# Product data sheet Characteristics

## SSD1A360M7RC2

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





#### Main

Range of Product	Harmony Solid State Relays
Product or Component Type	Solid state relay up to 75 A
Device short name	SSD1
Number of Channels	1
Number of phases	1 phase
Product configuration type	Contactor configuration with pluggable screw input
Mounting support	35 mm symmetrical DIN rail conforming to EN/IEC 60715
Rated current	60 A
Output switching mode	Random voltage switching

#### Complementary

Complementary	
Operating frequency	47440 Hz
Rated duty	Uninterrupted
Output voltage	48600 V AC
Control circuit voltage	90280 V AC/DC
Tightening torque	0.5 N.m for control input 5 lb.in for control input 22.2 N.m for load output 1820 lb.in for load output
Connections - terminals	Plug-inscrew terminals, clamping connection capacity:0.083.30 mm², AWG 28AWG 12 for input Clamp terminal, clamping connection capacity:1026.67 mm², 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	90 V AC/DC turn-on
Drop-out voltage	5 V AC/DC turn-off
Input current range	34 mA
Solid state switching type	Random voltage switching
Load current	0.1560 A
Transient overvoltage	1200 V
Inrush current	1350 A
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

IEC 60950-1 CSA C22.2 No 14-13
IEC 62314 IEC 60950-1
IEC 61373:class B: category 1 IEC 60947-4-3
2 IEC 61273:class B: catagony 1
60068-2-27
30 gn for 11 ms (peak acceleration) , vertical position conforming to EN/IEC
50 gn for 11 ms (peak acceleration) , longitudinal position conforming to EN/IEC 60068-2-27
0.35 mm 10150 Hz) EN/IEC 60068-2-6
V-0 conforming to UL 94
Complete product
1.12 lb(US) (0.507 kg)
6.08 in (154.4 mm)
4.39 in (111.5 mm)
1.77 in (45 mm)
III
Type 1 Type 2
With maximum load
20 ms (turn-on) 30 ms (turn-off)
500 V/µs off-state at maximum rated voltage
1 mA off-state
8320 A².S for 10 ms 7593 A².s for 8.33 ms
Form 5 semiconductor output DOL contactor
IEC 61000-4-11 Immunity to microbreaks and voltage drops 100 %, 20 ms criteria B conforming to IEC 61000-4-11
60947-4-3 Immunity to microbreaks and voltage drops 30 %, 500 ms criteria A conforming to
60947-4-3 Conducted emission environment A for AC input supply conforming to IEC
61000-4-5 Radiated emission environment B for AC input supply conforming to IEC
61000-4-5 Surge immunity test 2 kV criteria B input 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 output ports line to earth conforming to IEC
criteria A conforming to IEC 61000-4-3 Surge immunity test 1 kV criteria B output ports line to line conforming to IEC
criteria A conforming to IEC 61000-4-3 Radiated radio-frequency electromagnetic field immunity test 1 V/m, 22.7 GHz
Radiated radio-frequency electromagnetic field immunity test 3 V/m, 1.42 GHz
Radiated radio-frequency electromagnetic field immunity test 10 V/m, 80 MHz1 GHz criteria A conforming to IEC 61000-4-3
Electrical fast transient/burst immunity test 1 kV, 5/100 kHz criteria B input ports conforming to IEC 61000-4-4
conforming to IEC 61000-4-4
IEC 61000-4-6 Electrical fast transient/burst immunity test 2 kV, 5/100 kHz criteria B output ports
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

### Ordering and shipping details

Category	22375-INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3606489808143
Nbr. of units in pkg.	1
Package weight(Lbs)	19.58 oz (555.0 g)
Returnability	Yes

### Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.05 in (5.2 cm)
Package 1 width	4.72 in (12 cm)
Package 1 Length	5.71 in (14.5 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Weight	13.27 lb(US) (6.019 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

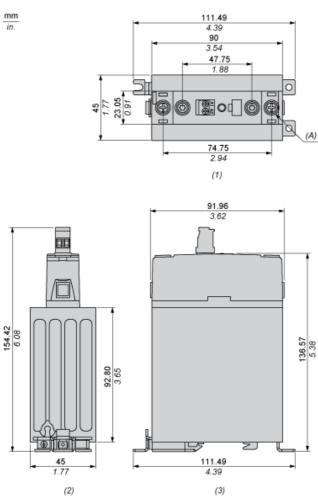
### Offer Sustainability

Sustainable offer status	Green Premium product
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
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EVEL RoHS Declaration
Mercury free	Yes
RoHS exemption information	€Yes
China RoHS Regulation	China RoHS Declaration
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.

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### **Dimensions**

### Dimensional Tolerances:+-0.5 mm / 0.02 ln.

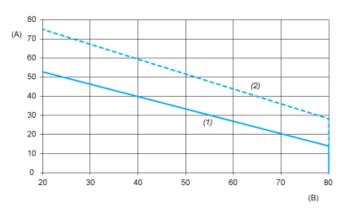


- (1) (2) (3) (A) Front view
- Top view
- Side view
- Screw 8-32 Stud (2 Places)

### Product data sheet **Performance Curves**

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### **Derating Curves**



A: Load Current (Amperes) B: Ambient Temperature (°C)

Multiple units, no minimum spacing between components

1 : 2 : Installed single unit, distance to adjacent components more than 22.5 mm