

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



2805392

<https://www.phoenixcontact.com/us/products/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.

## Commercial data

Item number	2805392
Packing unit	10 pc
Minimum order quantity	10 pc
Note	Made to order (non-returnable)
Sales key	CL18
Product key	CL1321
Catalog page	Page 65 (C-4-2019)
GTIN	4046356446419
Weight per piece (including packing)	37.2 g
Weight per piece (excluding packing)	37.2 g
Customs tariff number	85363010
Country of origin	DE

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## Technical data

### Notes

#### General

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). $V_{SDC} > 2500 \text{ V}$
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### Product properties

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN
	TT
Type	DIN rail module, two-section, divisible
Distance between live and grounded parts	8 mm
Product type	Replacement plug
Product family	VALVETRAB MS
Number of positions	1
Surge protection fault message	optical

#### Insulation characteristics

Overvoltage category	IV
Pollution degree	3

### Electrical properties

Nominal frequency $f_N$	50 Hz
	60 Hz

### Connection data

Connection method	pluggable
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### Dimensions

Dimensional drawing	
Width	17.5 mm
Height	52.4 mm
Depth	55.3 mm

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Horizontal pitch	1 Div.
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## Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6
Material group	I
Housing material	PA 6.6

## Protective circuit

Mode of protection	L-PE
Direction of action	N-PE
Nominal frequency $f_N$	50 Hz 60 Hz
Residual current $I_{PE}$	$\leq 3 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	15 kA
Maximum discharge current $I_{max}$ (8/20) $\mu\text{s}$	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) $\mu\text{s}$	$\leq 5 \text{ kV}$
TOV behavior at $U_T$	1550 V AC (200 ms / withstand mode)
Response time $t_A$	$\leq 100 \text{ ns}$

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	$\leq 2000 \text{ m}$ (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	25g
Vibration (operation)	5g

## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	EN 60664-1 / EN 61643-11
Standards/specifications	IEC 61643-11
Note	2011

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Standards/specifications	EN 61643-11
Note	2012

## Mounting

Mounting type	on base element
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## Classifications

### ECLASS

ECLASS-11.0	27130890
ECLASS-13.0	27171292

### ETIM

ETIM 9.0	EC002496
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e No hazardous substances above threshold values
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