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

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
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

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).
	U_{agn} ≥ 2500 V

Product properties

Product type	Replacement plug
Product family	VALVETRAB MS
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
Number of positions	1
Surge protection fault message	optical

Insulation characteristics

Overvoltage category	IV
Pollution degree	3

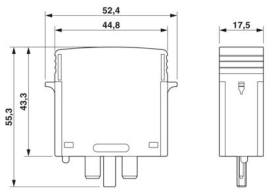
Electrical properties

Nominal frequency f_N	50 Hz
	60 Hz

Connection data

Connection method	pluggable

Dimensions

Dimensional drawing	
Width	17.5 mm
Height	52.4 mm
Depth	55.3 mm

Horizontal pitch	1 HP

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
Protective conductor current I_{PE}	≤ 3 µA
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	≤ 5 kV
Residual voltage U_{res}	≤ 0.4 kV (at I_n)
	≤ 0.25 kV (at 10 kA)
	≤ 0.15 kV (at 5 kA)
	≤ 0.1 kV (at 3 kA)
Front-of-wave sparkover voltage at 6 kV (1.2/50) µs	≤ 5 kV
TOV behavior at U_T	1550 V AC (200 ms / withstand mode)
Response time t_A	≤ 100 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	≤ 2000 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

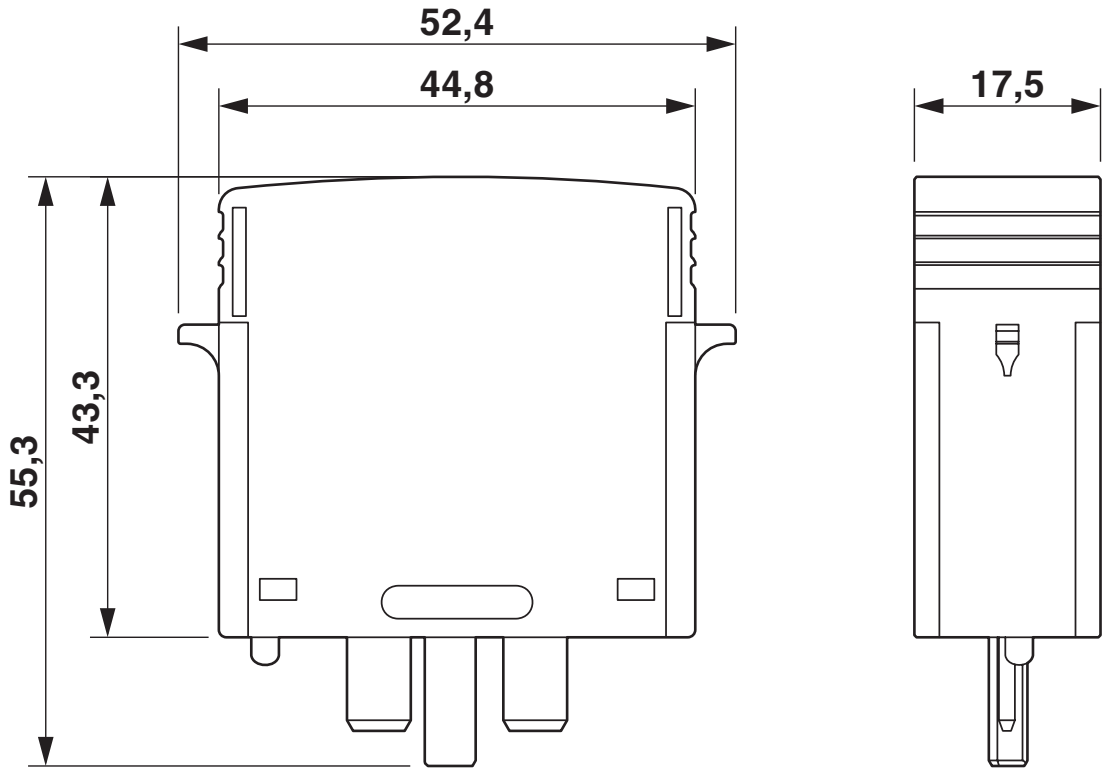
Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	on base element

Drawings

Dimensional drawing



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2805392

IECEE CB Scheme
Approval ID: AT 2905/M1

CCA
Approval ID: NTR-AT 1947-A

KEMA-KEUR
Approval ID: 71-148002

DNV GL
Approval ID: TAE000041M

ÖVE
Approval ID: 18583-001-17

ÖVE
Approval ID: 18583-001-18

Classifications

ECLASS

ECLASS-13.0	27171292
ECLASS-15.0	27171292

ETIM

ETIM 10.0	EC002496

UNSPSC

UNSPSC 21.0	39121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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