

Product datasheet

Specifications



Harmony, Solid state relay, 60 A,
DIN rail mount, zero voltage
switching, input 90...280 V AC/DC,
output 48...600 V AC

SSD1A360M7C3

⚠ Discontinued

⚠ Discontinued on: 15 Aug 2024

Price: 2,484.30 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 spring 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	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 ² , AWG 26...AWG 12 for input Clamp terminal, clamping connection capacity: 10...26.67 mm ² , 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	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	3...4 mA
solid state switching type	Zero voltage switching
Load current	0.15...60 A

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

transient overvoltage	1200 V
Inrush current	1350 A at 60 Hz
Maximum voltage drop	<1.2 V on-state
motor controller rating	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
Electromagnetic compatibility	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 Surge immunity test 1 kV criteria B input ports line to line conforming to IEC 61000-4-5 Surge immunity test 2 kV criteria B 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
device form designation	Form 5 semiconductor output DOL contactor
Maximum I²t for fusing	8320 A ² .s for 10 ms 7593 A ² .s for 8.33 ms
Maximum leakage current	1 mA off-state
DV/dt	500 V/μs off-state at maximum rated voltage
Response time	20 ms (turn-on) 30 ms (turn-off)
Power factor	0.5 with maximum load
short circuit protection coordination	Type 1 Type 2
Overvoltage category	III
Width	45 mm
Height	111.5 mm
Depth	154.4 mm
test button	Without test button
Net weight	0.507 kg
Device presentation	Complete product

Environment

Flammability rating	V-0 conforming to UL 94
Vibration resistance	0.35 mm (f = 10...150 Hz) conforming to IEC 60068-2-6

Shock resistance	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
Pollution degree	2
Standards	IEC 61373:class B: category 1 IEC 60947-4-3 IEC 62314 IEC 60950-1 CSA C22.2 No 14-13 UL 508
IP degree of protection	IP20
Ambient air temperature for operation	-40...80 °C
Ambient air temperature for storage	-40...100 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.3 cm
Package 1 Width	12.0 cm
Package 1 Length	14.5 cm
Package 1 Weight	556.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.03 kg

Contractual warranty

Warranty (in months)	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	633 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	7 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	626 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.

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)
SCIP Number	134201bc-d293-4667-9cca-10a7f11729e0
REACH Regulation	REACH Declaration

