

# Product data sheet

Specifications



single phase panel, Harmony Solid State Relays, 35A, DIN rail mount, zero voltage switching, input 90...280 V AC DC, output 48...600 V AC

SSD1A335M7C3

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

**Price\*: 84.54 USD**

## Main

Range of Product	Harmony Solid State Relays
Product or Component Type	Modular DIN rail relay
Device short name	SSD1
Number of Channels	1
Number of phases	1 phase
Product configuration type	Contact configuration with pluggable spring input
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715
rated current	35 A
Output switching mode	Zero voltage switching

## Complementary

operating frequency	47...440 Hz
Rated duty	Uninterrupted
Output voltage	48...600 V AC
control circuit voltage	90...280 V AC/DC
Tightening torque	2...2.2 N.m for load output 18...20 lb.in for load output
Connections - terminals	Plug-in spring terminals, clamping connection capacity: 0.13...3.30 mm <sup>2</sup> , AWG 26...AWG 12 for input Telescopic screw, clamping connection capacity: 0.75...10 mm <sup>2</sup> , AWG 20...AWG 8 for output
Dielectric strength	4 kV AC for input/output circuit 4 kV AC for input or output to case
rated impulse withstand voltage	6 kV for input/output circuit 6 kV for input or output to case
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	for control voltage LED (green)
pick-up voltage	90 V AC/DC turn-on
drop-out voltage	5 V AC/DC turn-off
input current range	6...10 mA
solid state switching type	Zero voltage switching
Load current	0.15...35 A

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

<b>transient overvoltage</b>	1200 V
<b>Inrush current</b>	1350 A at 60 Hz
<b>Maximum voltage drop</b>	<1.15 V on-state
<b>motor controller rating</b>	1.5 kW/2 hp at 120 V AC 3.73 kW/5 hp at 240 V AC 7.46 kW/10 hp at 480 V AC
<b>Electromagnetic compatibility</b>	Electrostatic discharge 6 kV criteria A contact discharge conforming to IEC 61000-4-2 Electrostatic discharge 8 kV criteria A air discharge conforming to IEC 61000-4-2 Conducted RF disturbances 10 V, 0.15...80 MHz criteria A level 3 conforming to IEC 61000-4-6 Electrical fast transient/burst immunity test 2 kV, 5/100 kHz criteria B output ports conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test 1 kV, 5/100 kHz criteria B input ports conforming to IEC 61000-4-4 Radiated radio-frequency electromagnetic field immunity test 10 V/m, 80 MHz...1 GHz criteria A conforming to IEC 61000-4-3 Radiated radio-frequency electromagnetic field immunity test 3 V/m, 1.4...2 GHz criteria A conforming to IEC 61000-4-3 Radiated radio-frequency electromagnetic field immunity test 1 V/m, 2...2.7 GHz criteria A conforming to IEC 61000-4-3 Surge immunity test 1 kV criteria A output ports line to line conforming to IEC 61000-4-5 Surge immunity test 2 kV criteria A output ports line to earth conforming to IEC 61000-4-5 Surge immunity test 1 kV criteria A input ports line to line conforming to IEC 61000-4-5 Surge immunity test 2 kV criteria A input ports line to earth conforming to IEC 61000-4-5 Radiated emission environment B for AC input supply conforming to IEC 60947-4-3 Conducted emission environment A for AC input supply conforming to IEC 60947-4-3 Immunity to microbreaks and voltage drops 30 %, 500 ms criteria A conforming to IEC 61000-4-11 Immunity to microbreaks and voltage drops 100 %, 20 ms criteria B conforming to IEC 61000-4-11
<b>device form designation</b>	Form 5 semiconductor output DOL contactor
<b>Maximum I<sup>2</sup>t for fusing</b>	8320 A <sup>2</sup> .s for 10 ms 7593 A <sup>2</sup> .s for 8.33 ms
<b>Maximum leakage current</b>	1 mA off-state
<b>DV/dt</b>	500 V/μs off-state at maximum rated voltage
<b>Response time</b>	20 ms (turn-on) 30 ms (turn-off)
<b>Power factor</b>	0.5 with maximum load
<b>short circuit protection coordination</b>	Type 1 Type 2
<b>Overvoltage category</b>	III
<b>Width</b>	0.9 in (22.5 mm)
<b>Height</b>	3.6 in (91.9 mm)
<b>Depth</b>	5.3 in (133.8 mm)
<b>test button</b>	Without test button
<b>Net Weight</b>	0.664 lb(US) (0.301 kg)
<b>Device presentation</b>	Complete product

## Environment

<b>Flammability rating</b>	V-0 conforming to UL 94
<b>Vibration resistance</b>	0.75 mm (f = 10...150 Hz) conforming to IEC 60068-2-6

<b>Shock resistance</b>	50 gn for 11 ms (peak acceleration) , longitudinal position conforming to IEC 60068-2-27 30 gn for 11 ms (peak acceleration) , vertical position conforming to IEC 60068-2-27
<b>Pollution degree</b>	2
<b>Standards</b>	IEC 61373:class B: category 1 IEC 60947-4-3 IEC 62314 IEC 60950-1 CSA C22.2 No 14-13 UL 508
<b>IP degree of protection</b>	IP20
<b>Ambient Air Temperature for Operation</b>	-4...176 °F (-20...80 °C)
<b>Ambient Air Temperature for Storage</b>	-40...212 °F (-40...100 °C)

