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Product data sheet
Characteristics

SSD1A335M7C1
Harmony, Solid state relay, 35 A, DIN rail mount, zero voltage 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	Zero 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 13...15 lb.in for control input 1.5...1.7 N.m for load output 13...15 lb.in for load output
Connections - terminals	Screw terminals, clamping connection capacity:1...4 mm², AWG 18...AWG 12 for input Screw terminals, clamping connection capacity:1...6 mm², AWG 18...AWG 10 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	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	Zero 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 3.73 KW/5 Hp at 240 V AC 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 Electrostatic discharge 8 kV criteria A air discharge conforming to IEC 61000-4-2 Conducted RF disturbances 10 V, 0.15...80 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 MHz...1 GHz criteria A conforming to IEC 61000-4-3 Radiated radio-frequency electromagnetic field immunity test 3 V/m, 1.4...2 GHz criteria A conforming to IEC 61000-4-3 Radiated radio-frequency electromagnetic field immunity test 1 V/m, 2...2.7 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 A output ports line to earth conforming to IEC 61000-4-5 Surge immunity test 1 kV criteria A input ports line to line conforming to IEC 61000-4-5 Surge immunity test 2 kV criteria A input ports line to earth conforming to IEC 61000-4-5 Radiated emission environment B for AC input supply conforming to IEC 60947-4-3 Conducted emission environment A for AC 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 I^2t for fusing	8320 $A^2.S$ for 10 ms 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) 30 ms (turn-off)
Power factor	0.5 with maximum load
Short circuit protection coordination	Type 1 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 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	-20…80 °C
Ambient air temperature for storage	-40…100 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.32 cm
Package 1 Width	11.65 cm
Package 1 Length	2.25 cm
Package 1 Weight	320.0 g

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

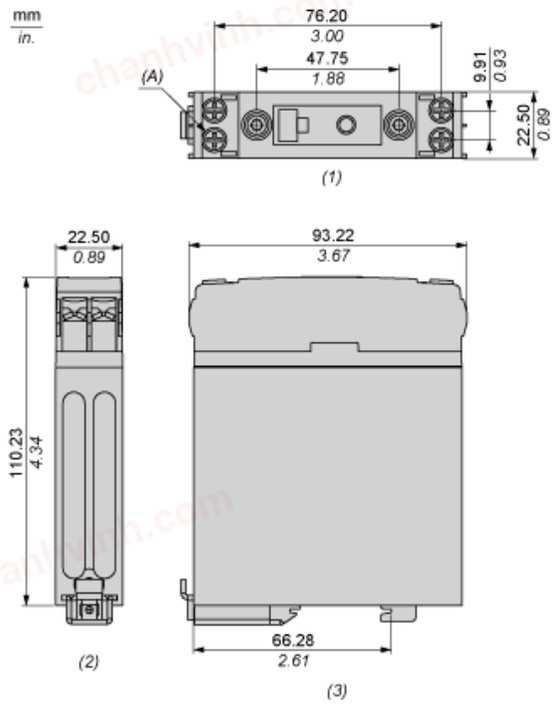
Warranty	18 months

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Dimensions Drawings

Dimensions



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

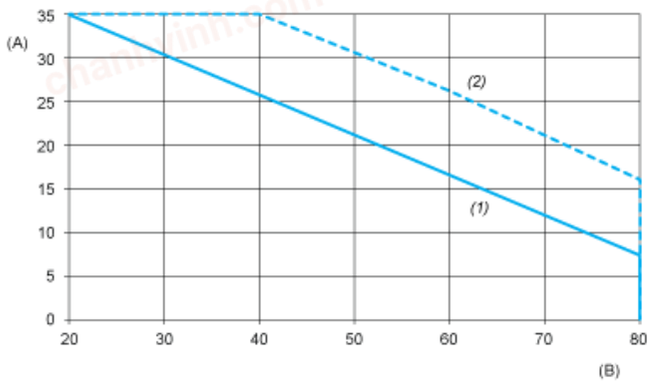
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Performance Curves

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