

# Product datasheet

Specifications



Harmony, Solid state relay, 35 A,  
DIN rail mount, zero voltage  
switching, input 90...280 V AC/DC,  
output 48...600 V AC

SSD1A335M7C2

! Discontinued

! Discontinued on: 15 Aug 2024

**Price: 1,412.48 ZAR**

## 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 screw 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	0.5 N.m for control input 5 lb.in for control input 2...2.2 N.m for load output 18...20 lb.in for load output
Connections - terminals	Plug-inscrew terminals, clamping connection capacity:0.08...3.30 mm <sup>2</sup> , AWG 28...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	LED (green) for control voltage
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

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

<b>Load current</b>	0.15...35 A
<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>	22.5 mm
<b>Height</b>	91.9 mm
<b>Depth</b>	133.8 mm
<b>test button</b>	Without test button
<b>Net weight</b>	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>	-20...80 °C
<b>Ambient air temperature for storage</b>	-40...100 °C

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.6 cm
<b>Package 1 Width</b>	9.7 cm
<b>Package 1 Length</b>	14.2 cm
<b>Package 1 Weight</b>	324.0 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	24
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	8.269 kg

## Contractual warranty

<b>Warranty (in months)</b>	18
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## 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	430 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	4 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	426 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	134201bc-d293-4667-9cca-10a7f11729e0
REACH Regulation	<a href="#">REACH Declaration</a>

## Use Longer

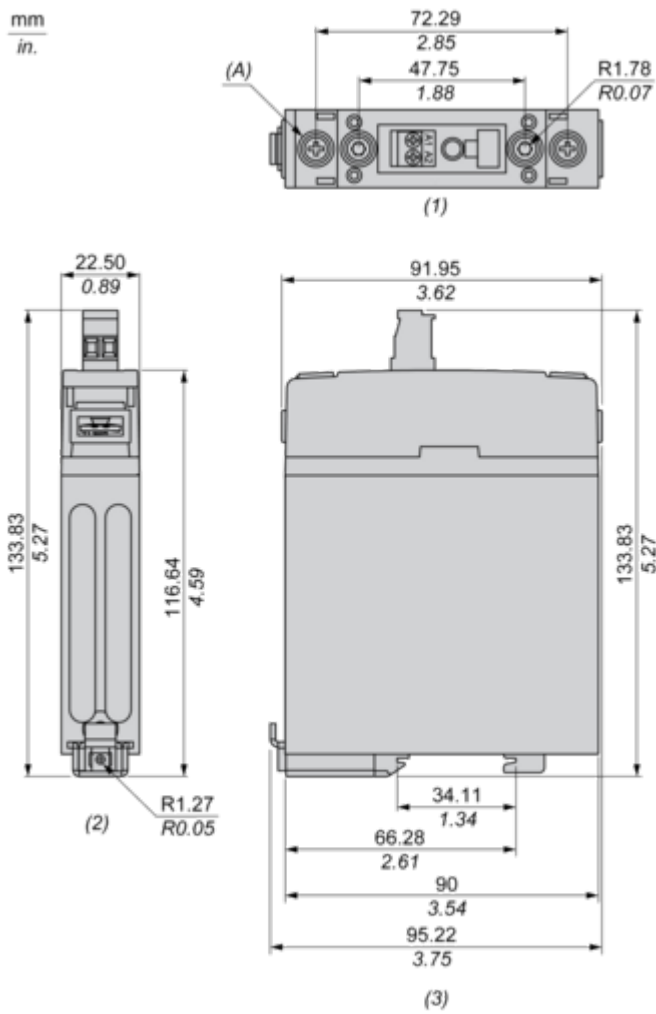


### Lifetime extension

Repair	No
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Dimensions Drawings

Dimensions

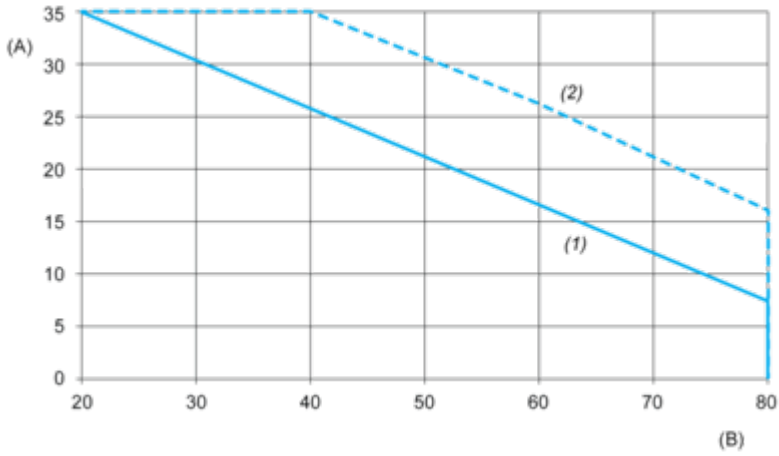


- (1) Front view
- (2) Top view
- (3) Side view
- (A) Screw 8-32 Stud Elevator Profile 1/4 48 UNS (2 Places)

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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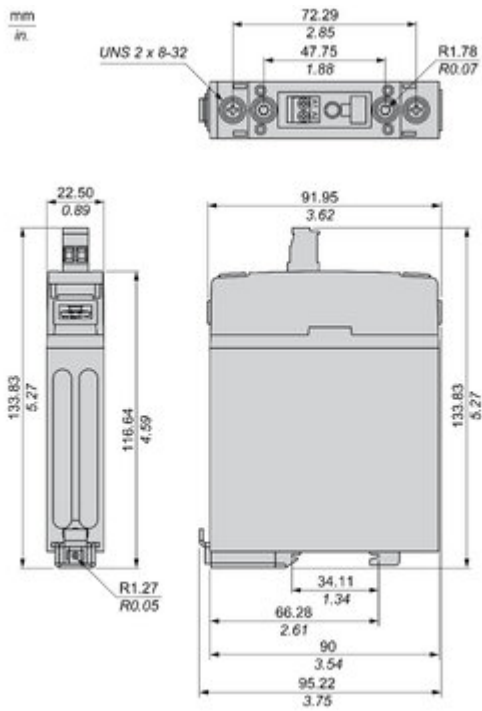








Image of product in real life situation

