

# Product data sheet

Specifications



single phase relay, Harmony Solid State Modular Relays, 6A, DIN rail mount, random switching, input 4 to 32V DC, output 48 to 600V AC

SSM1A36BDR

**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	6 A
Output voltage	48...600 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 MΩ 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	8...11 mA
Solid state output type	Random voltage switching SCR output
Load current	0.15...6 A
transient overvoltage	1200 V
Surge current	285 A 16.6 ms 300 A 20 ms
Maximum voltage drop	<1.3 V on-state
Maximum Horse Power Rating	0.16 hp 104 °F (40 °C) 240 V AC
Maximum I <sup>2</sup> t for fusing	410 A <sup>2</sup> .s for 10 ms at 50 Hz 375 A <sup>2</sup> .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) 0.1 ms (turn-on)
power factor	0.5 (with maximum load)
Overvoltage category	III
Width	0.4 in (11 mm)
Height	3.6 in (90.3 mm)
test button	Without test button
Depth	3.3 in (83.7 mm)
Product Weight	0.11 lb(US) (0.05 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 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	US10CP222375
Discount Schedule	OCP2
GTIN	3606480579455
Returnability	Yes
Country of origin	MX

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
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)
Package weight(Lbs)	2.4 oz (67 g)
Unit Type of Package 2	S02
Number of Units in Package 2	96
Package 2 Height	5.91 in (15 cm)

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<b>Package 2 Width</b>	11.81 in (30 cm)
<b>Package 2 Length</b>	15.75 in (40 cm)
<b>Package 2 Weight</b>	15.020 lb(US) (6.813 kg)

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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

### 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)

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

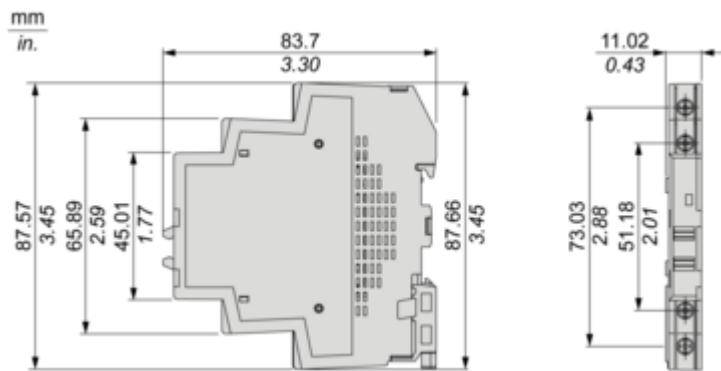
### Repack and remanufacture

Circularity Profile [End of Life Information](#)

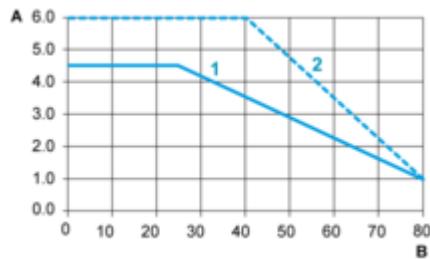
Take-back No

## Dimensions Drawings

## Dimensions



## 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 11 mm

## Technical Illustration

## Dimensions

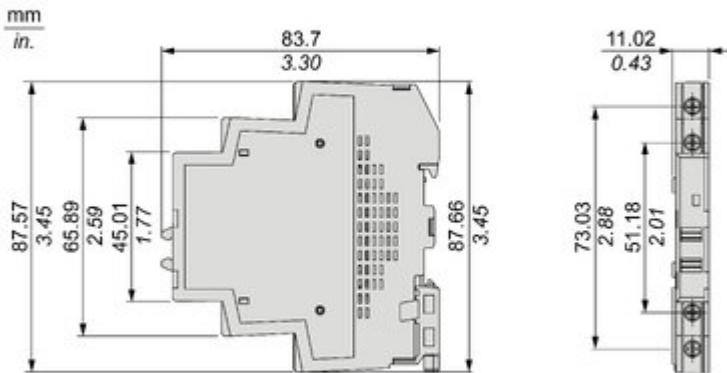
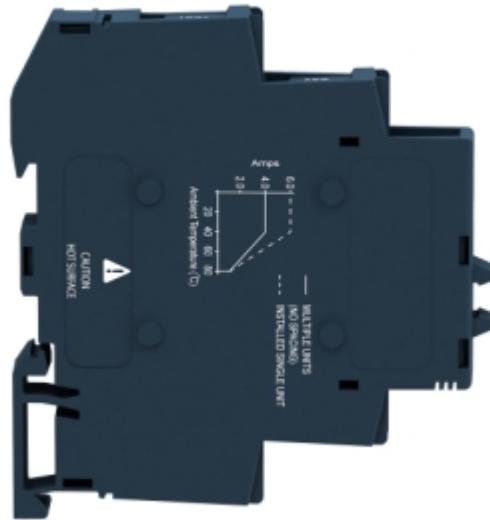


Image of product / Alternate images

Alternative

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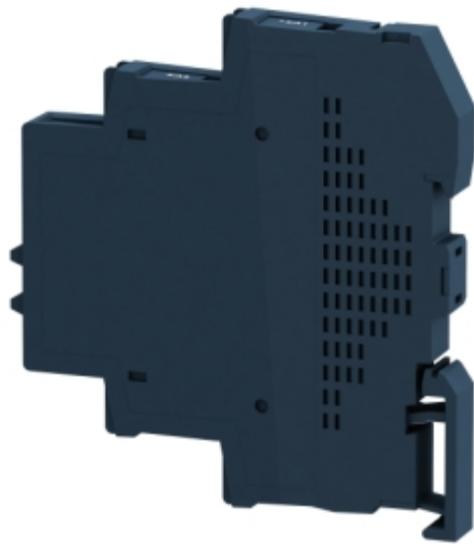


Image of product in real life situation

