Product data sheet

Specifications

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

SSM1A36BD

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
[In] 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 mm², (AWG 22...AWG 16) for input Screw terminals: 1 x 0.3...1 x 2.5 mm², (AWG 22...AWG 14) for 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	8…11 mA
Solid state output type	Zero voltage switching SCR output
Load current	0.15…6 A
transient overvoltage	1200 V
Surge current	285 A for 16.6 ms 300 A for 20 ms
Maximum voltage drop	<1.3 V on-state
Motor power hp	0.16 hp 40 °C 240 V AC
Maximum I²t for fusing	410 A².s for 10 ms at 50 Hz 375 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	11 mm
Height	90.3 mm
test button	Without test button
Depth	83.7 mm
Product weight	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 62314 IEC 61000 IEC 60950-1
Product certifications	UL CSA
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-30…80 °C
Ambient air temperature for storage	-30…100 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.000 cm
Package 1 Width	9.000 cm
Package 1 Length	9.000 cm
Package 1 Weight	64.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	96
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.600 kg

Environmental Data

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

Total lifecycle Carbon footprint	**8**
Environmental Disclosure	**Product Environmental Profile**

Use Better

🗇 Materials and Substances

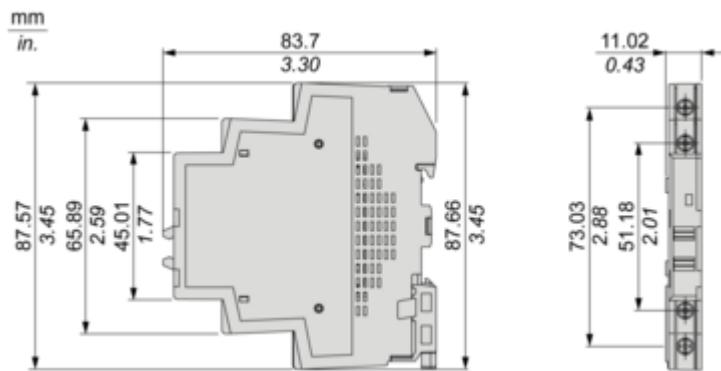|	
Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Pro-active compliance (Product out of EU RoHS legal scope)**
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known 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

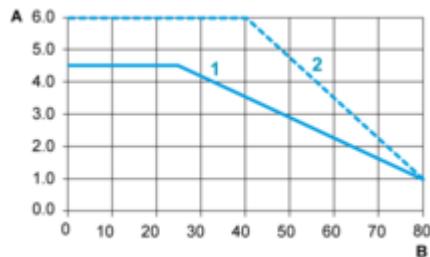|	
End of life manual availability	**End of Life Information**
Take-back	**No**

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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
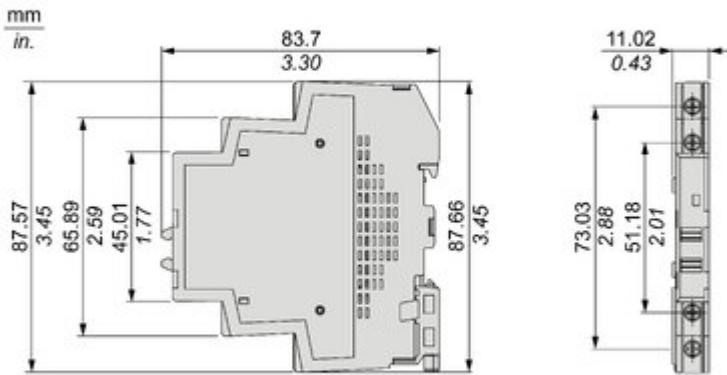
Technical Illustration

Dimensions

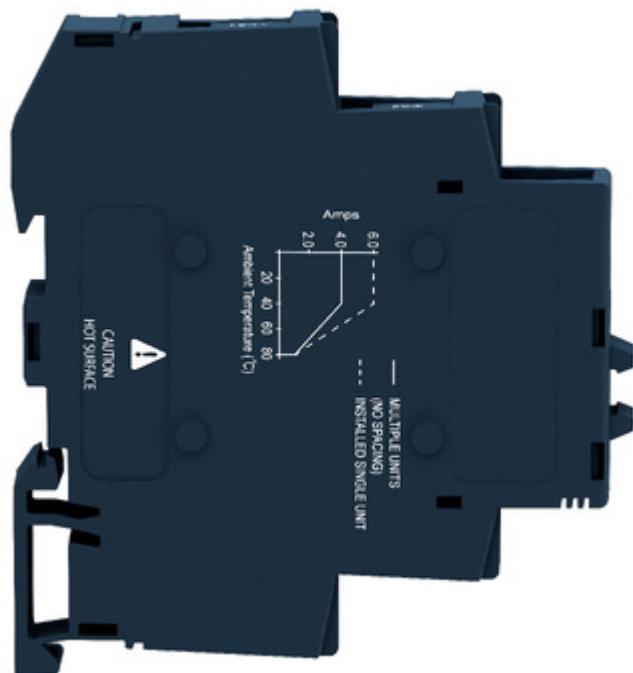**SSM1A36BD**

Image of product / Alternate images

Alternative

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Image of product in real life situation