

DIN rail mount relay, Harmony Solid State Relays, 20A, zeroVoltage switching, input 90…280V AC/DC, output 48...600V AC

SSD1A320M7C1

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

Price*: 65.03 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	Relay configuration	
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715	
rated current	20 A	
Output switching mode	Zero voltage switching	

Complementary

operating frequency	47440 Hz
Rated duty	Uninterrupted
Output voltage	48600 V AC
control circuit voltage	90280 V AC/DC
Tightening torque	1.51.7 N.m for control input 1315 lb.in for control input 1.51.7 N.m for load output 1315 lb.in for load output
Connections - terminals	Screw terminals, clamping connection capacity:14 mm², AWG 18AWG 12 for input Screw terminals, clamping connection capacity:16 mm², AWG 18AWG 10 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	610 mA
solid state switching type	Zero voltage switching

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

Load current	0.120 A
transient overvoltage	1200 V
Inrush current	300 A at 60 Hz
Maximum voltage drop	<1.3 V on-state
motor controller rating	0.37 kW/0.5 hp at 120 V AC
	1.12 kW/1.5 hp at 240 V AC 2.24 kW/3 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, 0.1580 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 MHz1
	GHz criteria A conforming to IEC 61000-4-3
	Radiated radio-frequency electromagnetic field immunity test 3 V/m, 1.42 GHz criteria A conforming to IEC 61000-4-3
	Radiated radio-frequency electromagnetic field immunity test 1 V/m, 22.7 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
device form designation	Form 5 semiconductor output DOL contactor
Maximum I²t for fusing	409 A².s for 10 ms
	375 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	0.9 in (22.5 mm)
Height	3.7 in (93.2 mm)
Depth	4.6 in (116.5 mm)
test button	Without test button
Net Weight	0.657 lb(US) (0.298 kg)
Device presentation	Complete product
Environment	
Flammability rating	V-0 conforming to UL 94
Vibration resistance	0.75 mm (f = 10150 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	-40176 °F (-4080 °C)
Ambient Air Temperature for Storage	-40212 °F (-40100 °C)

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3606489807832
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.98 in (2.5 cm)
Package 1 Width	3.66 in (9.3 cm)
Package 1 Length	5.51 in (14.0 cm)
Package 1 Weight	11.4 oz (322.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	18.047 lb(US) (8.186 kg)

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

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Take-Back

No

Well-being performance



Mercury Free



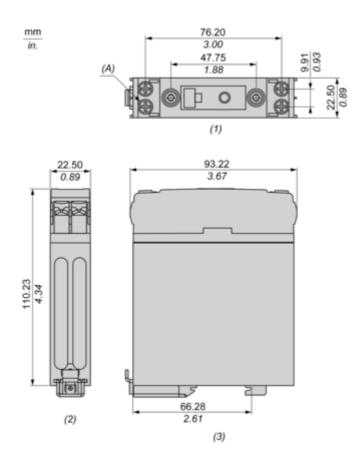
Rohs Exemption Information

Yes

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
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
Scip Number	134201bc-d293-4667-9cca-10a7f11729e0

Dimensions Drawings

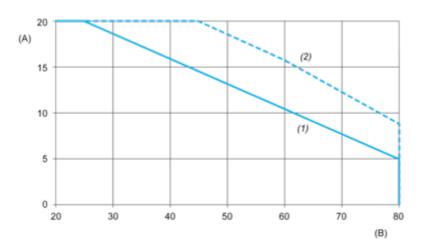
Dimensions



- (1) Front view
- (2) Top view
- (3) Side view
- (A) Screw M4 Stud (4 Places)

Performance Curves

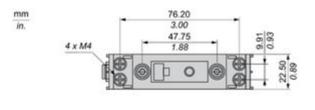
Derating Curves



- 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



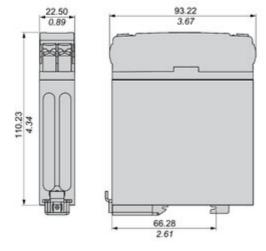


Image of product / Alternate images

Alternative









