

# SSM1D312BD

Harmony, Solid state modular relay, 12 A, DIN rail mount, DC switching, input 4...32 V DC, output 1...100 V DC



Product availability: Stock - Normally stocked in distribution facility

Price\*: 41.20 USD



## Main

Range of Product	Harmony Solid State Relays
Product or Component Type	Solid state relay up to 20 A
Device short name	SSM
Number of Channels	1
Phase	1 phase
Output switching mode	DC switching

## Complementary

Mounting Support	Symmetrical DIN rail
Line Rated Current	12 A
Output voltage	1...100 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 <sup>2</sup> , AWG 22...AWG 16) input Screw terminals 1 x 0.3...1 x 2.5 mm <sup>2</sup> , AWG 22...AWG 14) output
Capacitance unbalance	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 limits	9...11 MA
Solid state output type	DC switching Mosfet output
Load current	0.0025...12 A
Absolute maximum voltage	100 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
Maximum Width	0.71 In (18 mm)
Maximum Height	3.56 In (90.3 mm)
Maximum Depth	3.30 In (83.7 mm)
Net Weight	0.20 Lb(US) (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	-22...176 °F (-30...80 °C)
Ambient Air Temperature for Storage	-22...212 °F (-30...100 °C)

## Ordering and shipping details

Category	22375 - INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	03606480579479
Nbr. of units in pkg.	1
Package weight(Lbs)	3.39 Oz (96 g)
Returnability	Yes
Country of origin	MX

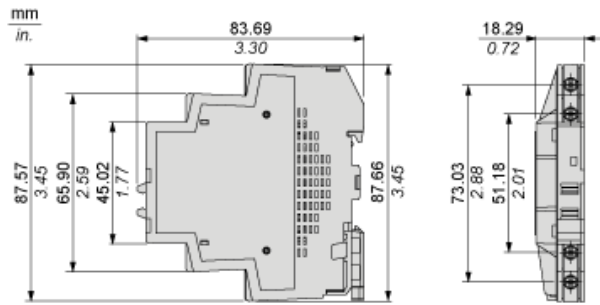
## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	0.79 In (2 cm)
Package 1 width	3.54 In (9 cm)
Package 1 Length	3.74 In (9.5 cm)

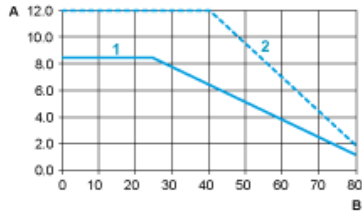
## Offer Sustainability

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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

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

Product Life Status : **Commercialised**