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# Product data sheet
## Characteristics

# SSD1A335M7RC1
## Harmony, Solid state relay, 35 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 40 A |
| 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 EN/IEC 60715 |
| Rated current | 35 A |
| Output switching mode | Random voltage switching |

### Complementary

| | |
|---|---|
| Operating frequency | 47...440 Hz |
| Rated duty | Uninterrupted |
| Output voltage | 48...600 V AC |
| Control circuit voltage | 90...280 V AC/DC |
| Tightening torque | 1.5...1.7 N.m for control input<br>13...15 lb.in for control input<br>1.5...1.7 N.m for load output<br>13...15 lb.in for load output |
| Connections - terminals | Screw terminals, clamping connection capacity:1...4 mm², AWG 18...AWG 12 for input<br>Screw terminals, clamping connection capacity:1...6 mm², AWG 18...AWG 10 for output |
| Dielectric strength | 4 KV AC for input/output circuit<br>4 kV AC for input or output to case |
| Rated impulse withstand voltage | 6 KV for input/output circuit<br>6 kV for input or output to case |
| Insulation resistance | 1000 MOhm at 500 V DC |
| Local signalling | LED (green) for control voltage |
| Pick-up voltage | 90 V AC/DC turn-on |
| Drop-out voltage | 5 V AC/DC turn-off |
| Input current range | 6…10 mA |
| Solid state switching type | Random voltage switching |
| Load current | 0.15…35 A |
| Transient overvoltage | 1200 V |
| Inrush current | 1350 A at 60 Hz |
| Maximum voltage drop | <1.15 V on-state |
| Motor controller rating | 1.5 KW/2 Hp at 120 V AC<br>3.73 KW/5 Hp at 240 V AC<br>7.46 kW/10 hp at 480 V AC |

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| | |
|---|---|
| Electromagnetic compatibility | Electrostatic discharge 6 kV criteria A contact discharge conforming to IEC 61000-4-2<br>Electrostatic discharge 8 kV criteria A air discharge conforming to IEC 61000-4-2<br>Conducted RF disturbances 10 V, 0.15...80 MHz criteria A level 3 conforming to IEC 61000-4-6<br>Electrical fast transient/burst immunity test 2 kV, 5/100 kHz criteria B output ports conforming to IEC 61000-4-4<br>Electrical fast transient/burst immunity test 1 kV, 5/100 kHz criteria B input ports conforming to IEC 61000-4-4<br>Radiated radio-frequency electromagnetic field immunity test 10 V/m, 80 MHz...1 GHz criteria A conforming to IEC 61000-4-3<br>Radiated radio-frequency electromagnetic field immunity test 3 V/m, 1.4...2 GHz criteria A conforming to IEC 61000-4-3<br>Radiated radio-frequency electromagnetic field immunity test 1 V/m, 2...2.7 GHz criteria A conforming to IEC 61000-4-3<br>Surge immunity test 1 kV criteria A output ports line to line conforming to IEC 61000-4-5<br>Surge immunity test 2 kV criteria A output ports line to earth conforming to IEC 61000-4-5<br>Surge immunity test 1 kV criteria A input ports line to line conforming to IEC 61000-4-5<br>Surge immunity test 2 kV criteria A input ports line to earth conforming to IEC 61000-4-5<br>Radiated emission environment B for AC input supply conforming to IEC 60947-4-3<br>Conducted emission environment A for AC input supply conforming to IEC 60947-4-3<br>Immunity to microbreaks and voltage drops 30 %, 500 ms criteria A conforming to IEC 61000-4-11<br>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 $I^2t$ for fusing | 8320 $A^2.S$ for 10 ms<br>7593 $A^2.s$ 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)<br>30 ms (turn-off) |
| Power factor | 0.5 with maximum load |
| Short circuit protection coordination | Type 1<br>Type 2 |
| Overvoltage category | III |
| Width | 22.5 mm |
| Height | 93.2 mm |
| Depth | 116.5 mm |
| Net weight | 0.298 kg |
| Device presentation | Complete product |

## Environment

| | |
|---|---|
| Flammability rating | V-0 conforming to UL 94 |
| Vibration resistance | 0.75 mm (f = 10…150 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<br>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<br>IEC 60947-4-3<br>IEC 62314<br>IEC 60950-1<br>CSA C22.2 No 14-13<br>UL 508 |
| IP degree of protection | IP20 |
| Ambient air temperature for operation | -20…80 °C |
| Ambient air temperature for storage | -40…100 °C |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Package 1 Length | 14.2 cm |
| Number of Units in Package 1 | 1 |
| Package 2 Width | 30.0 cm |
| Package 2 Height | 15.0 cm |
| Package 2 Weight | 8.197 kg |
| Package 1 Width | 9.3 cm |
| Package 1 Height | 2.9 cm |
| Package 1 Weight | 322.0 g |
| Number of Units in Package 2 | 24 |
| Unit Type of Package 2 | S02 |
| Package 2 Length | 40.0 cm |

## 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 |
| 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 |

## Contractual warranty

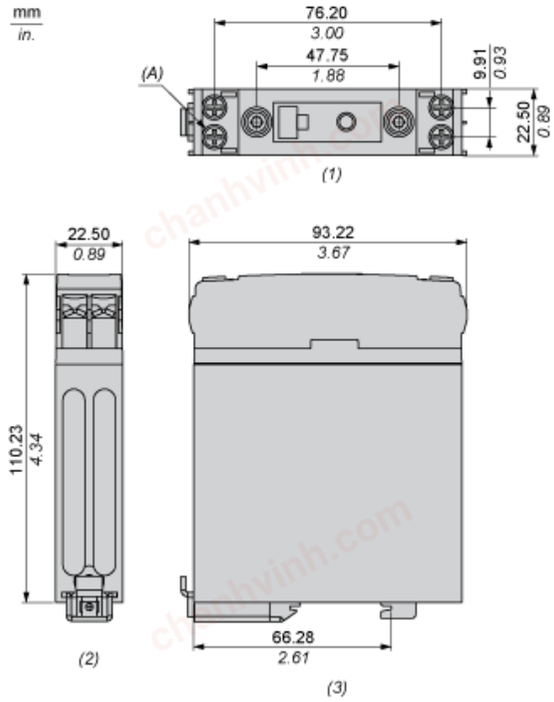
| | |
|---|---|
| Warranty | 18 mois |

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# Product data sheet
## Dimensions Drawings

SSD1A335M7RC1

## Dimensions




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

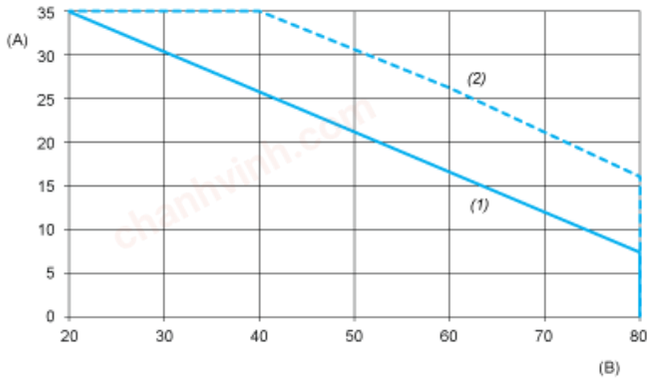

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# Product data sheet
## Performance Curves

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### 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