

EMC filter surge protection device - SFP 1-20/230AC - 2859987

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



Device protection, according to type 3/class III, with network interference suppression filter to prevent high-frequency interference voltages, for 1-phase power supply networks with separate N and PE (3-conductor system: L1, N, PE), with remote indication contact.

Product Description

Device protection with interference filter

Product Features

- Can be installed in industrial environments
- Combined protective circuit for absorbing transient surge voltages and high-frequency interference voltages
- Thermal monitoring of the protective circuit
- Disconnection status signaled via floating remote indication contact
- Integrated power display switches off automatically when there is a malfunction due to overload.



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	623.4 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	93 mm
Width	112 mm
Depth	79 mm

Ambient conditions

Ambient temperature (storage/transport)	-25 °C ... 70 °C
Ambient temperature (operation)	-25 °C ... 70 °C

EMC filter surge protection device - SFP 1-20/230AC - 2859987

Technical data

General

Housing material	Aluminum
Flammability rating according to UL 94	V-0
Color	black
	silver
Standards for clearances and creepage distances	DIN VDE 0110-1
	IEC 60664-1
	IEC 61643-1
Type	Rail-mountable module, one-piece
Mounting type	DIN rail: 35 mm
Number of positions	2
For country-specific use in	D, A, I, NL, S, E, FIN, P
Direction of action	L-N & L(N)-PE

Protective circuit

IEC test classification	III
	T3
EN type	T3
Arrester rated voltage U_C	264 V AC
Nominal frequency f_N	50 Hz (60 Hz)
Nominal current I_N	20 A (40°C)
Standby power consumption P_C	≤ 25 VA (at U_{REF})
	≤ 27.5 VA (at U_C)
Residual current I_{PE}	≤ 0.6 mA
Nominal discharge current I_n (8/20) μ s	5 kA
Combination wave U_{OC}	10 kV (5 kA)
Voltage protection level U_p	≤ 1 kV
Response time t_A	≤ 25 ns
Inductance	2x 1 mH ± 30 % (with current compensation)
Capacity (L-N)	1 μ F ± 10 %
	10 nF ± 10 % (X2-275 V)
Capacity (L-PE)	2.2 nF ± 20 % (Y2-250 V)
Capacity (L-PEN)	2.2 nF ± 20 % (Y2-250 V)
Max. required back-up fuse	20 A (MCB B/general purpose)
Input attenuation aE, sym.	20 dB (≥ 100 kHz / 50 Ω)
Input attenuation aE, asym.	30 dB (≥ 1 MHz / 50 Ω)
Surge protection fault message	Optical, remote indicator contact

Non-heating apparatus connection, power supply

EMC filter surge protection device - SFP 1-20/230AC - 2859987

Technical data

Non-heating apparatus connection, power supply

Connection method	Screw terminal blocks
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Connection method	3-conductor (shielded)
Screw thread	M3
Stripping length	8 mm

Remote indicator contact

Connection name	Remote fault indicator contact
Switching function	PDT contact
Connection method	Pluggable screw connection
Screw thread	M2
Stripping length	7 mm

Protective circuit, filter

Discharge resistor	820 k Ω
--------------------	----------------

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	27130806
eCl@ss 7.0	27130806
eCl@ss 8.0	27130806

ETIM

ETIM 2.0	EC000942
ETIM 3.0	EC000942
ETIM 4.0	EC000942
ETIM 5.0	EC000942

UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610

EMC filter surge protection device - SFP 1-20/230AC - 2859987

Classifications

UNSPSC

UNSPSC 13.2	39121620
-------------	----------

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approvals submitted

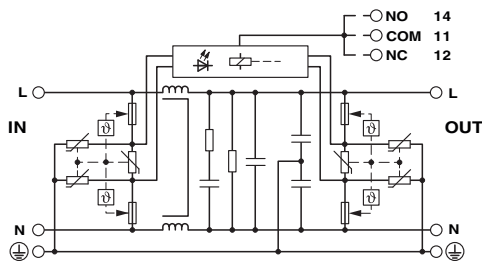
Approval details

EAC

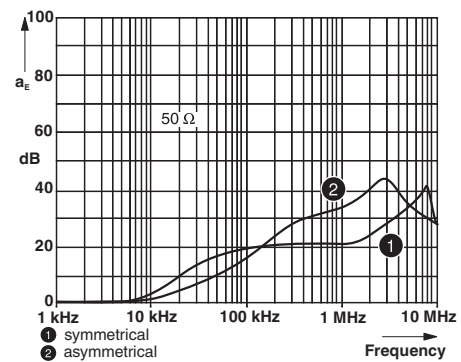
EAC

Drawings

Circuit diagram

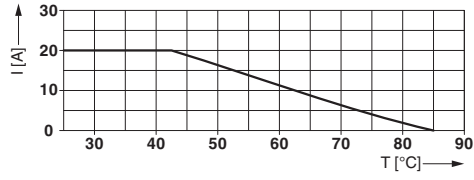


Diagram



EMC filter surge protection device - SFP 1-20/230AC - 2859987

Diagram



Dimensional drawing

