# **Product datasheet**

Specifications





# solid state relay - DIN rail mount input 200-265 V AC, output 48-600 V AC ,12A

SSM1A312P7

Discontinued on: Jan 23, 2021

① Discontinued

### Main

Range Of Product	Harmony Relay	
Product Or Component Type	Solid state relay	
Device Short Name	SSM	
Number Of Channels	1	
Number Of Phases	1 phase	

# Complementary

Complementary	
Mounting Support	Symmetrical DIN rail
[In] Rated Current	12 A
Output Voltage	48600 V AC
[Uc] Control Circuit Voltage	200265 V AC
Contacts Type And Configuration	1 NO
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	Zero voltage switching SCR output
Load Current	0.1512 A
Transient Overvoltage	1200 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	0.2 mA off-state

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

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
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 61000 IEC 62314 IEC 60950-1
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

1

Number Of Units In Package 1

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



Rohs Exemption Information

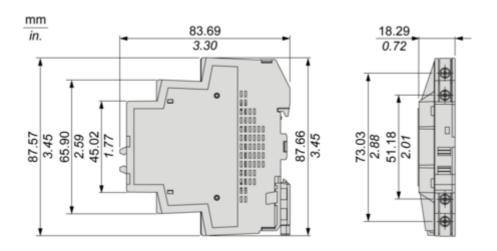
### **Certifications & Standards**

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

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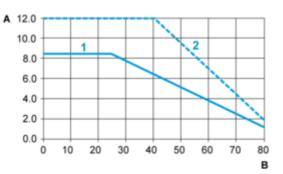
**Dimensions Drawings** 

#### Dimensions



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