

# Product data sheet

Specifications



DIN rail mount, Harmony Solid State Relays, 60A, zero Voltage switching, contactor configuration screw input, input 4 to 32V DC, output 48 to 600V AC

SSD1A360BDC2

Product availability: Stock - Normally stocked in distribution facility

**Price\*: 103.46 USD**

## Main

Range Of Product	Harmony Solid State Relays
Product Or Component Type	Solid state relay up to 75 A
Device Short Name	SSD1
Number Of Channels	1
Number Of Phases	1 phase
Product Configuration Type	Contactor configuration with pluggable screw input
Mounting Support	35 mm symmetrical DIN rail conforming to IEC 60715
Rated Current	60 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	4...32 V 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 Clamp terminal, clamping connection capacity:10...26.67 mm <sup>2</sup> , AWG 8...AWG 3 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	4 V DC turn-on
Drop-Out Voltage	1 V DC turn-off
Input Current Range	10...15 mA

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

<b>Solid State Switching Type</b>	Zero voltage switching
<b>Load Current</b>	0.15...60 A
<b>Transient Overvoltage</b>	1200 V
<b>Inrush Current</b>	1350 A at 60 Hz
<b>Maximum Voltage Drop</b>	<1.2 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 B output ports line to line conforming to IEC 61000-4-5 Surge immunity test 2 kV criteria B output ports line to earth conforming to IEC 61000-4-5 Radiated emission environment B for DC input supply conforming to IEC 60947-4-3 Conducted emission environment B for DC 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>	0.5 cycle (turn-on) 0.5 cycle (turn-off)
<b>Load Power Factor Range</b>	0.5 with maximum load
<b>Short Circuit Protection Coordination</b>	Type 1 Type 2
<b>Overvoltage Category</b>	III
<b>Width</b>	1.77 in (45 mm)
<b>Height</b>	4.39 in (111.5 mm)
<b>Depth</b>	6.08 in (154.4 mm)
<b>Net Weight</b>	1.12 lb(US) (0.507 kg)
<b>Device Presentation</b>	Complete product

## Environment

<b>Flammability Rating</b>	V-0 conforming to UL 94
<b>Vibration Resistance</b>	0.35 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>	-40...176 °F (-40...80 °C)
<b>Ambient Air Temperature For Storage</b>	-40...212 °F (-40...100 °C)

## Ordering and shipping details

<b>Category</b>	22375-INTERFACE MODULE(ABA,R,S)
<b>Discount Schedule</b>	CP2
<b>Gtin</b>	3606489808099
<b>Returnability</b>	Yes

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	1.89 in (4.8 cm)
<b>Package 1 Width</b>	4.72 in (12.0 cm)
<b>Package 1 Length</b>	5.91 in (15.0 cm)
<b>Package 1 Weight</b>	19.58 oz (555.0 g)
<b>Unit Type Of Package 2</b>	S02
<b>Number Of Units In Package 2</b>	10
<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>	13.26 lb(US) (6.016 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 >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

 Mercury Free

 Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

China Rohs Regulation

[China RoHS declaration](#)

Environmental Disclosure

[Product Environmental Profile](#)

Weee

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

Circularity Profile

[End of Life Information](#)

