Product data sheet

Specifications



() Discontinued

Harmony, Solid state modular relay, 30 A, DIN rail mount, zero voltage switching, input 92...280 V DC, output 48...660 V AC

SSM1A430M7

- () Discontinued on: Oct 31, 2022
- (!) End-of-service on: Nov 29, 2022

Main

Range Of Product	Harmony Solid State Relays	
Product Or Component Type	Solid state relay up to 30 A	
Device Short Name	SSM1	
Number Of Phases	1 phase	
Output Switching Mode	Zero voltage switching	

Complementary

Mounting Support	Symmetrical DIN rail
[In] Rated Current	30 A
Output Voltage	48660 V AC
[Uc] Control Circuit Voltage	90280 V AC
Tightening Torque	0.60.7 N.m for input 1.361.7 N.m for output
Connections - Terminals	Screw terminals: 1 x 0.21 x 5.3 mm², (AWG 24AWG 10) for input Screw terminals: 1 x 0.21 x 5.3 mm², (AWG 24AWG 10) for output
Maximum Capacitance	8 pF for input/output
Insulation Resistance	1000 MOhm at 500 V DC
Local Signalling	LED (green) for input status
Switching Voltage	90 V AC turn-on 10 V AC turn-off
Input Current	210 mA
Solid State Output Type	SCR output Zero voltage switching
Load Current	0.1530 A
Transient Overvoltage	1200 V
Surge Current	1200 A for 16.6 ms
Maximum Voltage Drop	<1.6 V on-state
Maximum I ² T For Fusing	6000 A ² .s for 8.3 ms
Maximum Leakage Current	1 mA off-state
Dv/Dt	500 V/μs off-state at maximum voltage

Response Time	10 ms (turn-on) 40 ms (turn-off)
Overvoltage Category	III
Net Weight	0.28 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	UL CSA EAC
Marking	CE EAC UL CSA
Ip Degree Of Protection	IP20
Ambient Air Temperature For Operation	-4080 °C
Ambient Air Temperature For Storage	-40125 °C

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.1 cm
Package 1 Width	11.0 cm
Package 1 Length	11.0 cm
Package 1 Weight	296.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	24
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.539 kg

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



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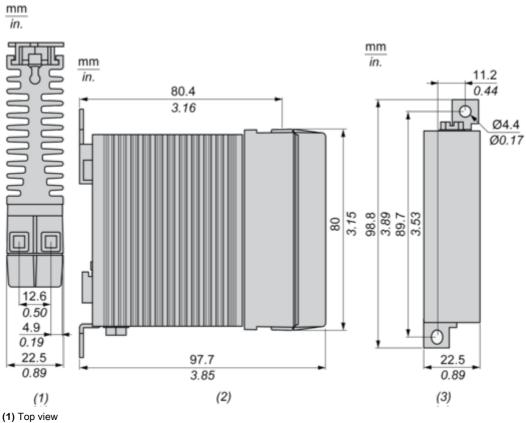
Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Dimensions Drawings

Dimensions

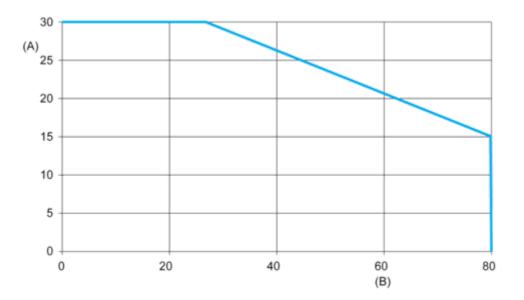


⁽²⁾ Side view (3) Front view

Product data sheet

Performance Curves

Derating Curves



A : Load Current (Amperes)

B : Ambient Temperature (°C)