Specifications



DIN rail mount relay, Harmony Solid State Relays, 45A, zeroVoltage switching, contactor configuration , input 4 to 32V DC, output 48 to 600V AC

SSD1A345BDC3

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

Price*: 92.23 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	Contactor configuration with pluggable spring input
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715
rated current	45 A
Output switching mode	Zero voltage switching

Complementary

operating frequency	47440 Hz
Rated duty	Uninterrupted
Output voltage	48600 V AC
control circuit voltage	432 V DC
Tightening torque	22.2 N.m for load output 1820 lb.in for load output
Connections - terminals	Plug-inspring terminals, clamping connection capacity:0.133.30 mm ² , AWG 26AWG 12 for input Clamp terminal, clamping connection capacity:1026.67 mm ² , AWG 8AWG 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	1015 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.

Invash current 750 A at 60 Hz Maximum voltage drop 1.25 V on-state motor controller rating D.75 kW/1 hp at 120 V AC 2.24 kW/3 hp at 240 V AC 2.73 kW/5 hp at 480 V AC Electromagnetic compatibility Electrostic discharge 6 kV criteria A contact discharge conforming to IEC 6100-4-2 Electrotal fast transient/burst immunity test 2 kV, 5/100 kHz criteria B output ports conforming to IEC 61000-4-4 Electrotal fast transient/burst immunity test 2 kV, 5/100 kHz criteria B input ports conforming to IEC 61000-4-4 Electrotal fast transient/burst immunity test 1 kV, 5/100 kHz criteria B input ports conforming to IEC 61000-4-3 Radiated radio-frequency electromagnetic field immunity test 1 V/m, 20.422 Criteria A conforming to IEC 61000-4-3 Radiated radio-frequency electromagnetic field immunity test 1 V/m, 20.422 Criteria A conforming to IEC 61000-4-3 Surge immunity test 1 KV criteria B output ports inne to line conforming to IEC 6100-4-3 Surge immunity test 1 KV criteria B output ports inne to line conforming to IEC 6100-4-3 Surge immunity test 1 KV criteria B output ports inne to line conforming to IEC 6100-4-3 Surge immunity test 1 KV criteria B output ports inne to line conforming to IEC 6100-4-3 Surge immunity test 1 KV criteria B output ports inne to line conforming to IEC 6100-4-3 Surge immunity test 1 KV criteria B output ports in	Load current	0.145 A
Maximum voltage drop <1.25 V on-state motor controller rating 0.75 KWI hp at 20 V AC 2.24 KWI3 hp at 480 V AC Electromagnetic compatibility Electrostatic discharge 6 kV criteria A contact discharge conforming to IEC 61000-4.2 Electronalization of the control	transient overvoltage	1200 V
motor controller rating 0.75 kW/1 hp at 120 V AC 2.24 kW/3 hp at 240 V AC 3.73 kW/5 hp at 240 V AC 3.73 kW/5 hp at 240 V AC Electromagnetic compatibility Electrostatic discharge 6 kV criteria A contact discharge conforming to IEC 61000-4.2 Electroal 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 output ports 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 61000-4.3 Surge immunity test 2 kV criteria B output ports line to line conforming to IEC 61000-4.3 Surge immunity test 2 kV criteria B output ports line to line conforming to IEC 61000-4.3 Surge immunity test 2 kV criteria B output ports line to line conforming to IEC 61000-4.4 Radiated radio-frequency electromagnetic field immunity test 1 V/m, 22.7 GHz criteria A conforming to IEC 61000-4.4 Immunity test 2 kV criteria B output ports line to line conforming to IEC 61000-4.4 Surge immunity test 2 kV criteria B output ports line to line conforming to IEC 61000-4.4 Surge immunity test 2 kV criteria B output ports line to	Inrush current	750 A at 60 Hz
2.24 kW/3 hp at 240 V AC 3.73 kW/5 hp at 480 V AC 3.73 kW/5 hp at 480 V AC Biectrostatic 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 61000-4.4 Electrical fast transient/burst immunity test 2 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 1 V/m, 22.7 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 Radiated emission environment B for DC input supply conforming to IEC 61000-4.5 Surge immunity test 1 kV criteria B output ports line to earth conforming to IEC 61000-4.4 Radiated emission environment B for DC input supply conforming to IEC 61000-4.4 Radiated emission environment B for DC input supply conforming to IEC 61000-4.1 Immunity to microbreaks and voltage drops 30 %, 500 ms criteria B conforming to IEC 61000-4.1 device form designation Form 5 semiconductor output DOL contactor Maximum IPt for fusing 2663 A*, 5 for 10 ms	Maximum voltage drop	<1.25 V on-state
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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 device form designation Form 5 semiconductor output DOL contactor Maximum I²t for fusing 2563 A².s for 10 ms 2343 A².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 0.5 cycle (turn-on) 0.5 cycle (turn-off) Power factor 0.5 with maximum load short circuit protection Type 1 Type 2 Overvoltage category III Width 1.8 in (45 mm) Height 4.4 in (111.5 mm) Depth 6.08 in (154.4 mm) test button Without test button		Surge immunity test 1 kV criteria B output ports line to line conforming to IEC
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2343 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 0.5 cycle (turn-on) 0.5 cycle (turn-off) Power factor 0.5 with maximum load short circuit protection coordination Type 1 Type 2 Overvoltage category III Width 1.8 in (45 mm) Height 4.4 in (111.5 mm) Depth 6.08 in (154.4 mm) test button Without test button Net Weight 1.118 lb(US) (0.507 kg)	device form designation	Form 5 semiconductor output DOL contactor
DV/dt 500 V/µs off-state at maximum rated voltage Response time 0.5 cycle (turn-on) 0.5 cycle (turn-off) Power factor 0.5 with maximum load short circuit protection coordination Type 1 Type 2 Overvoltage category III Width 1.8 in (45 mm) Height 4.4 in (111.5 mm) Depth 6.08 in (154.4 mm) test button Without test button Net Weight 1.118 lb(US) (0.507 kg)	Maximum I ² t for fusing	
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Width 1.8 in (45 mm) Height 4.4 in (111.5 mm) Depth 6.08 in (154.4 mm) test button Without test button Net Weight 1.118 lb(US) (0.507 kg)	short circuit protection coordination	
Height 4.4 in (111.5 mm) Depth 6.08 in (154.4 mm) test button Without test button Net Weight 1.118 lb(US) (0.507 kg)	Overvoltage category	III
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test button Without test button Net Weight 1.118 lb(US) (0.507 kg)	Height	4.4 in (111.5 mm)
Net Weight 1.118 lb(US) (0.507 kg)	Depth	6.08 in (154.4 mm)
	test button	Without test button
Device presentation Complete product	Net Weight	1.118 lb(US) (0.507 kg)
	Device presentation	Complete product

