# **Product datasheet**

Specifications





# Solid state modular relay, 6 A, zero voltage switching, input 200... 265 V AC, output 24...280 V AC

Local distributor code: 403014198

SSM1A16P7

#### EAN Code: 3606480579387

#### Main

Range Of Product	Harmony Solid State Relays	
Product Or Component Type	Solid state relay up to 10 A	
Device Short Name	SSM	
Number Of Channels	1	
Number Of Phases	1 phase	
Output Switching Mode	Zero voltage switching	

### Complementary

Complementary		
Mounting Support	Symmetrical DIN rail	
[In] Rated Current	6 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	Zero voltage switching SCR output	
Load Current	0.156 A	
Transient Overvoltage	600 V	
Surge Current	285 A for 16.6 ms 300 A for 20 ms	
Maximum Voltage Drop	<1.3 V on-state	
Motor Power Hp	0.16 hp 40 °C 240 V AC	
Maximum I <sup>2</sup> T For Fusing	410 A <sup>2</sup> .s for 10 ms at 50 Hz 375 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	0.5 cycle (turn-on) 30 ms (turn-off)	
Power Factor	0.5 (with maximum load)	
Overvoltage Category	Ш	
Width	11 mm	
Height	90.3 mm	
Depth	83.7 mm	
Net Weight	0.05 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	UL CSA
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	1.0 cm
Package 1 Width	9.0 cm
Package 1 Length	9.5 cm
Package 1 Weight	67.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	96
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.808 kg

### **Contractual warranty**

Warranty

18 months

### 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.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance

Reach Free Of Svhc
Mercury Free
Rohs Exemption Information Yes

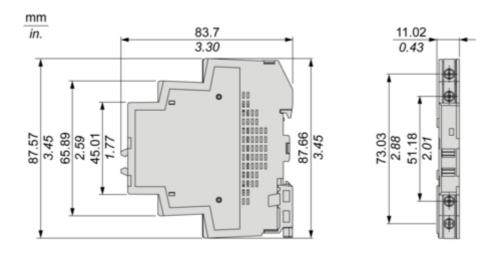
#### **Certifications & Standards**

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**

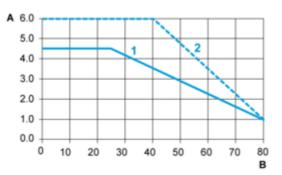
**Dimensions Drawings** 

#### 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 11 mm