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: Dec 2, 2020

! End-of-service on: Dec 31, 2020

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

Mounting Support	Symmetrical DIN rail	
Line 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 for input 0.50.8 N.m for 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 for input/output	
Insulation Resistance	1000 MOhm at 500 V DC	
Local Signalling	for 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	
Maximum Horse Power Rating	0.16 hp 104 °F (40 °C) 240 V AC	
Maximum I ² T For Fusing	410 A ² .s for 10 ms at 50 Hz 375 A ² .s for 8.33 ms at 60 Hz	

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

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 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 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)	

Ordering and shipping details

Category	22375-INTERFACE MODULE(ABA,R,S)	
Discount Schedule	CP2	
Gtin	3606480579431	
Returnability	No	
Country Of Origin	MX	

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

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Transparency RoHS/REACh

Well-being performance



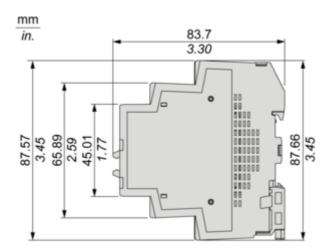
Certifications & Standards

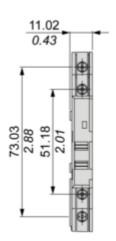
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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Dimensions Drawings

Dimensions



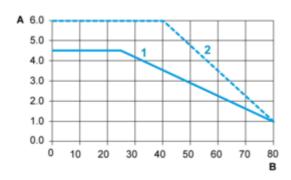


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Performance Curves

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