

DIN rail mount relay, Harmony Solid State Relays, 20A, DC switching, input 4 to 32V DC, output 1 to 150V DC

SSD1D520BDC1

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

Price*: 94.59 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	DC switching	

Complementary

Rated duty	Uninterrupted	
Output voltage	1150 V DC	
control circuit voltage	432 V 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	3.75 kV AC for input/output circuit 3.75 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	1115 mA	
solid state switching type	DC switching	
Load current	0.00520 A	

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

Inrush current	58 A for 10 ms		
Maximum voltage drop	<0.68 V on-state		
motor controller rating	0.25 kW/0.33 hp at 120 V DC		
Electromagnetic compatibility	Electrostatic discharge 4 kV criteria A contact discharge conforming to IEC 61000-4-2 Electrostatic discharge 4 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 A output ports conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test 1 kV, 5/100 kHz criteria A 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 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		
device form designation	Form 5 semiconductor output DOL contactor		
Resistance	0.034 Ohm on-state		
Maximum leakage current	0.1 mA off-state		
Response time	75 μs (turn-on) 100 μs (turn-off)		
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 CSA C22.2 No 14-13 UL 508		

Ordering and shipping details

IP20

-40...176 °F (-40...80 °C)

-40...212 °F (-40...100 °C)

IP degree of protection

Ambient Air Temperature for Operation

Ambient Air Temperature for Storage

Category	US10CP222375	
Discount Schedule	0CP2	
GTIN	3606489807757	
Returnability	Yes	
Country of origin	US	

Packing Units

•	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.10 in (2.8 cm)
Package 1 Width	3.86 in (9.8 cm)
Package 1 Length	5.51 in (14.0 cm)
Package 1 Weight	11.3 oz (320.0 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	17.864 lb(US) (8.103 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 >

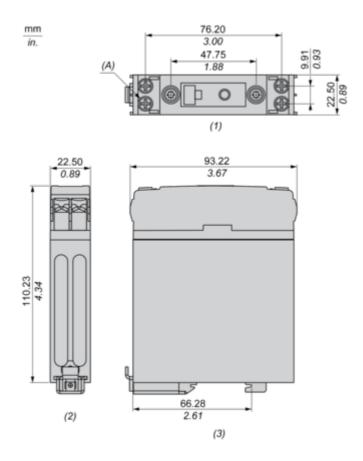
Resource performance

ake-Back			No
	ake-Back	ake-Back	ake-Back

Well-being performance				
Reach Free Of Svhc				
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			

Dimensions Drawings

Dimensions

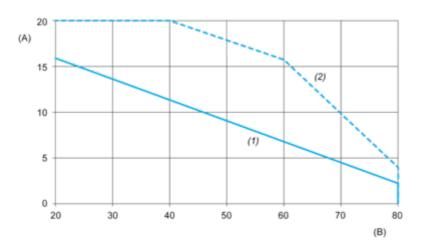


- (1) Front view
- (2) Top view
- (3) Side view
- (A) Screw M4 Stud (4 Places)

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Performance Curves

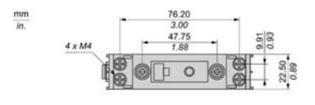
Derating Curves



- 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



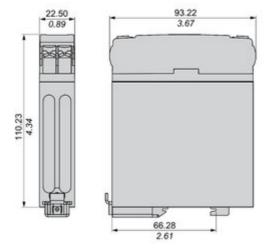


Image of product / Alternate images

Alternative









