Product datasheet

Specification





solid state relay - DIN rail mount - input 18-36 V AC, output 24-280 V AC ,6A

Local distributor code: 403014020

SSM1A16B7

EAN Code: 3606480579394

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

Complementary		
mounting support	Symmetrical DIN rail	
[In] rated current	6 A	
Output voltage	24280 V AC	
[Uc] control circuit voltage	1836 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	ng LED (green) for input status	
Minimum switching voltage 18 V AC turn-on		
Maximum switching voltage	4 V AC turn-off	
input current	3.58.5 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 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	

14 Aug 2024

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 60950-1 IEC 61000 IEC 62314
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
Number of Units in Package 1	1
Package 1 Height	2.000 cm
Package 1 Width	9.000 cm
Package 1 Length	9.000 cm
Package 1 Weight	65.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	96
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.760 kg

Logistical informations

Country of origin MX

Contractual warranty

Warranty 18 months



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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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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

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

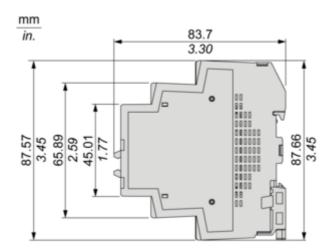
Certifications & Standards

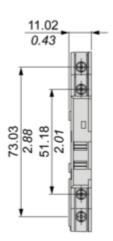
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

SSM1A16B7

Dimensions Drawings

Dimensions



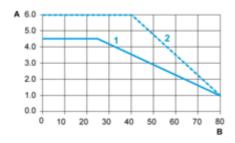


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Performance Curves

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