



Main

Range of product	Harmony Relay
Product or component type	Solid state relay
Device short name	SSM1
Number of phases	1 phase

Complementary

Mounting support	Symmetrical DIN rail
[In] rated current	55 A
Output voltage	48...660 V AC
[Uc] control circuit voltage	4...32 V DC
Contacts type and configuration	1 NO
Tightening torque	0.6...0.7 N.m for input 1.36...1.7 N.m for output
Connections - terminals	Screw terminals: 1 x 0.2...1 x 3.3 mm ² , (AWG 24...AWG 12) for input Screw terminals: 1 x 0.2...1 x 8.4 mm ² , (AWG 24...AWG 8) for output
Maximum capacitance	8 pF for input/output
Insulation resistance	1000 MOhm at 500 V DC
Local signalling	LED (green)input status:
Switching voltage	4 V DC turn-on 1 V DC turn-off
Input current	14...17 mA
Solid state output type	SCR output Zero voltage switching
Load current	0.15...55 A
Transient overvoltage	1200 V
Surge current	1000 A for 16.6 ms
Maximum voltage drop	<1.7 V on-state
Maximum I ² t for fusing	4150 A ² .s for 8.3 ms

Maximum leakage current	1 mA off-state
DV/Dt	500 V/ μ s off-state at maximum voltage
Response time	0.5 cycle (turn-on) 0.5 cycle (turn-off)
Overvoltage category	III
Product weight	0.476 kg

Environment

Dielectric strength	4 kV AC for input/output 4 kV AC for input or output to case
Pollution degree	2
Standards	UL 508 IEC 60950-1 CSA C22.2 No 14
Product certifications	UL CSA EAC
Marking	UL EAC CE CSA
IP degree of protection	IP20
Ambient air temperature for operation	-40...80 °C
Ambient air temperature for storage	-40...125 °C

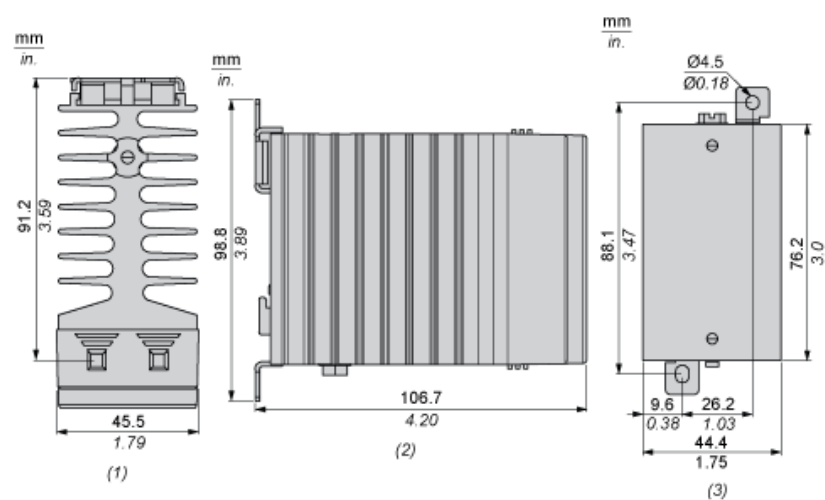
Offer Sustainability

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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

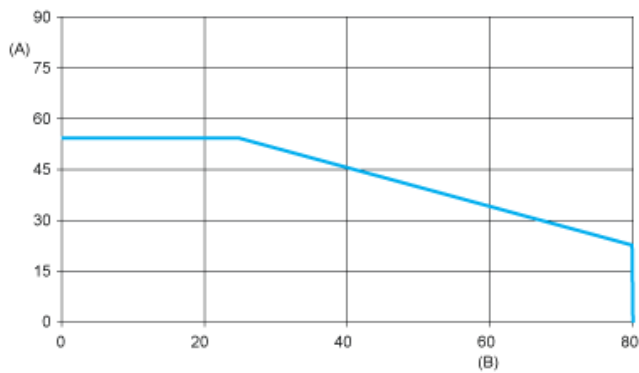
Warranty	18 months
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Dimensions



- (1) Top view
- (2) Side view
- (3) Front view

Derating Curves



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