

single phase relay, Harmony Solid State Modular Relays, 12A, DIN rail mount, DC switching, input 4 to 32V DC, output 1 to 60V DC, 1NO

SSM1D212BD

## 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	DC switching	

# Complementary

Product configuration type	Relay configuration	
Mounting support	Symmetrical DIN rail	
[In] rated current	12 A	
Output voltage	160 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	811 mA	
Solid state output type	DC switching Mosfet output	
Load current	0.002512 A	
transient overvoltage	60 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	1.7 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	
Product 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 61000 IEC 60950-1 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	9.500 cm
Package 1 Weight	89.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	72
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	7.197 kg



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

## ☑ Environmental footprint

Environmental Disclosure

Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

#### **Use Again**

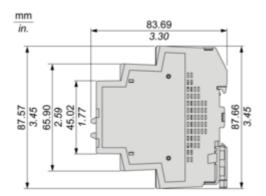
○ Repack and remanufacture		
End of life manual availability	End of Life Information	
Take-back	No	

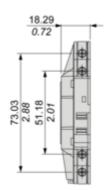
# **Product data sheet**

## SSM1D212BD

## **Dimensions Drawings**

## **Dimensions**



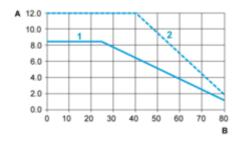


## **Product data sheet**

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#### Performance Curves

## **Derating Curves**



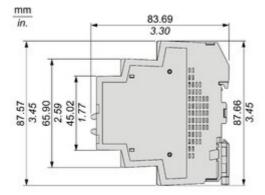
- A: Load Current (Amperes)
- B: Ambient Temperature (°C)
- 1 : Multiple units, no minimum spacing between components
- 2: Installed single unit, distance to adjacent components more than 18 mm

# **Product data sheet**

## SSM1D212BD

**Technical Illustration** 

#### **Dimensions**



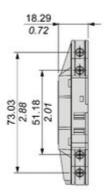


Image of product / Alternate images

**Alternative** 











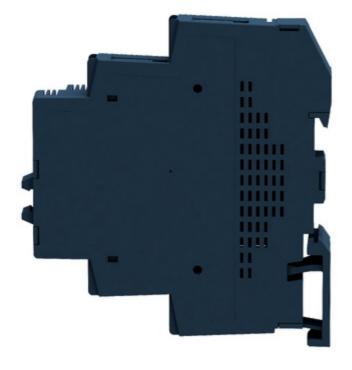


Image of product in real life situation

