

Type 1/2 surge protection plug - F-MS-T1/T2 50 ST - 2800191

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N-PE replacement plug for VAL-MS-T1/T2 335/12.5 plug-in lighting/surge arrester.

Your advantages

- ✓ Plugs can be checked with CHECKMASTER
- ✓ Secure hold of plugs in the event of high lightning current loads and strong vibrations thanks to new latching
- ✓ Thermal disconnect device for each individual plug
- ✓ Pluggable
- ✓ Thermal disconnect device for each individual plug
- ✓ Mechanical coding of all slots

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 10 pc |
| GTIN |  4 046356 518628 |
| GTIN | 4046356518628 |

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 |
| Altitude | ≤ 2000 m (amsl (above mean sea level)) |
| Permissible humidity (operation) | 5 % ... 95 % |

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Ambient conditions

| | |
|-----------------------|---|
| 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 | I / II |
| | T1 / T2 |
| | T1 |
| EN type | T1 / T2 |
| | T1 |
| IEC power supply system | TT |
| | TN-S |
| 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 | DIN rail module, two-section, divisible |
| Surge protection fault message | optical |

Protective circuit

| | |
|---|-------------------------------------|
| 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 |
| Impulse discharge current (10/350) μs , charge | 25 As |
| Impulse discharge current (10/350) μs , specific energy | 625 kJ/ Ω |
| Impulse discharge current (10/350) μs , peak value I_{imp} | 50 kA |
| Follow current interrupt rating I_{fi} | 100 A (264 V AC) |
| 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 | $\leq 100 \text{ ns}$ |

Connection data

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Connection data

| | |
|-------------------|-----------|
| Connection method | pluggable |
|-------------------|-----------|

UL specifications

| | |
|---|--------------|
| SPD Type | 4CA |
| Maximum continuous operating voltage MCOV (N-G) | 264 V AC |
| Mode of protection | N-G |
| Power distribution system | Single phase |
| Measured limiting voltage MLV (N-G) | 2600 V |
| Nominal discharge current I _n (N-G) | 20 kA |

Standards and Regulations

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

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Approvals

Approvals

Approvals

DNV GL / CCA / UL Recognized / KEMA-KEUR / cUL Recognized / IECEE CB Scheme / ÖVE / EAC / cULus Recognized

Ex Approvals

Approval details







| | | | |
|--------|--|---|------------|
| DNV GL | | https://approvalfinder.dnvgl.com/ | TAE00001N9 |
|--------|--|---|------------|

| | | | |
|-----|--|--|-------------|
| CCA | | | NTR-AT 1906 |
|-----|--|--|-------------|

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

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Approvals

| | | | |
|------------------|---|---|-------------------------|
| KEMA-KEUR |  | http://www.dekra-certification.com | 2162496-01 |
| cUL Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 330181 |
| IECEE CB Scheme |  | http://www.iecee.org/ | AT 2584 |
| ÖVE |  | https://www.ove.at/zertifizierung-pz/zertifizierungsregister/ | 18583-009-06 |
| EAC |  | | RU C- DE.A*30.B01561 |
| cULus Recognized |  | | |

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