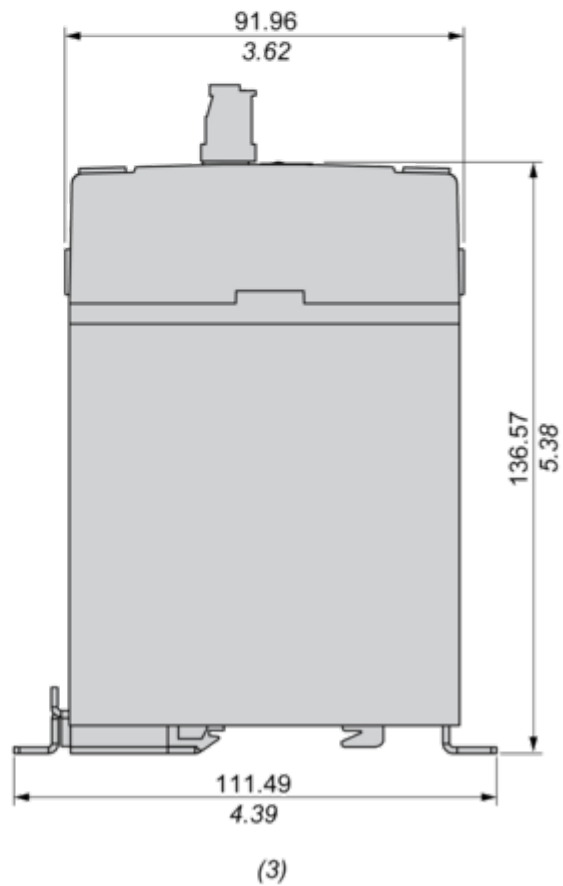
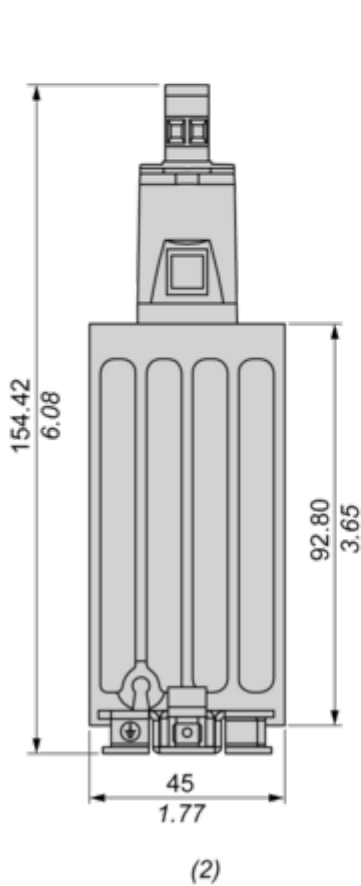
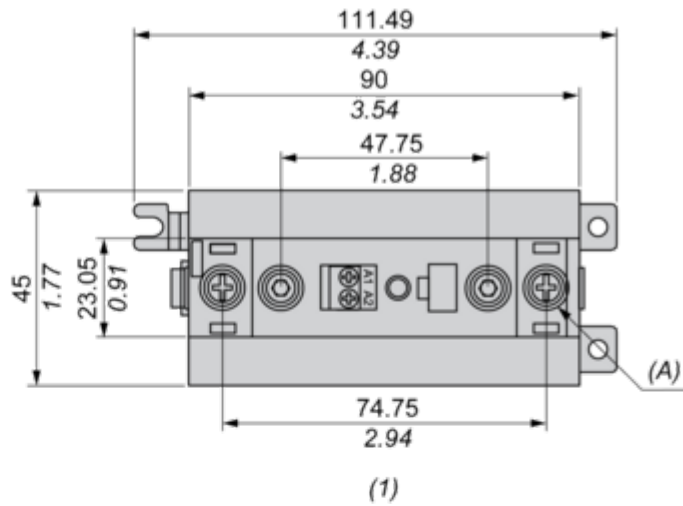
California Proposition 65

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)

Dimensions

Dimensional Tolerances:  $\pm 0.5$  mm / 0.02 In.

mm  
in.

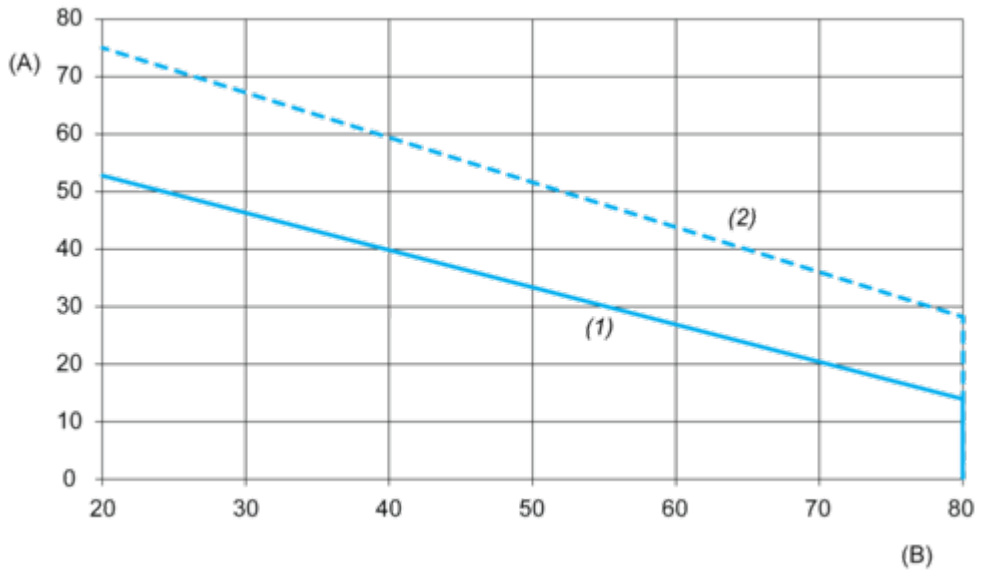


- (1) Front view
- (2) Top view
- (3) Side view
- (A) Screw 8-32 Stud (2 Places)

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