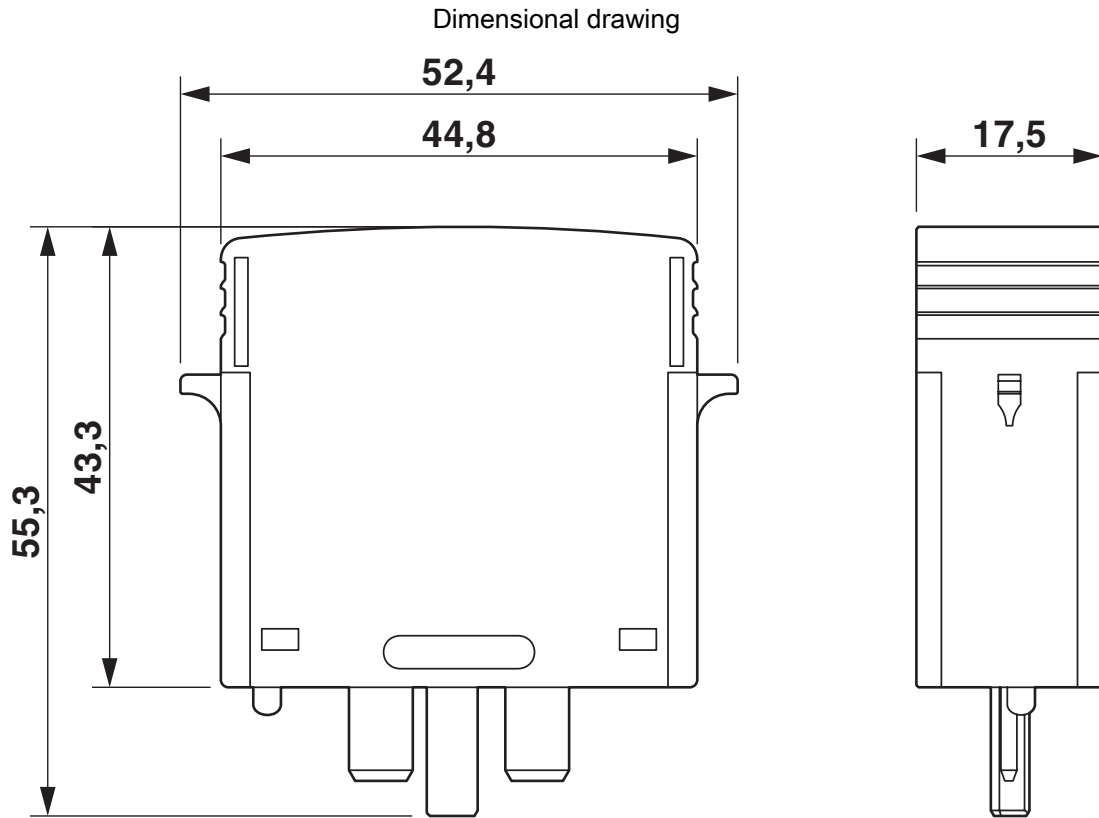
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Drawings



Circuit diagram



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Approvals

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27171292 |
| ECLASS-15.0 | 27171292 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002496 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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