## Ordering and shipping details

<b>Category</b>	US10CP222375
<b>Discount Schedule</b>	0CP2
<b>GTIN</b>	3606489807993
<b>Returnability</b>	No
<b>Country of origin</b>	US

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	1.02 in (2.6 cm)
<b>Package 1 Width</b>	3.82 in (9.7 cm)
<b>Package 1 Length</b>	5.51 in (14.0 cm)
<b>Package 1 Weight</b>	11.5 oz (325.0 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	24
<b>Package 2 Height</b>	5.91 in (15.0 cm)
<b>Package 2 Width</b>	11.81 in (30.0 cm)
<b>Package 2 Length</b>	15.75 in (40.0 cm)
<b>Package 2 Weight</b>	18.223 lb(US) (8.266 kg)

## Sustainability

**Green Premium™** label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[How we assess product sustainability >](#)

## Resource performance


 Take-Back No

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## Well-being performance

 Mercury Free

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 Rohs Exemption Information Yes

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**Reach Regulation** [REACH Declaration](#)

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**Eu Rohs Directive** Pro-active compliance (Product out of EU RoHS legal scope)

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**China Rohs Regulation** [China RoHS declaration](#)

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**Weee** The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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**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](http://www.P65Warnings.ca.gov)

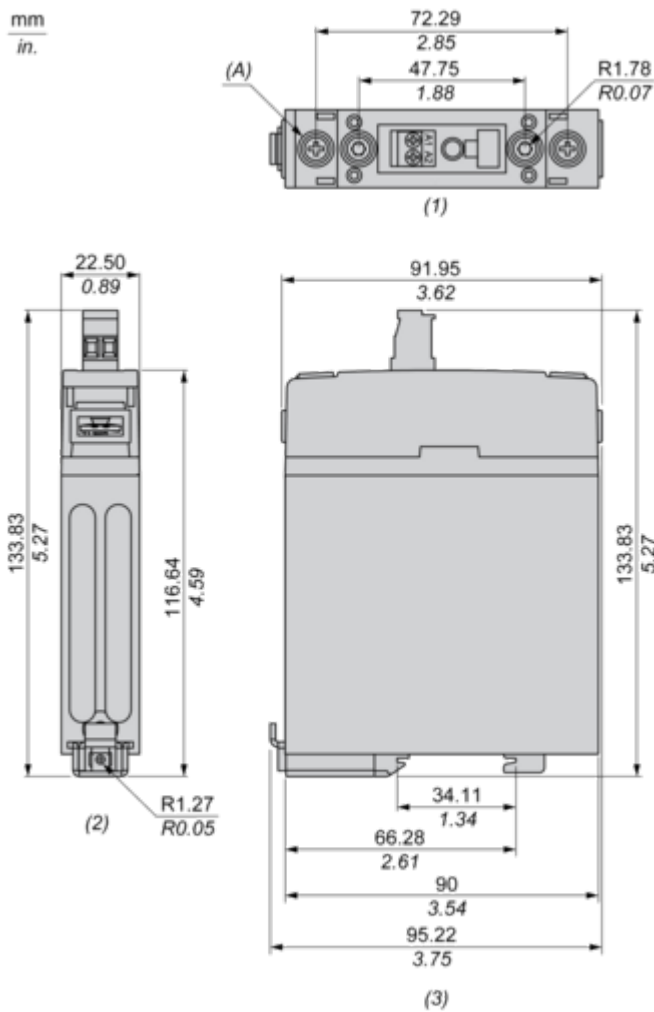
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Dimensions Drawings

Dimensions



(1) Front view

(2) Top view

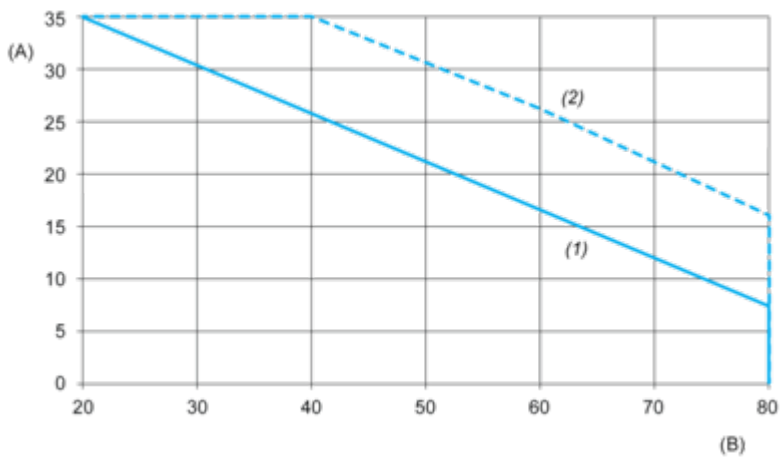
(3) Side view

(A) Screw 8-32 Stud Elevator Profile 1/4 48 UNS (2 Places)

Performance Curves

Derating Curves

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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 22.5 mm

Technical Illustration

Dimensions

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