Product datasheet

Specification





solid state relay - DIN rail mount - input 4-32 V DC, output 24-280 V AC ,6A

SSM1A16BDR

Main

Range Of Product	Harmony Solid State Relays
Product Or Component Type	Solid state relay up to 10 A
Device Short Name	SSM
Number Of Channels	1
Number Of Phases	1 phase
Output Switching Mode	Random voltage switching

Complementary

Complementary	
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 A ² .s for 10 ms at 50 Hz 375 A ² .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	
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 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

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



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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

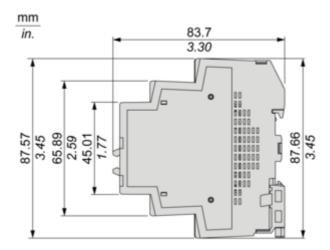
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

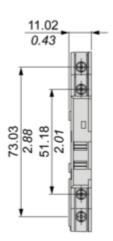
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Dimensions Drawings

Dimensions



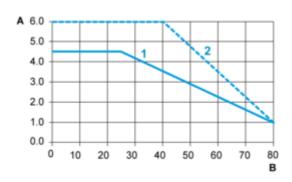


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Performance Curves

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