

# Product datasheet

Specifications



pre Assembled, Harmony Solid State Relays, 25A, DIN rail mount, random switching, input 4...32V DC, output 48...600V AC

SSM3A325BDR

## Main

Range of product	Harmony Solid State Relays
Product or component type	Modular DIN rail relay
Device short name	SSM3
number of channels	3
Number of phases	3 phases
Output switching mode	Random voltage switching

## Complementary

mounting support	Symmetrical DIN rail
[In] 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 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	4 V DC turn-on 1 V DC turn-off
input current	22...28 mA
solid state output type	Random 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

Disclaimer: 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

Response time	0.5 cycle (turn-off) 0.02 ms (turn-on)
power factor	0.5 (with maximum load)
Overvoltage category	III
Width	90 mm
test button	Without test button
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	UL 508 IEC 60950-1 CSA C22.2 No 14
product certifications	UL EAC CSA
marking	CSA EAC CE UL
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	803.0 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	4.362 kg

## Sustainability



**Green Premium™ 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<sub>2</sub> 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 >](#)

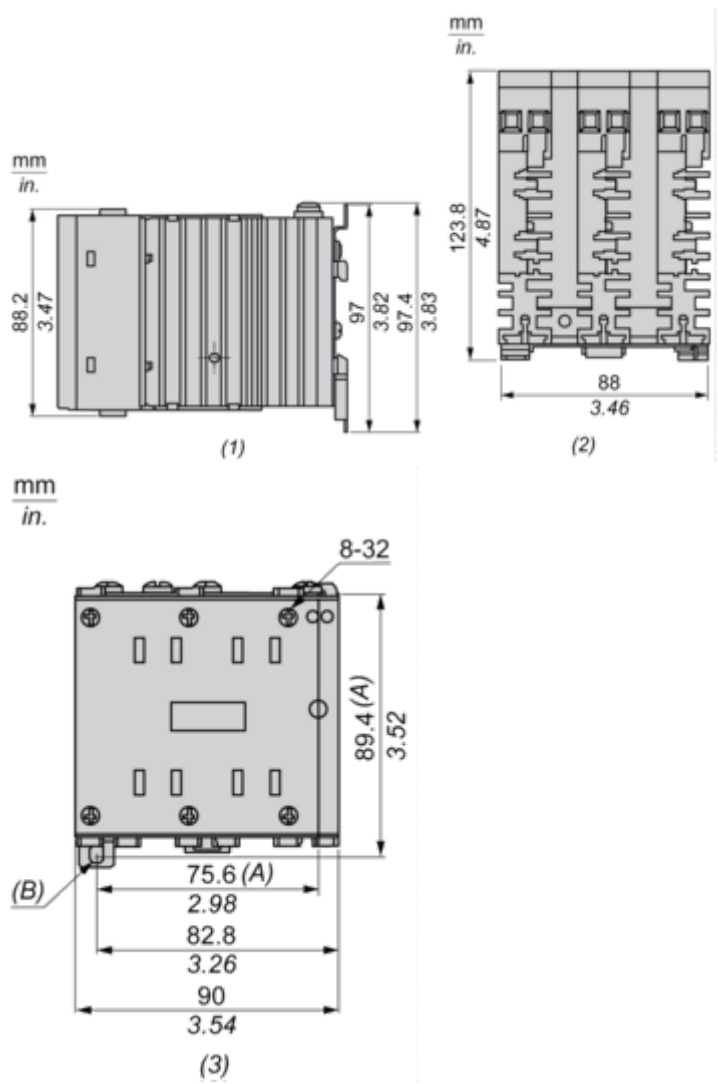
[Guide to assess a product's sustainability >](#)

## Well-being performance

 Mercury Free	
 Rohs Exemption Information	<a href="#">Yes</a>
Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>

Dimensions Drawings

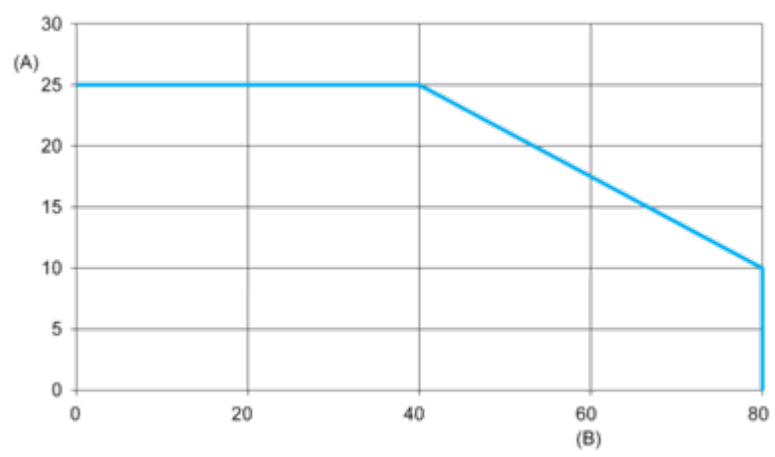
Dimensions



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

Performance Curves

Derating Curves



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