

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

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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  |

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## 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) $\mu s$           | 10 kA                              |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (L-L)     | 10 kA                              |
| Maximum discharge current $I_{max}$ (8/20) $\mu s$       | 20 kA                              |
| Maximum discharge current $I_{max}$ (8/20) $\mu s$ (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)    |

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#### Protective circuit

|                                                                |               |
|----------------------------------------------------------------|---------------|
| Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s       | $\leq 1.4$ kV |
| Front of wave sparkover voltage at 6 kV (1.2/50) $\mu$ s (L-L) | $\leq 1.8$ kV |
| Response time $t_A$                                            | $\leq 100$ ns |
| Response time $t_A$ (L-L)                                      | $\leq 100$ 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

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### Approvals

Approvals

GOST / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approvals submitted

### Approval details

GOST 

UL Recognized 

cUL Recognized 

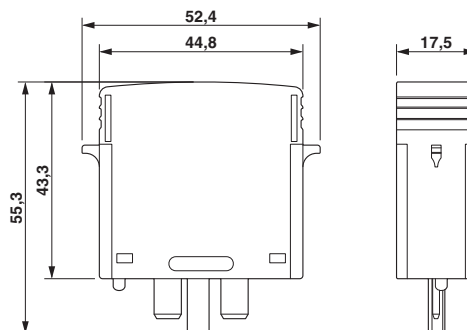
cULus Recognized 

### Drawings

Circuit diagram



Dimensioned drawing





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