

# SSM3A325F7

single phase relay, Harmony Solid State Modular Relays, 25A, DIN rail mount, zero voltage switching, input 90 to 140V AC, output 48 to 600V AC



## 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 mm <sup>2</sup> , (AWG 24...AWG 16) for input Screw terminals: 1.3...5.3 mm <sup>2</sup> , (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 I <sup>2</sup> t for fusing	410 A <sup>2</sup> .S for 10 ms at 50 Hz 374 A <sup>2</sup> .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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## 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[RETURN]EAC[RETURN]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

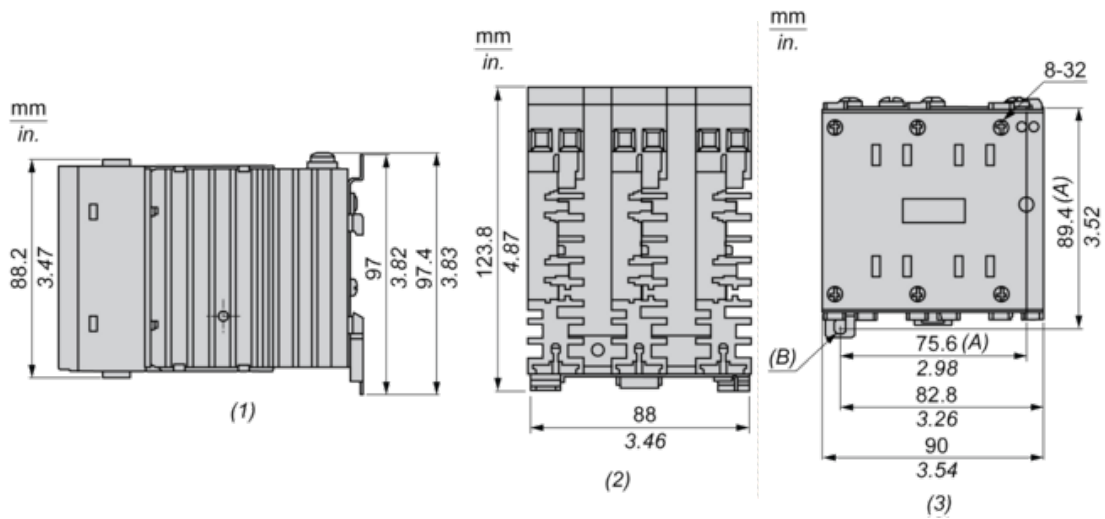
## Packing Units

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

## Offer Sustainability

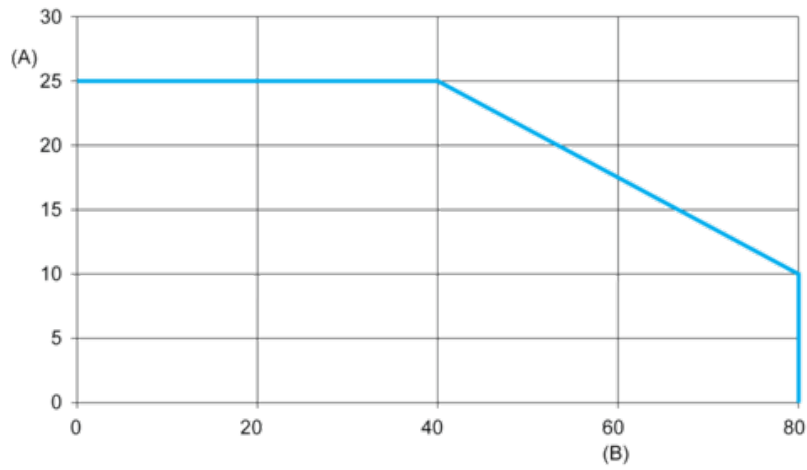
Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

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)