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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SFP 1-20/120AC


Order No.: 2856702



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DIN rail module with device surge protection type 3 and mains suppression filter against high-frequency interference voltages. Integrated power display switches off automatically when there is a malfunction due to overload. Mounting on NS 35.

Commercial data

GTIN (EAN)	 4 017918 952648
sales group	J041
Pack	1 pcs.
Customs tariff	85363010
Catalog page information	Page 230 (TT-2011)

Product notes

WEEE/RoHS-compliant since:
06/23/2006



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Product description

Device protection with interference filter

Technical data

Standards

Housing material	ABS, aluminum
Inflammability class according to UL 94	V0
Color	aluminum
Standards for air and creepage distances	DIN VDE 0110-1
	IEC 60664-1: 1992-10
	IEC 61643-1
Surge voltage category	III
Pollution degree	2
Degree of protection	IP20
Design	Rail-mountable module, one-piece
Mounting type	DIN rail: 35 mm
Number of positions	2
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Ambient temperature (operation)	-25 °C ... 40 °C
For country-specific use in	USA, CN, BR
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
	T3
EN type	T3
Nominal voltage U_N	120 V AC
Arrester rated voltage U_C (L-N)	150 V AC
Arrester rated voltage U_C (L-PE)	150 V AC
Nominal frequency f_N	50 Hz
	60 Hz
Nominal current I_N	20 A (40°C)
Operating effective current I_C at U_C	≤ 10 mA
Ground conductor current I_{PE}	≤ 0.5 mA
Nominal discharge surge current I_n (8/20) μ s (L-N)	3 kA

Nominal discharge surge current I_n (8/20) μ s (L-PE)	3 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}	6 kV (3 kA)
Energy absorption symmetrical	170 J
Energy absorption, asymmetrical	2x 170 J
Protection level U_p (L-N)	≤ 450 V (at 6 kV/3 kA)
Protection level U_p (L-PE)	≤ 450 V (at 6 kV/3 kA)
Protection level U_p (N-PE)	≤ 450 V (at 6 kV/3 kA)
Residual voltage at I_n , (L-N)	≤ 450 V
Residual voltage at I_n , (L-PE)	≤ 450 V
Residual voltage at I_n , (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
Inductivity in series	2x 1 mH ± 30 % (with current compensation)
Capacity (L-N)	2 μ F ± 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)
Message: Surge protection fault	Remote indicator contact

Non-heating apparatus connection, power supply

Connection name	Input/output
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
Conductor cross section stranded min.	4 mm ²

Conductor cross section stranded max.	4 mm ²
Conductor cross section solid min.	4 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section AWG/kcmil min.	12
Conductor cross section AWG/kcmil max	10

Remote indicator contact

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 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)
Min. permissible switching capacity	(1.00 A / 48 V DC)
	(100 mA / 12 V AC)
Switching capacity max. perm.	(0.25 A / 250 V DC)
	(1.0 A / 48 V AC)

Connection, protective circuit

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

Protective circuit, filter

Discharge resistor	≤ 390 kΩ
Clamping voltage ringwave (L-N)	100 V (category A 100 kHz 6 kV/200 A)
	195 V (category B 100 kHz 6 kV/500 A)

Clamping voltage ringwave (L-PE)	390 V (category A 100 kHz 6 kV/200 A)
	390 V (category B 100 kHz 6 kV/500 A)

Certificates / Approvals

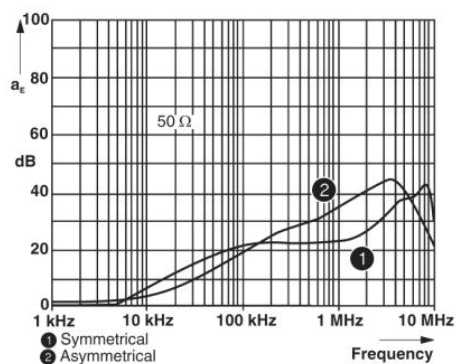


Certification

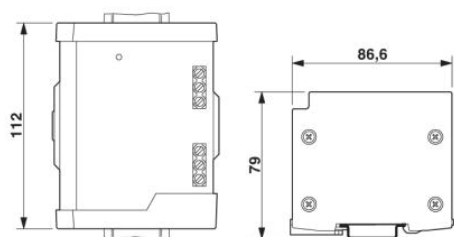
CSA, CSAus-COMP, CUL, GOST, UL

Diagrams/Drawings

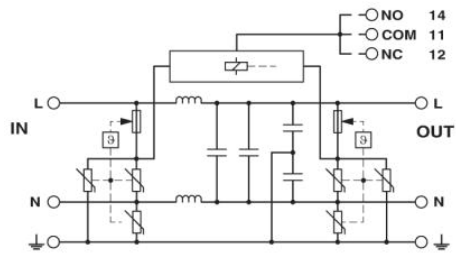
Diagram



Dimensioned drawing



Circuit diagram



Address

PHOENIX CONTACT Inc., USA
586 Fulling Mill Road
Middletown, PA 17057, USA
Phone (800) 888-7388
Fax (717) 944-1625
<http://www.phoenixcon.com>



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