Product data sheet

Specification





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

SSM1A16P7R

! Discontinued on: Oct 20, 2020

! End-of-service on: Jan 22, 2021

! 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

•	
Mounting Support	Symmetrical DIN rail
[In] Rated Current	6 A
Output Voltage	24280 V AC
[Uc] Control Circuit Voltage	200265 V AC
Contacts Type And Configuration	1 NO
Tightening Torque	0.50.8 N.m input 0.50.8 N.m output
Connections - Terminals	Screw terminals 1 x 0.31 x 1.5 mm², AWG 22AWG 16) input Screw terminals 1 x 0.31 x 2.5 mm², AWG 22AWG 14) output
Maximum Capacitance	10 pF input/output
Insulation Resistance	1000 MOhm 500 V DC
Local Signalling	Input status LED green)
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 Random voltage switching
Load Current	0.156 A
Transient Overvoltage	600 V
Surge Current	285 A 16.6 ms 300 A 20 ms
Maximum Voltage Drop	<1.3 V on-state
Motor Power Hp	0.16 hp 104 °F (40 °C) 240 V AC
Maximum I ² T For Fusing	410 A².s 10 ms 50 Hz 375 A².s 8.33 ms 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	0.43 in (11 mm)	
Height	3.56 in (90.3 mm)	
Depth	3.30 in (83.7 mm)	
Net Weight	0.11 lb(US) (0.05 kg)	

Environment

Flame Retardance	V0 UL 94
Dielectric Strength	4 kV AC input/output 4 kV AC input or output to case
Pollution Degree	2
Standards	IEC 61000 IEC 60950-1 IEC 62314
Product Certifications	UL CSA
Marking	CE
Ip Degree Of Protection	IP20
Ambient Air Temperature For Operation	-22176 °F (-3080 °C)
Ambient Air Temperature For Storage	-22212 °F (-30100 °C)

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	0.79 in (2 cm)
Package 1 Width	3.54 in (9 cm)
Package 1 Length	3.54 in (9 cm)
Package 1 Weight	2.61 oz (74 g)



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
9	Mercury Free	
9	Rohs Exemption Information	Yes

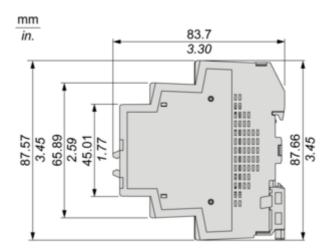
Certifications & Standards

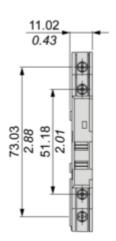
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

SSM1A16P7R

Dimensions Drawings

Dimensions



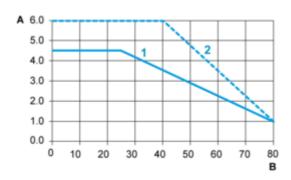


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Performance Curves

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 11 mm