Environment

Flammability rating	V-0 conforming to UL 94
Vibration resistance	0.35 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	3606489808037
Returnability	No
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.09 in (5.3 cm)
Package 1 Width	4.72 in (12.0 cm)
Package 1 Length	5.71 in (14.5 cm)
Package 1 Weight	19.8 oz (560.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	10
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	13.356 lb(US) (6.058 kg)

Sustainability

Green Premium[™] 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

C Take-Back	No
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Well-being performance

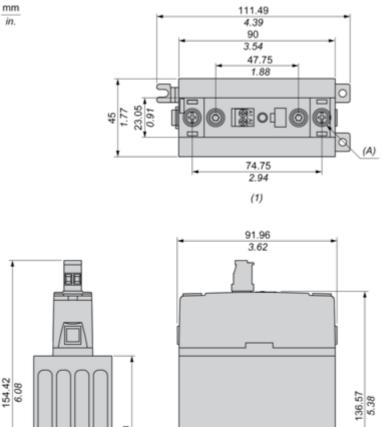
Mercury Free	
Rohs Exemption Information	Yes
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and 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

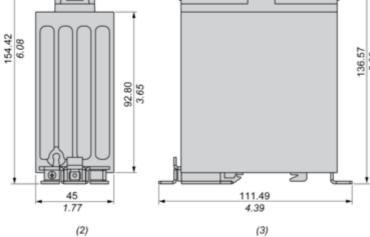
Product data sheet

Dimensions Drawings

Dimensions

Dimensional Tolerances:+-0.5 mm / 0.02 In.





(1) Front view

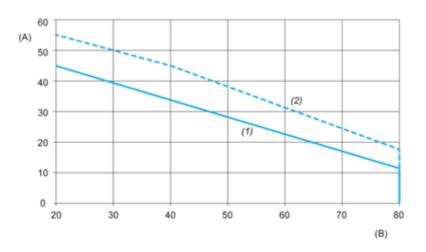
(2) Top view

(3) Side view

(A) Screw 8-32 Stud (2 Places)

Performance Curves

Derating Curves



A : Load Current (Amperes)

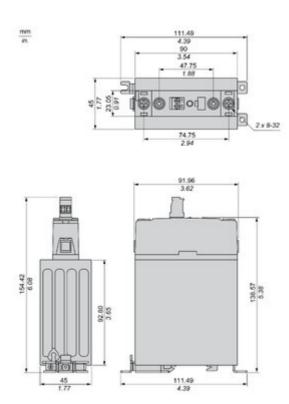
B : Ambient Temperature (°C)

1 : Multiple units, no minimum spacing between components

2 : Installed single unit, distance to adjacent components more than 22.5 mm

Technical Illustration

Dimensions



Product data sheet SSD1A345BDC3

Image of product / Alternate images

Alternative





Nov 19, 2024

Product data sheet SSD1A345BDC3





Product data sheet SSD1A345BDC3



Nov 19, 2024