

Product data sheet

Characteristics

SSM1D212BD

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



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

Mounting Support	Symmetrical DIN rail
Line Rated Current	12 A
Output voltage	1...60 V DC
[Uc] control circuit voltage	4...32 V DC
Tightening torque	0.5...0.8 N.m for input 0.5...0.8 N.m for output
Connections - terminals	Screw terminals 1 x 0.3...1 x 1.5 mm ² , AWG 22...AWG 16) input Screw terminals 1 x 0.3...1 x 2.5 mm ² , AWG 22...AWG 14) output
Maximum capacitance	10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	For input status LED (green)
Minimum switching voltage	4 V DC turn-on
Maximum switching voltage	1 V DC turn-off
Input current	9...11 mA
Solid state output type	DC switching Mosfet output
Load current	0.0025...12 A
Transient overvoltage	60 V
Surge current	100 A 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	0.7 in (18 mm)
Height	3.6 in (90.3 mm)
Test button	Without test button
Depth	3.3 in (83.7 mm)
Net Weight	0.20 lb(US) (0.09 kg)

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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[RETURN]JUL
Marking	CE
IP degree of protection	IP20
Ambient Air Temperature for Operation	-22...176 °F (-30...80 °C)
Ambient Air Temperature for Storage	-22...212 °F (-30...100 °C)

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3606480579462
Returnability	No
Country of origin	MX

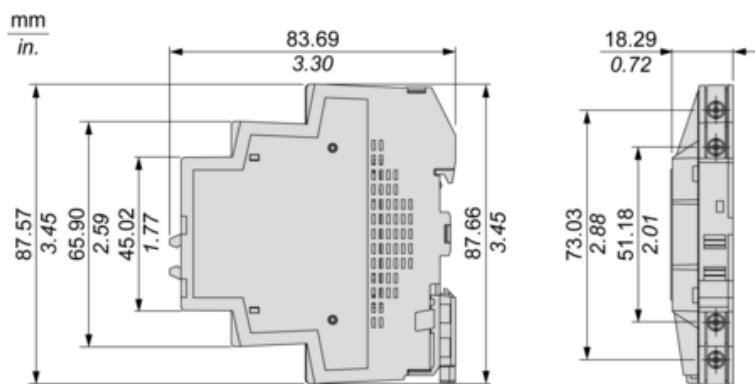
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.787 in (2.000 cm)
Package 1 Width	3.543 in (9.000 cm)
Package 1 Length	3.740 in (9.500 cm)
Package 1 Weight	3.139 oz (89.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	72
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	15.867 lb(US) (7.197 kg)

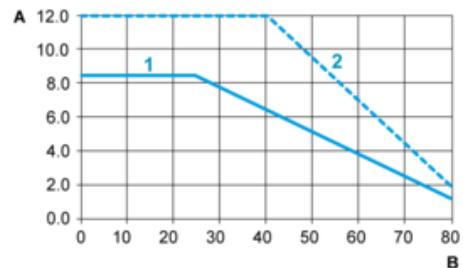
Offer Sustainability

Sustainable offer status	Green Premium product
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
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information

Dimensions



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