

# SSM1A112BD

single phase relay, Harmony Solid State Modular Relays, 12A, DIN rail mount, zero voltage switching, input 4 to 32V DC, output 24 to 280V AC



## 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	Zero voltage switching

## Complementary

Mounting Support	Symmetrical DIN rail
Line Rated Current	12 A
Output voltage	24...280 V AC
[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
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	Zero voltage switching SCR output
Load current	0.15...12 A
Transient overvoltage	600 V
Surge current	715 A 16.6 ms 750 A 20 ms
Maximum voltage drop	<1.3 V on-state
Maximum Horse Power Rating	0.33 hp 104 °F (40 °C) 240 V AC
Maximum I <sup>2</sup> t for fusing	2560 A <sup>2</sup> .S for 10 ms at 50 Hz 2330 A <sup>2</sup> .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
Response time	0.5 cycle (turn-on) 0.5 cycle (turn-off)
Power factor	0.5 (with maximum load)
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)

## 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 60950-1 IEC 61000 IEC 62314
Product Certifications	UL[RETURN]CSA
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	OCP2
GTIN	3606480579486
Returnability	Yes
Country of origin	MX

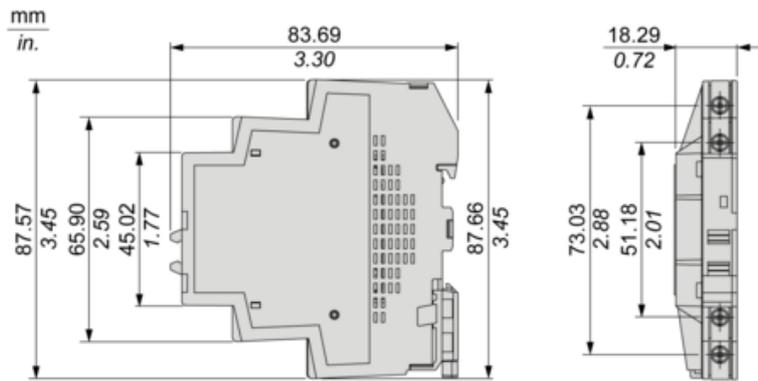
## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.984 in (2.500 cm)
Package 1 Width	3.543 in (9.000 cm)
Package 1 Length	3.740 in (9.500 cm)
Package 1 Weight	3.175 oz (90.000 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	15.408 lb(US) (6.989 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 <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)
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

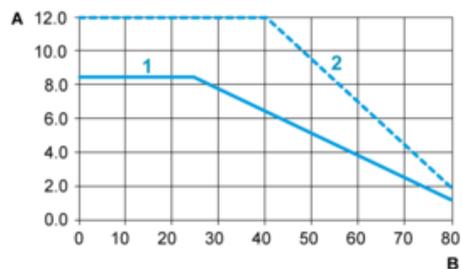
## Dimensions



---

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