Product datasheet

Specification





single phase relay, Harmony Solid State Modular Relays, 12A, DIN rail mount, zero voltage switching, input 200 to 265V AC, output 24 to 280V AC

SSM1A112P7

Main

Range of product	Harmony Solid State Relays	
Product or component type	Modular DIN rail relay	
Device short name	SSM	
Number of channels	1	
Number of phases	1 phase	
Output switching mode	Zero voltage switching	

Complementary

J		
mounting support	Symmetrical DIN rail	
[In] rated current	12 A	
Output voltage	24280 V AC	
[Uc] control circuit voltage	200265 V AC	
Tightening torque	0.50.8 N.m for input 0.50.8 N.m for output	
Connections - terminals	Screw terminals: 1 x 0.31 x 1.5 mm², (AWG 22AWG 16) for input Screw terminals: 1 x 0.31 x 2.5 mm², (AWG 22AWG 14) for output	
maximum capacitance	10 pF for input/output	
Insulation resistance	1000 MOhm at 500 V DC	
Local signalling	LED (green) for input status	
Minimum switching voltage	200 V AC turn-on	
Maximum switching voltage	90 V AC turn-off	
input current	2.53.5 mA	
solid state output type	SCR output Zero voltage switching	
load current	0.1512 A	
transient overvoltage	600 V	
Surge current	715 A for 16.6 ms 750 A for 20 ms	
Maximum voltage drop	<1.3 V on-state	
Motor power hp	0.33 hp 40 °C 240 V AC	
Maximum I ² t for fusing	2560 A².s for 10 ms at 50 Hz 2330 A².s for 8.33 ms at 60 Hz	
Maximum leakage current	0.1 mA off-state	

DV/dt	500 V/μs off-state at maximum voltage	
Response time	0.5 cycle (turn-on) 30 ms (turn-off)	
power factor	0.5 (with maximum load)	
Overvoltage category	III	
Width	18 mm	
Height	90.3 mm	
test button	Without test button	
Depth	83.7 mm	
Net weight	0.09 kg	

Environment

Flame retardance	V0 conforming to UL 94
Dielectric strength	4 kV AC for input/output 4 kV AC for input or output to case
Pollution degree	2
Standards	IEC 60950-1 IEC 61000 IEC 62314
Product certifications	CSA UL
marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-3080 °C
Ambient air temperature for storage	-30100 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.5 cm
Package 1 Width	9.0 cm
Package 1 Length	9.5 cm
Package 1 Weight	92.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	72
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.996 kg



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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

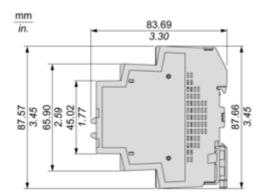
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

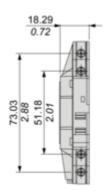
Product datasheet

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Dimensions Drawings

Dimensions



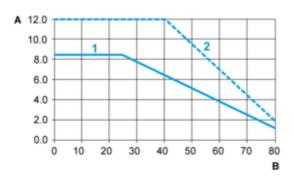


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Performance Curves

Derating Curves



- A: Load Current (Amperes)
- B: Ambient Temperature (°C)
- 1: Multiple units, no minimum spacing between components
- 2 : Installed single unit, distance to adjacent components more than 18 mm