


SFP 1-20/230AC

Order No.: 2859987

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2859987>Device surge protection filter to limit powerful surge voltages, mounting
on NS 35.

Commercial data	
GTIN (EAN)	 4 046356 098175
sales group	J041
Pack	1 pcs.
Customs tariff	85363010
Catalog page information	Page 52 (TT-2009)

Product notes

WEEE/RoHS-compliant since:
07/11/2006

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Product description

Device protection with interference filter

Technical data

Standards

Housing material	ABS, V0(UL-94)
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Inflammability class acc. to UL 94	V0
Color	aluminum
Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1: 1992-10
	IEC 61643-1
Degree of protection	IP20
Design	Rail-mountable module, one-piece
Mounting type	DIN rail: 35 mm
Number of positions	2
Ambient temperature (operation)	-40 °C ... 70 °C
For country-specific use in	D, A, I, NL, S, E, FIN, P
Direction of action	L-N & L(N)-PE
Width	112.00 mm
Height	79.00 mm
Length	93.00 mm

Protective circuit

IEC category	III
EN type	T3
Nominal voltage U_N	230 V AC
Arrester rated voltage U_C (L-N)	264 V AC
Nominal frequency f_N	50 Hz
	60 Hz
Nominal current I_N	20 A (40°C)
Ground conductor current I_{PE}	≤ 0.57 mA
Nominal discharge surge current I_n (8/20) μ s (L-N)	5 kA
Nominal discharge surge current I_n (8/20) μ s (L-PE)	5 kA
Max. discharge surge current I_{max} (8/20) μ s maximum (L-N)	10 kA
Max. discharge surge current I_{max} (8/20) μ s maximum (L-PE)	10 kA
Combined surge U_{oc}	10 kV
Protection level U_p (L-N)	≤ 1 kV
Protection level U_p (L-PE)	≤ 1 kV
Protection level U_p (N-PE)	≤ 1 kV
Response time t_A (L-N)	≤ 25 ns

Response time tA (L-PE)	≤ 25 ns
Response time tA (N-PE)	≤ 25 ns
Inductivity in series	2x 1 mH ±30 % (with current compensation)
Capacity (L-N)	1 µF ±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 (gL / gG)
Input attenuation aE, sym.	20 dB (≥ 100 kHz / 50 Ω)
Input attenuation aE, asym.	30 dB (≥ 1 MHz / 50 Ω)
Message: Surge protection fault	Remote indicator contact

Non-heating apparatus connection, power supply

Connection name	Input/output
Type of connection	Screw terminal blocks
Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Connection method	3-conductor (shielded)
Screw thread	M3
Tightening torque	0.5 Nm
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	10

Remote indicator contact

Connection name	Remote fault indicator contact
Switching function	PDT, 1-pos.
Type of connection	Pluggable screw connection
Screw thread	M2
Tightening torque	0.25 Nm
Conductor cross section stranded min.	0.14 mm ²
Conductor cross section stranded max.	1.5 mm ²
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²

Conductor cross section AWG/kcmil min.	28
Conductor cross section AWG/kcmil max	16
Maximum operating voltage U_{max} AC	250 V AC
Max. operating current I_{max}	1 A (250 V AC)
	0.25 A (250 V DC)
	1 A (48 V DC)

Connection, protective circuit

Standards/regulations	IEC 61643-1
	EN 61643-11/A11

Protective circuit, filter

Discharge resistor	$\leq 680 \text{ k}\Omega$
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Certificates / Approvals

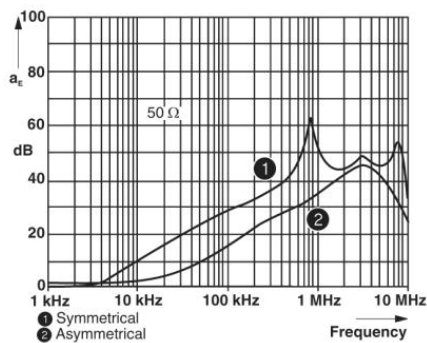


Certification

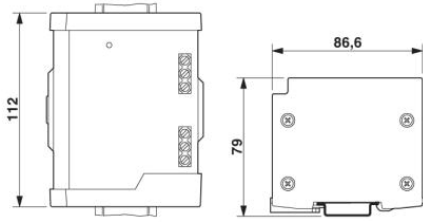
GOST

Diagrams/Drawings

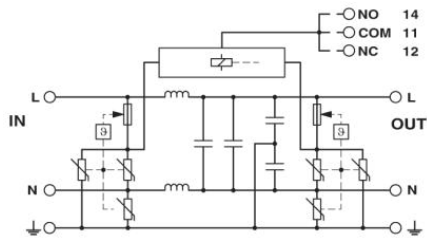
Diagram



Dimensioned drawing



Circuit diagram



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