



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	45 A
Output voltage	24...280 V AC
[Uc] control circuit voltage	3...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	1 V DC turn-off 3 V DC turn-on
Input current	14...17 mA
Solid state output type	SCR output Zero voltage switching
Load current	0.15...45 A
Transient overvoltage	600 V
Surge current	625 A for 16.6 ms
Maximum voltage drop	<1.6 V on-state
Maximum I ² t for fusing	1620 A ² .s for 8.3 ms

Maximum leakage current	10 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	IEC 60950-1 CSA C22.2 No 14 UL 508
Product certifications	CSA UL EAC
Marking	CSA EAC UL CE
IP degree of protection	IP20
Ambient air temperature for operation	-40...80 °C
Ambient air temperature for storage	-40...125 °C

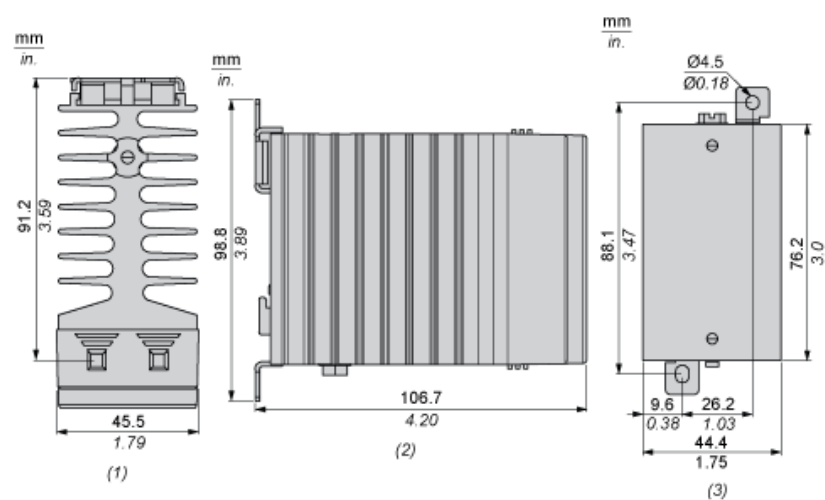
Offer Sustainability

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

Contractual warranty

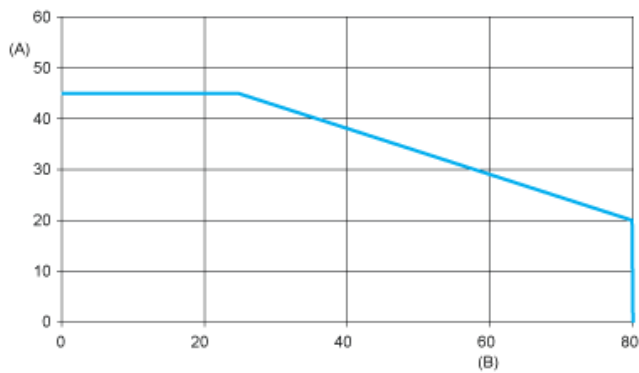
Warranty	18 months
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Dimensions



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

Derating Curves



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