# **Product datasheet**

Specifications





single phase relay, Harmony Solid State Modular Relays, 12A, DIN rail mount, DC switching, input 4 to 32V DC, output 1 to 100V DC

SSM1D312BD

## 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	DC switching	

## Complementary

Complementary	
Mounting Support	Symmetrical DIN rail
[In] Rated Current	12 A
Output Voltage	1100 V DC
[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	911 mA
Solid State Output Type	DC switching Mosfet output
Load Current	0.002512 A
Transient Overvoltage	100 V
Surge Current	100 A for 10 ms
Maximum Voltage Drop	<0.5 V on-state
Resistance	0.045 Ohm on-state
Maximum Leakage Current	0.1 mA off-state
Response Time	0.6 ms (turn-on) 0.3 ms (turn-off)
Overvoltage Category	III

Width	18 mm	
Height	90.3 mm	
Test Button	Without test button	
Depth	83.7 mm	
Net Weight	0.09 kg	

## **Environment**

Flame Retardance	V0 conforming to UL 94
Dielectric Strength	4 kV DC for input/output 4 kV DC for input or output to case
Pollution Degree	2
Standards	IEC 60950-1 IEC 62314 IEC 61000
Product Certifications	CSA UL
Marking	CE
Ip Degree Of Protection	IP20
Ambient Air Temperature For Operation	-3080 °C
Ambient Air Temperature For Storage	-30…100 °C

# **Packing Units**

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	9.5 cm
Package 1 Weight	91 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	72
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.012 kg



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Transparency RoHS/REACh

## Well-being performance



Mercury Free



Rohs Exemption Information

Yes

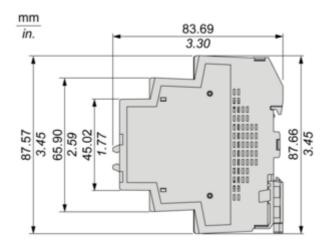
## **Certifications & Standards**

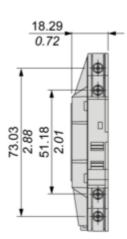
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

## SSM1D312BD

### **Dimensions Drawings**

### **Dimensions**



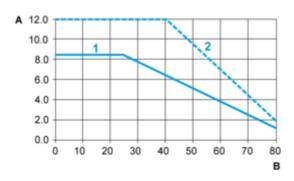


## **Product datasheet**

### SSM1D312BD

#### 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 18 mm