Product data sheet

Specifications





Harmony, Solid state relay, 20 A, DIN rail mount, zero voltage switching, input 4...32 V DC, output 48...600 V AC

SSD1A320BDC2

Main

e Relays
1- 00 4
to 20 A
tion with pluggable screw input
DIN rail conforming to EN/IEC 60715
ing
nput put output output
als, clamping connection capacity:0.083.30 mm², AWG 28AWG 12 for input lamping connection capacity:0.7510 mm², AWG 20AWG 8 for output
itput circuit output to case
t circuit put to case
V DC
trol voltage
ing



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 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 Surge immunity test 1 kV criteria A output ports line to line conforming to IEC 61000-4-5 Surge immunity test 2 kV criteria B output ports line to line 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
Device form designation	Form 5 semiconductor output DOL contactor
Maximum I ² t for fusing	409 A².s for 10 ms 375 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 coordination	Туре 1 Туре 2
Overvoltage category	III
Width	22.5 mm
Height	91.9 mm
Depth	133.8 mm
Net weight	0.301 kg
Device presentation	Complete product
Environment	
Flammability rating	V-0 conforming to UL 94
Vibration resistance	0.75 mm (f = 10150 Hz) conforming to EN/IEC 60068-2-6

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Vibration resistance	0.75 mm (f = 10150 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	50 gn for 11 ms (peak acceleration) , longitudinal position conforming to EN/IEC 60068-2-27 30 gn for 11 ms (peak acceleration) , vertical position conforming to EN/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	-4080 °C
Ambient air temperature for	-40100 °C

Ambient air temperature for -40.. storage

Packing Units

<u> </u>	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.8 cm
Package 1 Width	14 cm
Package 1 Length	2.5 cm
Package 1 Weight	324 g
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	8.228 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
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 mor information go to www.P65Warnings.ca.gov

Product data sheet

Dimensions Drawings

Dimensions



- (1) (2) (3) (A) Front view
- Top view . Side view
- Screw 8-32 Stud Elevator Profile 1/4 48 UNS (2 Places)

Product data sheet

Performance Curves

Derating Curves



- A: B: 1: 2:
- Load Current (Amperes) Ambient Temperature (°C) Multiple units, no minimum spacing between components Installed single unit, distance to adjacent components more than 22.5 mm

Recommended replacement(s)