EMC filter surge protection device - SFP 1-15/120AC/EX - 2905219

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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. Can be used in potentially explosive areas in zone 2.

Product Description

Device protection with interference filter

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	620.0 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	93 mm
Width	112 mm
Depth	79 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

General

Standards/specifications	IEC 61643-1 2005
	EN 61643-11/A11 2007
	UL 1449 ed. 3: 2006 T4 for type 2
	UL 1283 ed. 5: 2005
IEC test classification	III

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Technical data

General

	T3
EN type	T3
Mounting type	DIN rail: 35 mm
Color	black
	silver
Housing material	Aluminum
Flammability rating according to UL 94	V-0
Type	Rail-mountable module, one-piece
Number of positions	2
Surge protection fault message	Optical, remote indicator contact
For country-specific use in	USA, CN, BR

Protective circuit

Nominal frequency f_N	50 Hz
	60 Hz
Maximum continuous operating voltage U_C (L-N)	150 V AC
Maximum continuous operating voltage U_C (L-PE)	150 V AC
Nominal current I_N	15 A (52 °C)
Rated load current I_L	15 A (52 °C)
Residual current I_{PE}	≤ 0.5 mA
Nominal discharge current I_n (8/20) µs (L-N)	3 kA
Nominal discharge current I_n (8/20) µs (L-PE)	3 kA
Operating effective current I_C at U_C	≤ 10 mA
Max. discharge current I_{max} (8/20) µs maximum (L-N)	10 kA
Max. discharge current I_{max} (8/20) µs maximum (L-PE)	10 kA
Combination wave U_{OC}	6 kV (3 kA)
Energy absorption symmetrical	170 J
Enery absorption, asymmetrical	2x 170 J
Voltage protection level U_p (L-N)	≤ 450 V (at 6 kV/3 kA)
Voltage protection level U_p (L-PE)	≤ 450 V (at 6 kV/3 kA)
Voltage protection level U_p (N-PE)	≤ 450 V (at 6 kV/3 kA)
Residual voltage at In, (L-N)	≤ 450 V
Residual voltage at In, (L-PE)	≤ 450 V
Residual voltage at In, (N-PE)	≤ 450 V
Response time t_A (L-N)	≤ 25 ns
Response time t_A (L-PE)	≤ 25 ns
Response time t_A (N-PE)	≤ 25 ns

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Protective circuit

Inductivity in series	2x 1 mH ±30 % (with current compensation)
Capacity (L-N)	2 µF ±10 % (X2, FOW X2-250V)
Capacity (L-PE)	2.2 nF ±20 % (Y, FOW X2-250V)
Capacity (L-PEN)	2.2 nF ±20 % (Y, FOW X2-250V)
Max. required back-up fuse	20 A (gL / gG)
	20 A (MCB, > 125 V, AIC: 14 kA)
Input attenuation aE, sym.	typ. 40 dB (≥ 500 kHz / 50 Ω)
Input attenuation aE, asym.	typ. 30 dB (≥ 1 MHz / 50 Ω)

Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	PDT contact
Connection method	Pluggable screw connection
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16

Connection data

Connection name	Input/output
Connection method	Screw terminal blocks
Conductor cross section flexible min.	2.5 mm²
Conductor cross section flexible max.	4 mm²
Conductor cross section solid min.	2.5 mm²
Conductor cross section solid max.	6 mm²
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
	5 lb_f-in. ... 7 lb_f-in.
Stripping length	8 mm

Protective circuit, filter

Discharge resistor	≤ 390 kΩ

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Classifications

eCl@ss

eCl@ss 5.1	27130801
eCl@ss 6.0	27130806

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / CSAus / CSA / cULus Recognized / cCSAus

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approvals submitted

Approval details

UL Recognized

cUL Recognized

CSAus

CSA

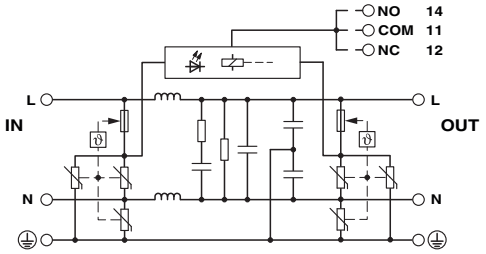
cULus Recognized

cCSAus

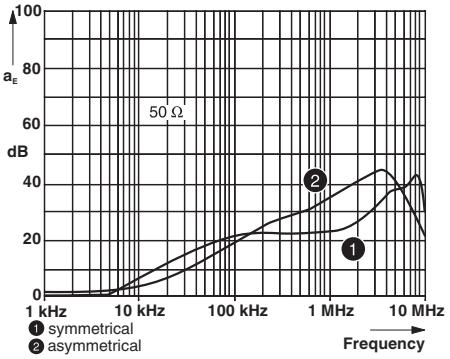
Drawings

EMC filter surge protection device - SFP 1-15/120AC/EX - 2905219

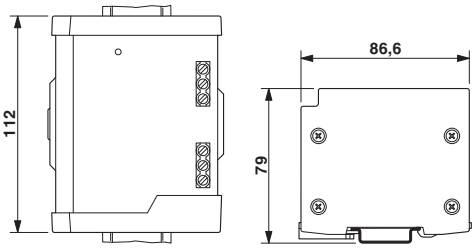
Circuit diagram



Diagram



Dimensional drawing



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