

# SSM3A325BD

single phase relay, Harmony Solid State Modular Relays, 25A, DIN rail mount, zero voltage switching, input 4 to 32V DC, 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 phase
Output switching mode	Zero voltage switching

## Complementary

Mounting Support	Symmetrical DIN rail
Line Rated Current	25 A
Output voltage	48...600 V AC
[Uc] control circuit voltage	4...32 V DC
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) input Screw terminals 1.3...5.3 mm <sup>2</sup> , AWG 16...AWG 10) output
Maximum capacitance	8 pF for input/output
Insulation resistance	1000 MOhm
Local signalling	For input status LED (green)
Switching voltage	4 V DC turn-on 1 V DC turn-off
Input current	22...28 mA
Solid state output type	Zero voltage switching
Load current	0.1...25 A
Transient overvoltage	1100 V
Surge current	286 A 20 ms 50 Hz 300 A 16.6 ms 60 Hz
Maximum voltage drop	<1.35 V on-state
Maximum Horse Power Rating	1 Hp 104 °F (40 °C) 240 V AC 2 Hp 104 °F (40 °C) 380 V AC 3 hp 104 °F (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	0.5 cycle (turn-on) 0.5 cycle (turn-off)
Power factor	0.5 (with maximum load)
Overvoltage category	III
Net Weight	1.63 lb(US) (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	CSA C22.2 No 14 IEC 60950-1 UL 508
Product Certifications	CSA[RETURN]UL[RETURN]EAC
Marking	EAC CSA UL CE
IP degree of protection	IP20
Ambient Air Temperature for Operation	-4...176 °F (-20...80 °C)
Ambient Air Temperature for Storage	-40...212 °F (-40...100 °C)

## Ordering and shipping details

Category	22375-INTERFACE MODULE(ABA,R,S)
Discount Schedule	CP2
GTIN	3606485441719
Returnability	Yes
Country of origin	MX

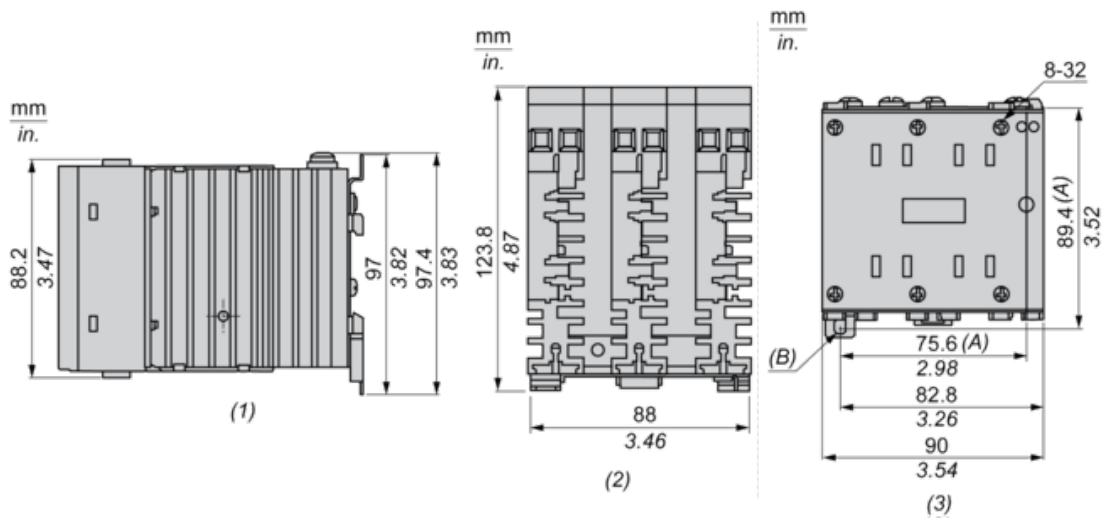
## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.51 in (14.000 cm)
Package 1 Width	4.33 in (11.000 cm)
Package 1 Length	4.33 in (11.000 cm)
Package 1 Weight	26.95 oz (764.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	9.43 lb(US) (4.278 kg)

## Offer Sustainability

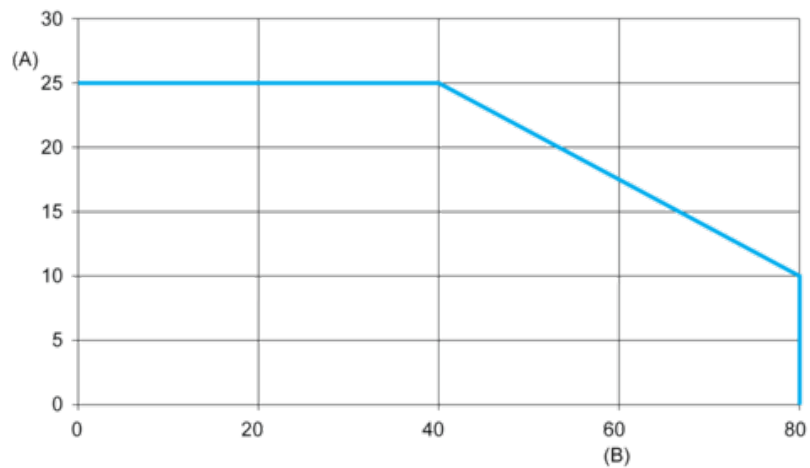
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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)