



Solid state modular relay, 6 A, random swtching, input 4...32 V DC, output 24...280 V AC

Local distributor code: 403014059

SSM1A16BDR

EAN Code: 3606480579417

Main

Range of product	Harmony Solid State Relays	
Device short name	SSM	
Product or component type	Modular DIN rail relay	
Number of channels	1	
Number of phases	1 phase	
Output switching mode	Random voltage switching	

Complementary

Product configuration type	Relay configuration	
Mounting support	Symmetrical DIN rail	
[In] rated current	6 A	
Output voltage	24280 V AC	
[Uc] control circuit voltage	432 V DC	
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 4 V DC turn-on		
Maximum switching voltage 1 V DC turn-off		
input current 811 mA		
Solid state output type	SCR output Random voltage switching	
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 ² t 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-off) 0.1 ms (turn-on)	
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	
Product weight	uct 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 62314 IEC 60950-1 IEC 61000	
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

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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	6.717 kg

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	
②	Rohs Exemption Information	Yes

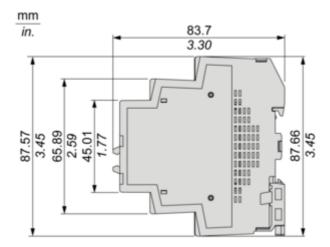
Certifications & Standards

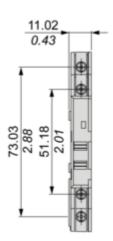
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

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Dimensions Drawings

Dimensions



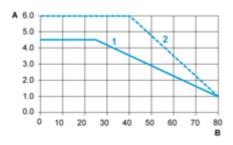


Product datasheet

SSM1A16BDR

Performance Curves

Derating Curves



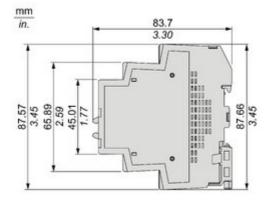
- A: Load Current (Amperes)
- B: Ambient Temperature (°C)
- 1 : Multiple units, no minimum spacing between components
- 2 : Installed single unit, distance to adjacent components more than 11 mm

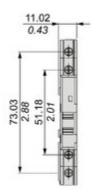
Product datasheet

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Technical Illustration

Dimensions





Product datasheet S

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Image of product / Alternate images

Alternative







