

single phase relay, Harmony Solid State Slim Relays, 12A, DIN rail mount, random swtching, input 4 to 32V DC, output 24 to 280V AC

SSM1A112BDR

Product availability: Non-Stock - Not normally stocked in distribution facility

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	Random voltage switching	

Complementary

Product configuration type	Relay configuration	
Mounting Support	Symmetrical DIN rail	
Line Rated Current	12 A	
Output voltage	24280 V AC	
[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) input Screw terminals 1 x 0.31 x 2.5 mm², AWG 22AWG 14) 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	SCR output Random voltage switching	
Load current	0.1512 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 ² t for fusing	2560 A ² .s for 10 ms at 50 Hz 2330 A ² .s for 8.33 ms at 60 Hz	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Maximum leakage current	0.1 mA off-state	
DV/dt	500 V/μs off-state at maximum voltage	
Response time	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)	
Product 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 CSA	
Marking	CE	
IP degree of protection	IP20	
Ambient Air Temperature for Operation	-22176 °F (-3080 °C)	
Ambient Air Temperature for Storage	-22212 °F (-30100 °C)	

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3606480579561
Returnability	Yes
Country of origin	MX

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	0.98 in (2.500 cm)
Package 1 Width	3.54 in (9.000 cm)
Package 1 Length	3.74 in (9.500 cm)
Package weight(Lbs)	3.245 oz (92.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	72
Package 2 Height	5.91 in (15.000 cm)

Package 2 Width	11.81 in (30.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	15.474 lb(US) (7.019 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)
SCIP Number	134201bc-d293-4667-9cca-10a7f11729e0
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

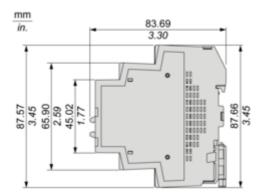
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

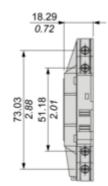
Product data sheet

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Dimensions Drawings

Dimensions



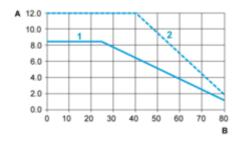


Product data sheet

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Performance Curves

Derating Curves



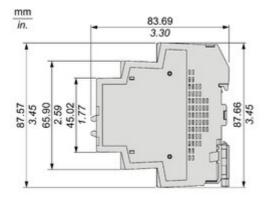
- A: Load Current (Amperes)
- B: Ambient Temperature (°C)
- 1 : Multiple units, no minimum spacing between components
- 2: Installed single unit, distance to adjacent components more than 18 mm

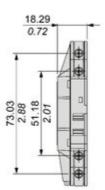
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Technical Illustration

Dimensions





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Image of product / Alternate images

Alternative







Image of product in real life situation

