

SSM3A325F7

solid state relay - DIN rail mount - input
90-140Vac, output 48-600Vac, 25A



Main

Range of product	Harmony Relay
Product or component type	Solid state relay
Device short name	SSM3
Number of channels	3
Number of phases	3 phases

Complementary

Mounting support	Symmetrical DIN rail
Output voltage	48...600 V AC
[Uc] control circuit voltage	90...140 V AC
Contacts type and configuration	3 NO
Tightening torque	0.6...0.7 N.m for input 1.36...1.7 N.m for output
Connections - terminals	Screw terminals: 0.2...1.3 mm ² , (AWG 24...AWG 16) for input Screw terminals: 1.3...5.3 mm ² , (AWG 16...AWG 10) for output
Maximum capacitance	8 pF for input/output
Insulation resistance	1000 MOhm
Local signalling	LED (green)input status:
Switching voltage	90 V turn-on 10 V turn-off
Input current	15...19 mA
Solid state output type	Zero voltage switching
Load current	0.1...25 A
Transient overvoltage	1100 V
Surge current	286 A for 20 ms at 50 Hz 300 A for 16.6 ms at 60 Hz
Maximum voltage drop	<1.35 V on-state
Motor power hp	1 hp 40 °C 240 V AC 2 hp 40 °C 380 V AC

	3 hp 40 °C 480 V AC
Maximum I ² t for fusing	410 A ² .s for 10 ms at 50 Hz 374 A ² .s for 8.3 ms at 60 Hz
Maximum leakage current	0.25 mA off-state
DV/Dt	500 V/μs off-state at maximum voltage
Response time	30 ms (turn-off) 20 ms (turn-on)
Power factor	0.5 (with maximum load)
Overvoltage category	III
Product weight	0.74 kg

Environment

Dielectric strength	4 kV AC for input/output 4 kV AC for input or output to case
Pollution degree	2
Standards	IEC 60950-1 UL 508 CSA C22.2 No 14
Product certifications	UL EAC CSA
Marking	CSA UL CE EAC
IP degree of protection	IP20
Ambient air temperature for operation	-20...80 °C
Ambient air temperature for storage	-40...100 °C

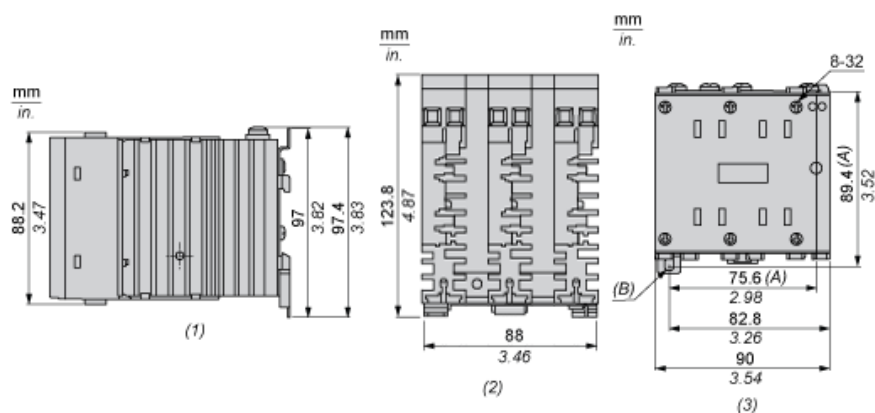
Offer Sustainability

Sustainable offer status	Green Premium product
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

Contractual warranty

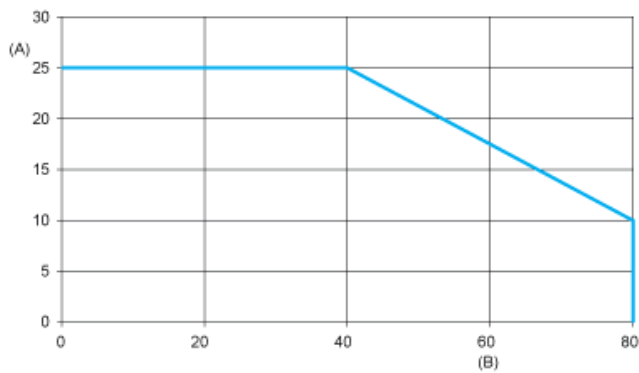
Warranty	18 months
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Dimensions



- (1) Side view
- (2) Top view
- (3) Front view
- (A) Mounting hole
- (B) Mounting hole / slot

Derating Curves



A : Output Current (Arms)
B : Ambient Temperature (°C)