# **Product datasheet**





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

SSM1A16BD

### 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	Zero voltage switching	

## 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	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	

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.



Response Time	0.5 cycle (turn-on) 0.5 cycle (turn-off)	
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 61000 IEC 60950-1	
Product Certifications	CSA UL	
Marking	CE	
Ip Degree Of Protection	IP20	
Ambient Air Temperature For Operation	Temperature For -3080 °C	
Ambient Air Temperature For Storage		

# **Packing Units**

<u> </u>	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2 cm
Package 1 Width	9 cm
Package 1 Length	9 cm
Package 1 Weight	66 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	96
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	6.568 kg



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Transparency RoHS/REACh

### Well-being performance

	Reach Free Of Svhc	
<b>⊘</b>	Mercury Free	
<b>②</b>	Rohs Exemption Information	Yes

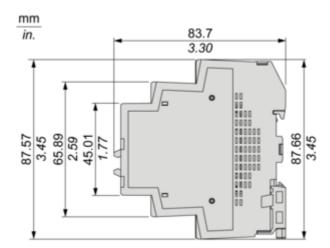
#### **Certifications & Standards**

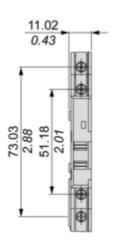
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

## SSM1A16BD

#### **Dimensions Drawings**

#### **Dimensions**



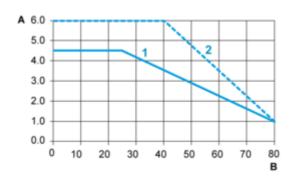


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### SSM1A16BD

#### 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