

# Type 1 surge protection plug - GDT-US-NG/80-P - 2910332

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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

### Your advantages

- 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         | <br>4 055626 445328 |
| GTIN         | 4055626445328   |

## Technical data

### Dimensions

|                  |         |
|------------------|---------|
| Height           | 47 mm   |
| Width            | 17.7 mm |
| Depth            | 67.3 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 |

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## Technical data

### Ambient conditions

|                                  |   |
|----------------------------------|---|
| Altitude                         | ≤ 2000 m (amsl (above mean sea level))  |
| Permissible humidity (operation) | 5 % ... 95 %                            |
| Shock (operation)                | 30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z) |
| Vibration (operation)            | 7.5g (10 ... 500 Hz / 2.5 h / X, Y, Z)  |

### General

|  |                    |
|--|--------------------|
| IEC test classification                | II                 |
|  | T2                 |
| EN type                                | T2                 |
| Mode of protection                     | N-PE               |
| 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-S)                 |
|   | 240/415 V AC (TT)                   |
| Nominal frequency $f_N$                             | 50 Hz (60 Hz)                       |
| Maximum continuous voltage $U_C$                    | 264 V AC                            |
| Residual current $I_{PE}$                           | ≤ 5 μA                              |
| Standby power consumption $P_C$                     | ≤ 1.3 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 $U_p$                      | ≤ 1.7 kV                            |
| Residual voltage $U_{res}$                          | ≤ 0.6 kV (at $I_n$ )                |
|   | ≤ 0.5 kV (at 10 kA)                 |
|   | ≤ 0.5 kV (at 5 kA)                  |
|   | ≤ 0.4 kV (at 3 kA)                  |
| Front of wave sparkover voltage at 6 kV (1.2/50) μs | ≤ 1.7 kV                            |
| TOV behavior at $U_T$                               | 1200 V AC (200 ms / withstand mode) |
| Response time $t_A$                                 | ≤ 100 ns                            |

### Connection data

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

## Type 1 surge protection plug - GDT-US-NG/80-P - 2910332

### Technical data

#### UL specifications

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

#### Standards and Regulations

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

### Drawings

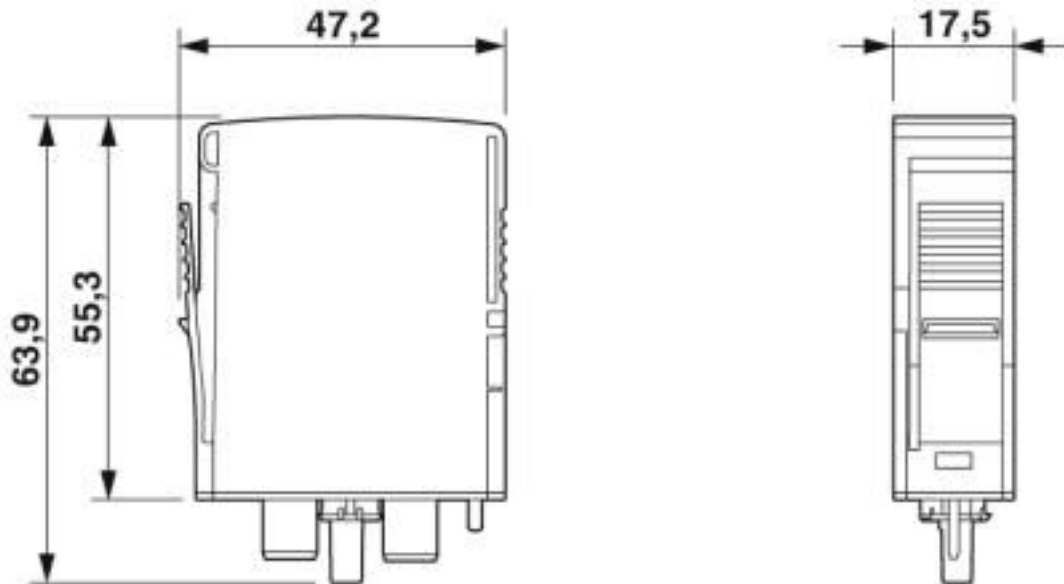
# Type 1 surge protection plug - GDT-US-NG/80-P - 2910332

Circuit diagram



# Type 1 surge protection plug - GDT-US-NG/80-P - 2910332

Dimensional drawing



## Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27130890 |
| eCl@ss 6.0    | 27130800 |
| eCl@ss 7.0    | 27130890 |
| eCl@ss 8.0    | 27130890 |
| eCl@ss 9.0    | 27130890 |

ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC002496 |
| ETIM 6.0 | EC002497 |
| ETIM 7.0 | EC002497 |

## Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

# Type 1 surge protection plug - GDT-US-NG/80-P - 2910332

## Approvals

|               |  |   |               |
|---------------|--|---|---------------|
| UL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 330181 |
|---------------|--|---|---------------|

|                |  |   |               |
|----------------|--|---|---------------|
| cUL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 330181 |
|----------------|--|---|---------------|

|                  |  |  |  |
|------------------|--|--|--|
| cULus Recognized |  |  |  |
|------------------|--|--|--|

## Accessories

### Accessories

#### Surge arrester

Type 1 surge protection device - VAL-US-120/65/1+1-FM - 2910356



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

Type 1 surge protection device - VAL-US-120/65/2+1-FM - 2910358



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

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