

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

SSM1A112BD

Product availability: Stock - 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	Zero 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	Zero voltage switching SCR output	
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	

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

Maximum I ² t for fusing	2560 A².s for 10 ms at 50 Hz 2330 A².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)
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	3606480579486
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)	3.175 oz (90.000 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	15.408 lb(US) (6.989 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	
Carbon footprint (kg CO2 eq, Total Life cycle)	137
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
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

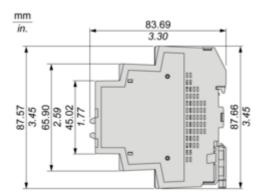
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

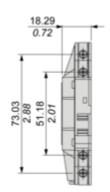
Product data sheet

SSM1A112BD

Dimensions Drawings

Dimensions



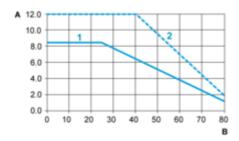


Product data sheet

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Performance Curves

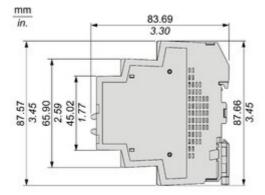
Derating Curves



- 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

Technical Illustration

Dimensions



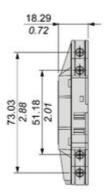


Image of product / Alternate images

Alternative











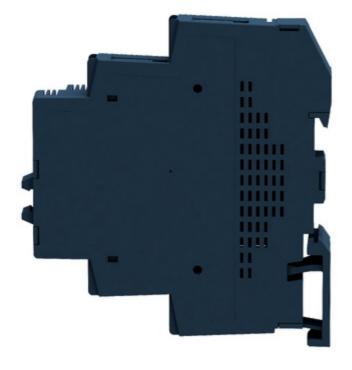


Image of product in real life situation

