

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




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 % |

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

Technical data

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 |
| 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} | $\leq 5 \mu A$ |
| 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 | $\leq 1.7 \text{ kV}$ |

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

Technical data

Protective circuit

| | |
|-----------------------|-------------------------------------|
| TOV behavior at U_T | 1200 V AC (200 ms / withstand mode) |
| Response time t_A | ≤ 100 ns |

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 |
| Nominal frequency | 50/60 Hz |
| 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 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

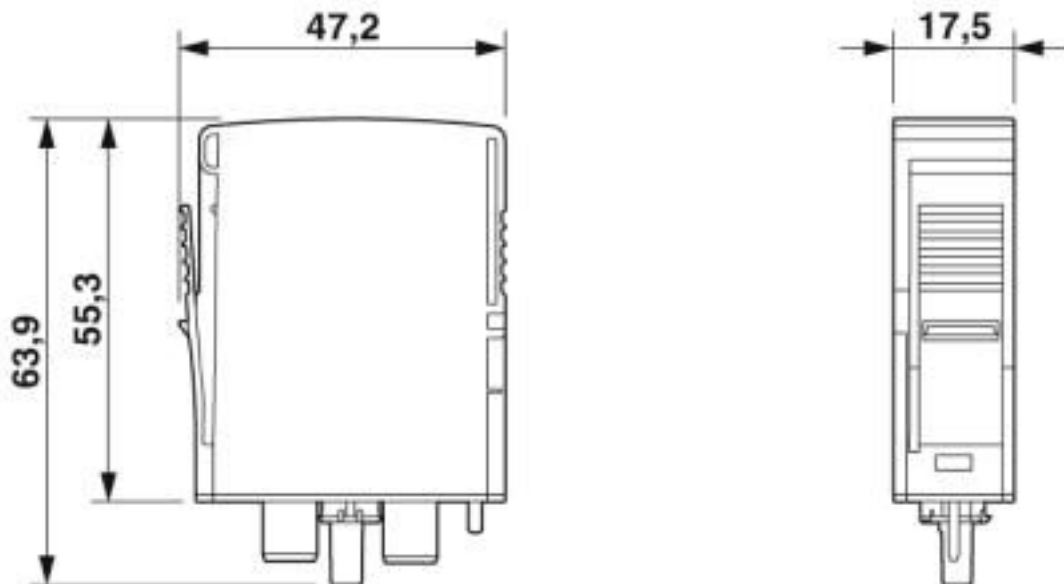
Type 1/2 surge protection plug - F-MS-T1/T2 50 ST - 2800191

Circuit diagram



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

Dimensional drawing



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27130890 |
| eCl@ss 4.0 | 27130800 |
| eCl@ss 4.1 | 27130800 |
| eCl@ss 5.0 | 27130800 |
| eCl@ss 5.1 | 27130800 |
| eCl@ss 6.0 | 27130800 |
| eCl@ss 7.0 | 27130802 |
| eCl@ss 8.0 | 27130890 |
| eCl@ss 9.0 | 27130890 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000941 |
| ETIM 3.0 | EC000941 |
| ETIM 4.0 | EC000381 |
| ETIM 5.0 | EC002496 |
| ETIM 6.0 | EC000381 |
| ETIM 7.0 | EC000381 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30212010 |
| UNSPSC 7.0901 | 39121610 |
| UNSPSC 11 | 39121610 |
| UNSPSC 12.01 | 39121610 |

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

Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 39121620 |
| UNSPSC 18.0 | 39121620 |
| UNSPSC 19.0 | 39121620 |
| UNSPSC 20.0 | 39121620 |
| UNSPSC 21.0 | 39121620 |

Approvals

Approvals

Approvals


DNV GL / CCA / UL Recognized / KEMA-KEUR / cUL Recognized / IECCEB 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 |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

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

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

Approvals

| | | | |
|-----|--|-------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| ÖVE | | https://www.ove.at/zertifizierung-pz/zertifizierungsregister/ | 18583-009-07 |
|-----|--|-------------------------------------------------------------------------------------------------------------------------------------------|--------------|

| | | | |
|-----|--|--|-------------------------|
| EAC | | | RU C- DE.*09.B.00169 |
|-----|--|--|-------------------------|

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

Accessories

Accessories

Bridge

Wiring bridge end cover - MPB 18/3- D - 2809322



End cover for lateral connection of wiring bridges, 3-phase

Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

Feed-through terminal block

Feed-through terminal block - DK-BIC-35 - 2749880



Feed-through terminal block for VAL and FLT applications

Labeled device marker

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

Accessories

Marker for terminal blocks - ZBN 18,LGS:ERDE - 2749589



Marker for terminal blocks, Strip, white, labeled, horizontal: Grounding symbol, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

Marker for terminal blocks - ZBN 18,LGS:L1-N,ERDE - 2749576



Marker for terminal blocks, Strip, white, labeled, horizontal: L1, L2, L3, N, GND, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Phoenix Contact 2020 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Surge Suppressors](#) category:

Click to view products by [Phoenix Contact](#) manufacturer:

Other Similar products are found below :

[GUS1](#) [GUS12](#) [BSPM1A600D600LVR](#) [2800521](#) [29-2053](#) [GUS11](#) [GUS2](#) [GUS3](#) [30460](#) [SRA64C060X](#) [PC642C015](#) [1810-15-A3](#) [2713175](#)
[4B06B-EC1-150LF](#) [SRA6LC](#) [BPMA75D100LV](#) [CX06M](#) [CCTV1](#) [GUS13](#) [GUS14](#) [GUS5](#) [GUS6](#) [VAL-MS 320/3+0-FM](#) [VAL-US-](#)
[120/40/1+1-FM](#) [VAL-US-120/65/1+1-FM](#) [VAL-US-480D/30/3+0-FM](#) [VAL-US-120/40/1+0-FM](#) [LP-BFDN-CW](#) [LP-STRL-NFF](#) [LP-STRL-](#)
[DFF](#) [GUS22](#) [0804111](#) [5053609](#) [5053201](#) [SPD2-150-1P0](#) [SPD2-550-1P0](#) [6720005416](#) [6720005417](#) [1-2191595-2](#) [STC-CAT6-P0E-I](#) [SPD2-](#)
[350-1P0](#) [FLT-CP-350-ST](#) [TTC-6P-3-HF-F-M-12DC-UT-I](#) [SMTPA200](#) [2800989](#) [2906776](#) [2906810](#) [2906847](#) [2906848](#) [2906851](#)