Product datasheet

Specifications

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

SSM3A325F7

Main

Range Of Product	Harmony Solid State Relays
Product Or Component Type	Solid state relay up to 30 A
Device Short Name	SSM3
Number Of Channels	3
Number Of Phases	3 phases
Output Switching Mode	Zero voltage switching

Complementary

Mounting Support	Symmetrical DIN rail
[In] Rated Current	25 A
Output Voltage	48...600 V AC
[Uc] Control Circuit Voltage	90...140 V AC
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 mm², (AWG 24...AWG 16) for input Screw terminals: 1.3...5.3 mm², (AWG 16...AWG 10) for output
Maximum Capacitance	8 pF for input/output
Insulation Resistance	1000 MOhm
Local Signalling	LED (green) for 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 I²T For Fusing	410 A².s for 10 ms at 50 Hz 374 A².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
Net 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

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	14.0 cm
Package 1 Width	11.0 cm
Package 1 Length	11.0 cm
Package 1 Weight	812.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	5
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.47 kg

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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 ›

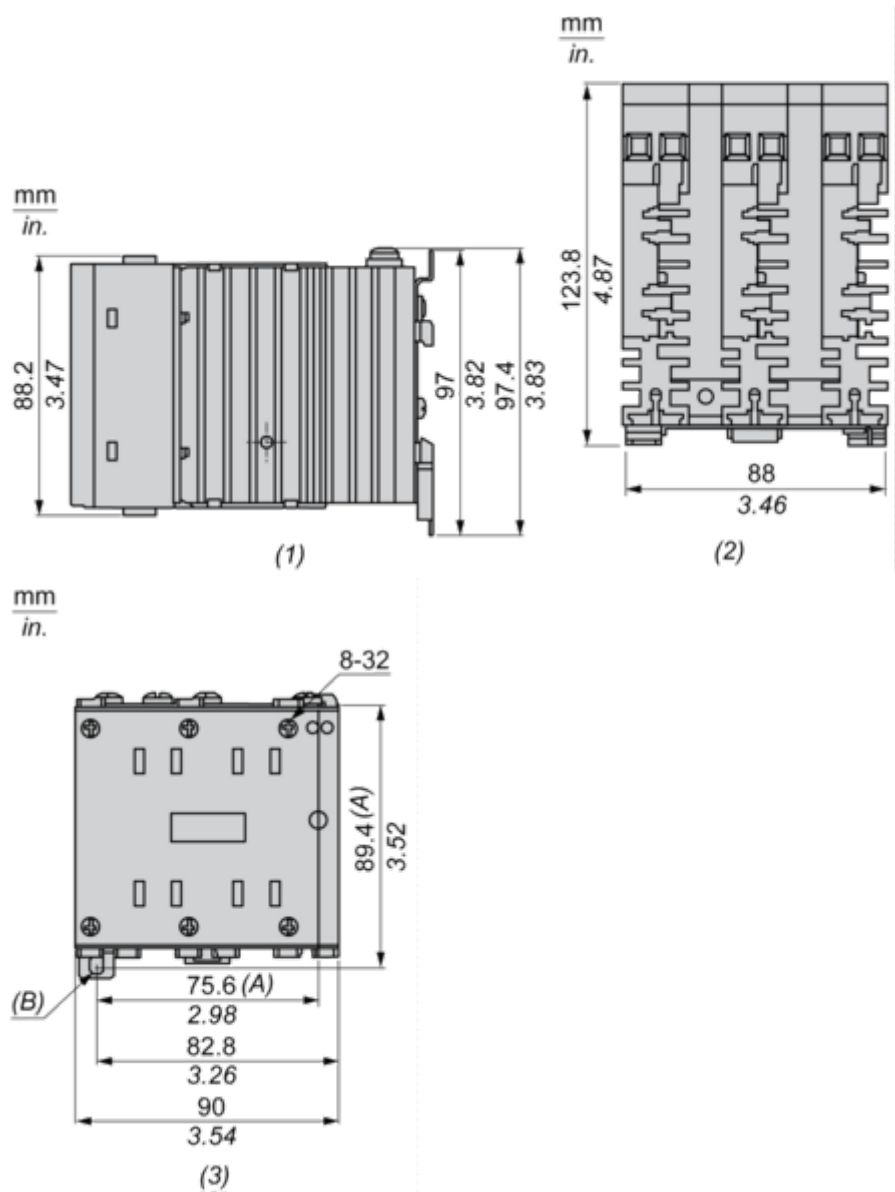Guide to assess a product's sustainability ›

Well-being performance

✅ Mercury Free

✅ Rohs Exemption Information   Yes

Reach Regulation   REACh Declaration

Eu Rohs Directive   Pro-active compliance (Product out of EU RoHS legal scope)

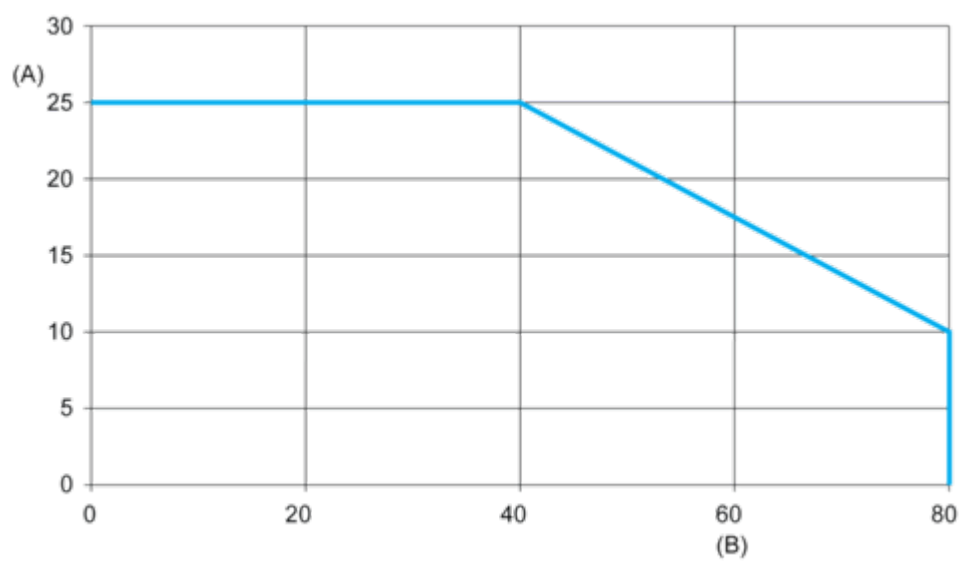**China Rohs Regulation**   China RoHS declaration

Dimensions Drawings

Dimensions

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

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Performance Curves

Derating Curves

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