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

Product description

Surge protective device replacement plug

Commercial data

| | |
|--------------------------------------|--------------------|
| Item number | 2910332 |
| Packing unit | 1 pc |
| Sales key | CL18 |
| Product key | CL1151 |
| Catalog page | Page 93 (C-4-2019) |
| GTIN | 4055626445328 |
| Weight per piece (including packing) | 78.2 g |
| Weight per piece (excluding packing) | 36 g |
| Customs tariff number | 85363030 |
| Country of origin | DE |

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

<https://www.phoenixcontact.com/us/products/2910332>

Technical data

Notes

| | |
|---------|----------|
| General | Used in: |
|---------|----------|

Product properties

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

Insulation characteristics

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

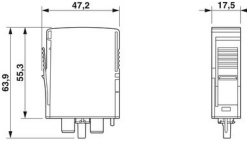
Electrical properties

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

Connection data

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

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 17.7 mm |
| Height | 47 mm |
| Depth | 67.3 mm |
| Horizontal pitch | 1 Div. |

Material specifications

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

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Protective circuit

| | |
|--|---|
| Mode of protection | N-PE |
| Direction of action | N-PE |
| Nominal voltage U_N | 240/415 V AC (TN-S) 240/415 V AC (TT) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous voltage U_C | 264 V AC |
| Residual current I_{PE} | $\leq 5 \mu A$ |
| Standby power consumption P_C | $\leq 1.3 \text{ mVA}$ |
| Nominal discharge current I_n (8/20) μs | 50 kA |
| Maximum discharge current I_{max} (8/20) μs | 50 kA |
| Follow current interrupt rating I_{fi} | 100 A (260 V) |
| Voltage protection level U_p | $\leq 1.7 \text{ kV}$ |
| Residual voltage U_{res} | $\leq 0.6 \text{ kV}$ (at I_n) $\leq 0.5 \text{ kV}$ (at 10 kA) $\leq 0.5 \text{ kV}$ (at 5 kA) $\leq 0.4 \text{ kV}$ (at 3 kA) |
| Front of wave sparkover voltage at 6 kV (1.2/50) μs | $\leq 1.7 \text{ kV}$ |
| TOV behavior at U_T | 1200 V AC (200 ms / withstand mode) |
| Response time t_A | $\leq 100 \text{ ns}$ |

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) | 30g (Half-sine / 11 ms / 3x $\pm X$, $\pm Y$, $\pm Z$) |
| Vibration (operation) | 7.5g (10 ... 500 Hz / 2.5 h / X, Y, Z) |

Approvals

UL specifications

| | |
|---|--------------|
| Maximum continuous operating voltage MCOV | 264 V AC |
| Voltage protection rating VPR | 1200 V |
| UL type | type 1 |
| Nominal discharge current I_n | 20 kA |
| Maximum Surge Current per Phase | 80 kA |
| Mode of protection | N-G |
| Nominal voltage | 240 V AC |
| Power distribution system | Single phase |
| Nominal frequency | 50/60 Hz |

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| | |
|----------|-----|
| SPD Type | 1CA |
|----------|-----|

Standards and regulations

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

Mounting

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

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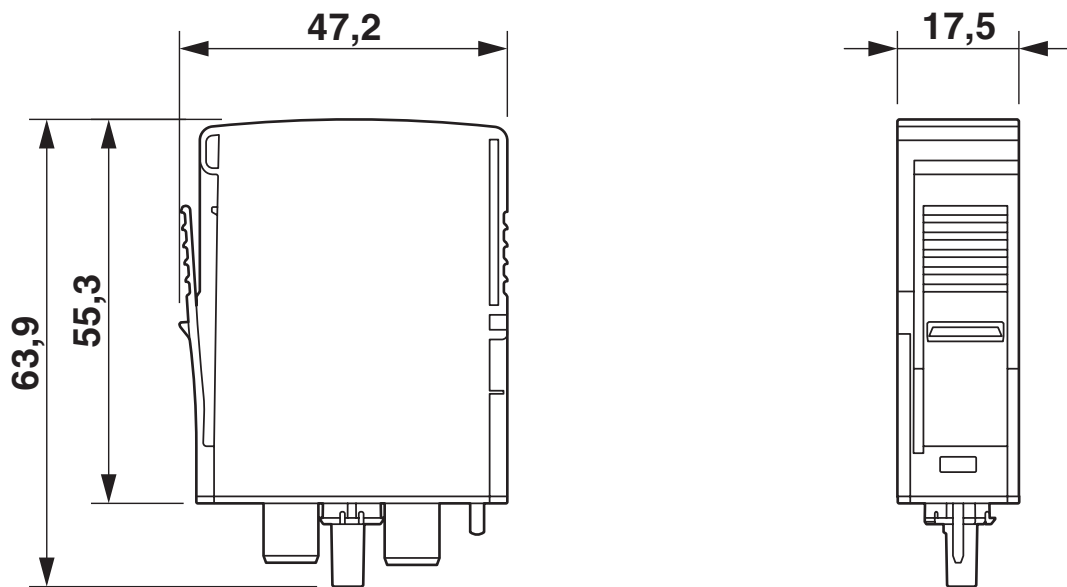
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2910332>



cUL Recognized

Approval ID: FILE E 330181



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27130890 |
| ECLASS-13.0 | 27171292 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC002496 |
|----------|----------|

UNSPSC

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

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Environmental product compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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Accessories

VAL-US-120/65/1+1-FM - Type 1 surge protection device

2910356

<https://www.phoenixcontact.com/us/products/2910356>



Surge protective device, two channel with remote indicator contact for 120 V AC, 2-wire plus ground.

VAL-US-120/65/2+1-FM - Type 1 surge protection device

2910358

<https://www.phoenixcontact.com/us/products/2910358>



Surge protective device, three channel with remote indicator contact for 120/240 V split phase AC, 3-wire plus ground.

GDT-US-NG/80-P - Type 1 surge protection plug

2910332

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VAL-US-120/65/3+1-FM - Type 1 surge protection device

2910360

<https://www.phoenixcontact.com/us/products/2910360>



Surge protective device, four channel with remote indicator contact for 120/208 V
Wye three phase AC, 4-wire plus ground.

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