Product datasheet

Specifications

Green Premium™

solid state relay - DIN rail mount - input 200-265 V AC, output 24-280 V AC ,6A

SSM1A16P7

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

Mounting Support	Symmetrical DIN rail
[In] Rated Current	6 A
Output Voltage	24...280 V AC
[Uc] Control Circuit Voltage	200...265 V AC
Tightening Torque	0.5...0.8 N.m for input 0.5...0.8 N.m for output
Connections - Terminals	Screw terminals: 1 x 0.3...1 x 1.5 mm², (AWG 22...AWG 16) for input Screw terminals: 1 x 0.3...1 x 2.5 mm², (AWG 22...AWG 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	2.5…3.5 mA
Solid State Output Type	Zero voltage switching SCR output
Load Current	0.15…6 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 I²T For Fusing	410 A².s for 10 ms at 50 Hz 375 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	11 mm
Height	90.3 mm
Test Button	Without test button
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	-30…80 °C
Ambient Air Temperature For Storage	-30…100 °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

Sustainability ![Green Premium]

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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

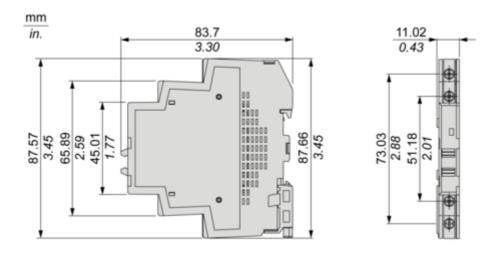✓ Reach Free Of Svhc

✓ 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

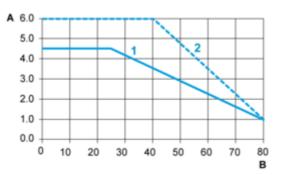**Circularity Profile**   End of Life Information

Dimensions Drawings

Dimensions

mm / in.

83.7 / 3.30

11.02 / 0.43

87.57 / 3.45

65.89 / 2.59

45.01 / 1.77

87.66 / 3.45

73.03 / 2.88

51.18 / 2.01

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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 11 mm