Product data sheet Characteristics

SSM1A36BD

Harmony Solid State Relays, Solid state modular relay, 6A, DIN rail mount, zero voltage switching, input 4...32V DC, output 48...600V AC





Main

Widin	
Range of product	Harmony Solid State Relays
Product or component type	Solid state relay up to 10 A
Device short name	SSM
Number of channels	1
Number of phases	1 phase
Output switching mode	Zero voltage switching

Complementary

1	
Mounting support	Symmetrical DIN rail
[ln] rated current	6 A
Output voltage	48600 V AC
[Uc] control circuit voltage	432 V DC
Tightening torque	0.50.8 N.m for input 0.50.8 N.m for output
Connections - terminals	Screw terminals: 1 x 0.31 x 1.5 mm², (AWG 22AWG 16) for input Screw terminals: 1 x 0.31 x 2.5 mm², (AWG 22AWG 14) for output
Maximum capacitance	10 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED (green) for input status
Minimum switching voltage	4 V DC turn-on
Maximum switching voltage	1 V DC turn-off
Input current	811 mA
Solid state output type	Zero voltage switching SCR output
Load current	0.156 A
Transient overvoltage	1200 V
Surge current	285 A for 16.6 ms 300 A for 20 ms
Maximum voltage drop	<1.3 V on-state
Motor power hp	0.16 hp 40 °C 240 V AC
Maximum I ² t for fusing	410 A ² .S for 10 ms at 50 Hz 375 A ² .s for 8.33 ms at 60 Hz
Maximum leakage current	0.1 mA off-state
DV/dt	500 V/μs off-state at maximum voltage
Response time	0.5 cycle (turn-on) 0.5 cycle (turn-off)
Power factor	0.5 (with maximum load)
Overvoltage category	III
Width	11 mm
Height	90.3 mm

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Depth	83.7 mm
Net weight	0.05 kg

Environment

Flame retardance	V0 conforming to UL 94
Dielectric strength	4 KV AC for input/output 4 kV AC for input or output to case
Pollution degree	2
Standards	IEC 62314 IEC 61000 IEC 60950-1
Product certifications	UL[RETURN]CSA
Marking	CE
IP degree of protection	IP20
Ambient air temperature for operation	-3080 °C
Ambient air temperature for storage	-30100 °C

Packing Units

•	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.000 cm
Package 1 Width	9.000 cm
Package 1 Length	9.000 cm
Package 1 Weight	64.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	96
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.600 kg

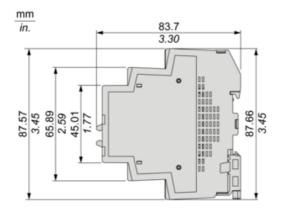
Offer Sustainability

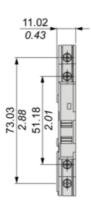
Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☐ End Of Life Information

Product data sheet Dimensions Drawings

SSM1A36BD

Dimensions

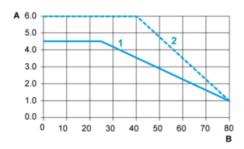




Product data sheet Performance Curves

SSM1A36BD

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 11 mm