# **Product datasheet**

Specification





Harmony Solid State Relays, Solid state modular relay, 12A, DIN rail mount, random swtching, input 90...140V AC, output 24...280V AC

SSM1A112F7R

(!) Discontinued

- ! Discontinued on: 31 Oct 2013
- ! End-of-service on: 15 Apr 2023

### 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	Random voltage switching	

# Complementary

Mounting Support	Symmetrical DIN rail	
[In] Rated Current	12 A	
Output Voltage	24280 V AC	
[Uc] Control Circuit Voltage	90140 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	90 V AC turn-on	
Maximum Switching Voltage	10 V AC turn-off	
Input Current	35 mA	
Solid State Output Type	Random voltage switching SCR output	
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 <sup>2</sup> T For Fusing	2560 A <sup>2</sup> .s for 10 ms at 50 Hz 2330 A <sup>2</sup> .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	30 ms (turn-off) 20 ms (turn-on)	
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 62314 IEC 60950-1 IEC 61000
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 cm
Package 1 Length	9.5 cm
Package 1 Weight	98 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	72
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.426 kg



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Transparency RoHS/REACh

## Well-being performance



Mercury Free



Rohs Exemption Information

Yes

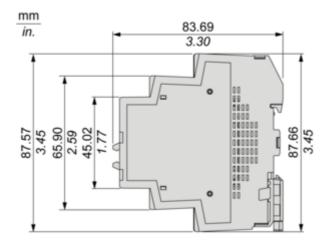
### **Certifications & Standards**

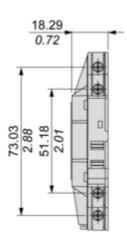
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

# SSM1A112F7R

#### **Dimensions Drawings**

#### **Dimensions**



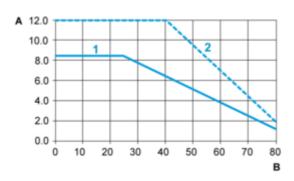


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## SSM1A112F7R

#### 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