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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Type 2 surge protection plug - F-MS 2200/30 ST - 2805392

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Surge protection plug type 2, spark gap with high insulation voltage strength, used only as replacement plug for the corresponding complete item.



Key commercial data

| | |
|------------------------|----------|
| Packing unit | 1 pc |
| Minimum order quantity | 10 pc |
| Custom tariff number | 85363010 |
| 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 | Voltage-switching type |
| Mode of protection | L-PE |
| Mounting type | On base element |
| Color | black |
| Housing material | PA 6.6 |
| Pollution degree | 3 |
| Distance between live and grounded parts | 8 mm |
| 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 F-MS 2200/30 ST protective plug is only to be used in connection with VAL-MS 750/30 ST (2920256) in series connection. It is not designed to be directly used on the mains voltage. Replacement plugs for use on product VAL-MS 800/30-VF/FM (2805402). |
| | $V_{SDC} > 2200 \text{ V}$ |

Protective circuit

| | |
|--|-------------------------------------|
| Nominal frequency f_N | 50 Hz |
| | 60 Hz |
| Residual current I_{PE} | $\leq 3 \mu\text{A}$ |
| Nominal discharge current I_n (8/20) μs | 15 kA |
| Maximum discharge current I_{max} (8/20) μs | 30 kA |
| Short-circuit current rating I_{SCCR} | 25 kA |
| Voltage protection level U_p | $\leq 5 \text{ kV}$ |
| Residual voltage U_{res} | $\leq 0.4 \text{ kV}$ (at I_n) |
| | $\leq 0.25 \text{ kV}$ (at 10 kA) |
| | $\leq 0.15 \text{ kV}$ (at 5 kA) |
| | $\leq 0.1 \text{ kV}$ (at 3 kA) |
| Front of wave sparkover voltage at 6 kV (1.2/50) μs | $\leq 5 \text{ kV}$ |
| TOV behavior at U_T | 1550 V AC (200 ms / withstand mode) |
| Response time t_A | $\leq 100 \text{ ns}$ |

Connection data

Type 2 surge protection plug - F-MS 2200/30 ST - 2805392

Technical data

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

Approvals

KEMA-KEUR / ÖVE / GOST / GL / CCA / IECCEB Scheme / KEMA-KEUR / ÖVE

Ex Approvals

Approvals submitted

Type 2 surge protection plug - F-MS 2200/30 ST - 2805392

Approvals

Approval details


KEMA-KEUR 

ÖVE 

GOST 

GL

CCA

IECEE CB Scheme 

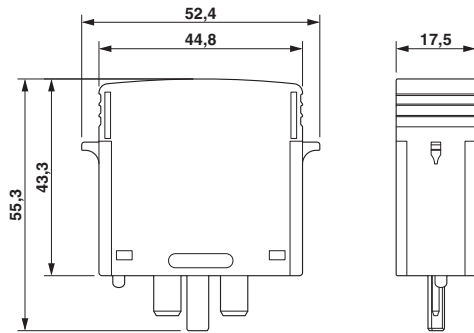
KEMA-KEUR 

ÖVE 

Drawings

Type 2 surge protection plug - F-MS 2200/30 ST - 2805392

Dimensioned drawing



Circuit diagram