Use Longer



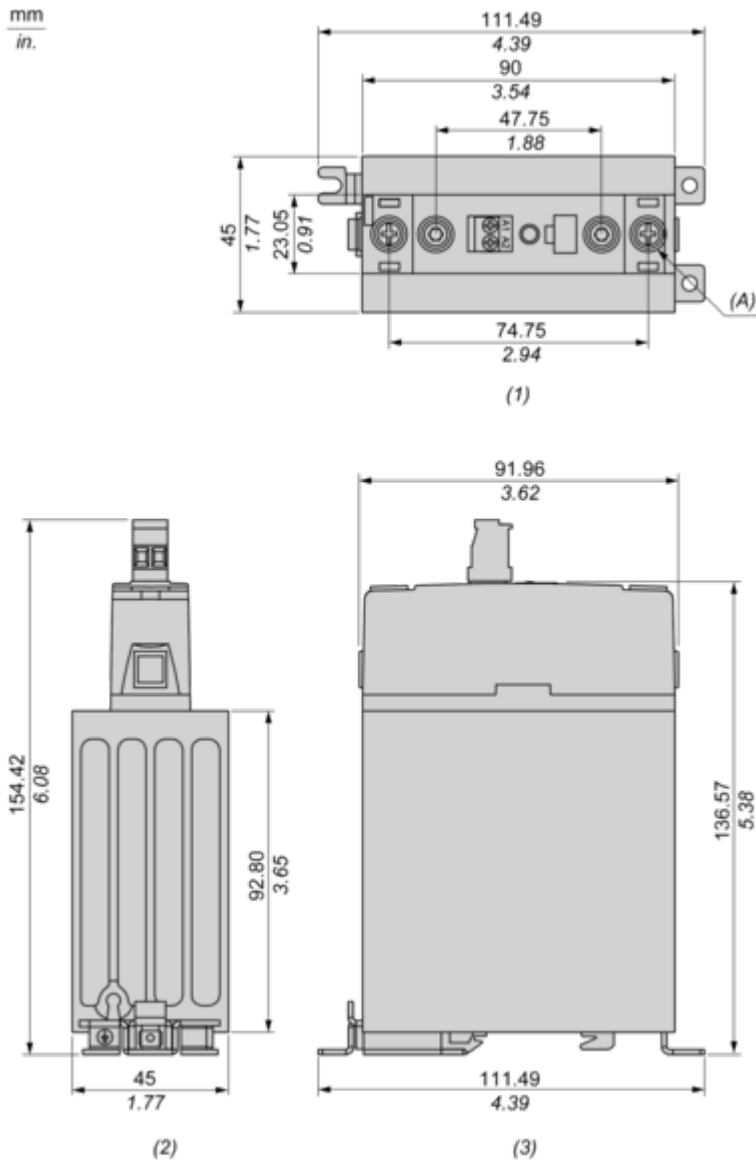
Lifetime extension

Repair	No
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Dimensions Drawings

Dimensions

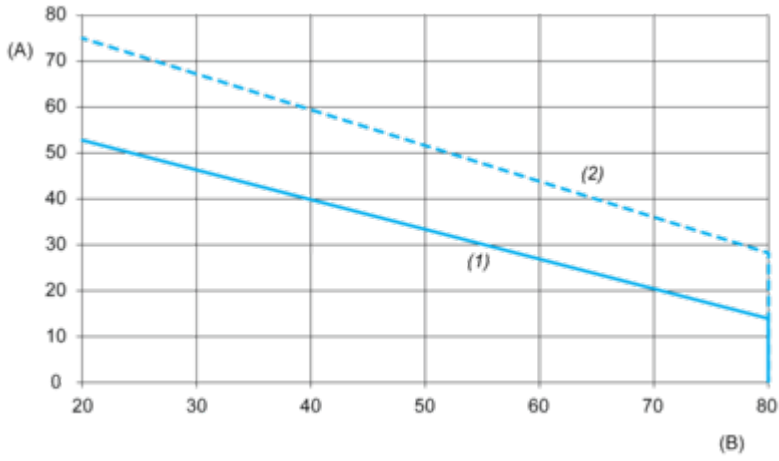
Dimensional Tolerances: ± 0.5 mm / 0.02 In.



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

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 22.5 mm

Technical Illustration

Dimensions

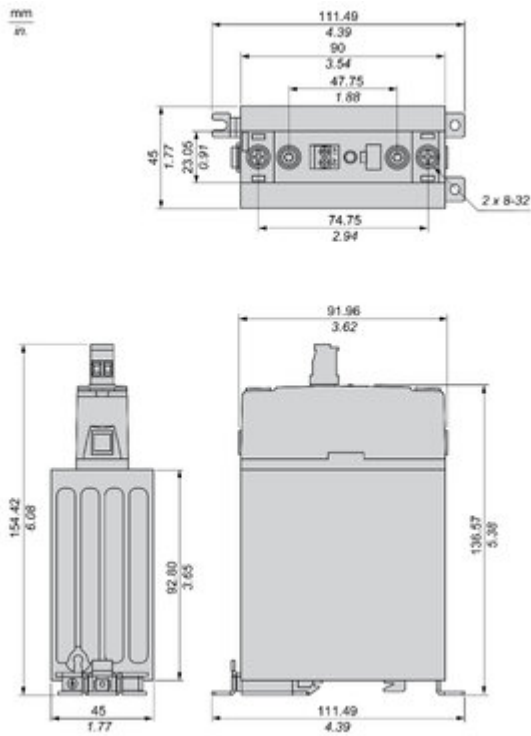


Image of product / Alternate images

Alternative

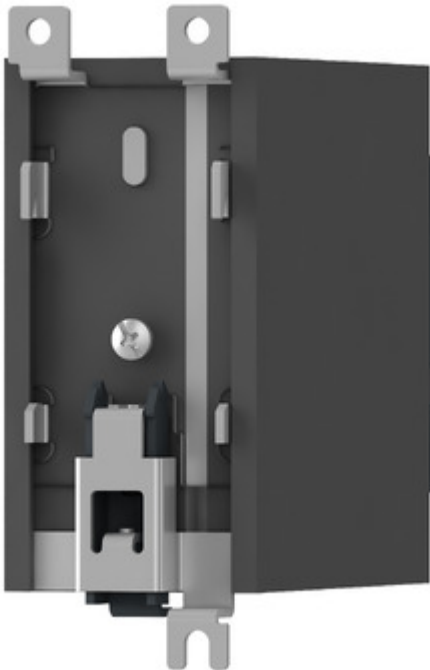






Image of product in real life situation

