

Product datasheet

Specifications



Harmony. Solid state modular relay. 25 A. DIN rail mount. random switching. input 4...32 V DC. output 48...600 V AC

SSM3A325BDR

Price: 8,546.83 ZAR

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	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 mm ² , (AWG 24...AWG 16) for input Screw terminals: 1.3...5.3 mm ² , (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 I ² T For Fusing	410 A ² .s for 10 ms at 50 Hz 374 A ² .s for 8.3 ms at 60 Hz
Maximum Leakage Current	0.25 mA off-state

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Dv/Dt	500 V/ μ s off-state at maximum voltage
Response Time	0.5 cycle (turn-off) 0.02 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	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-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

Mercury Free

RoHS Exemption Information Yes

Certifications & Standards

Reach Regulation [REACH Declaration](#)

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

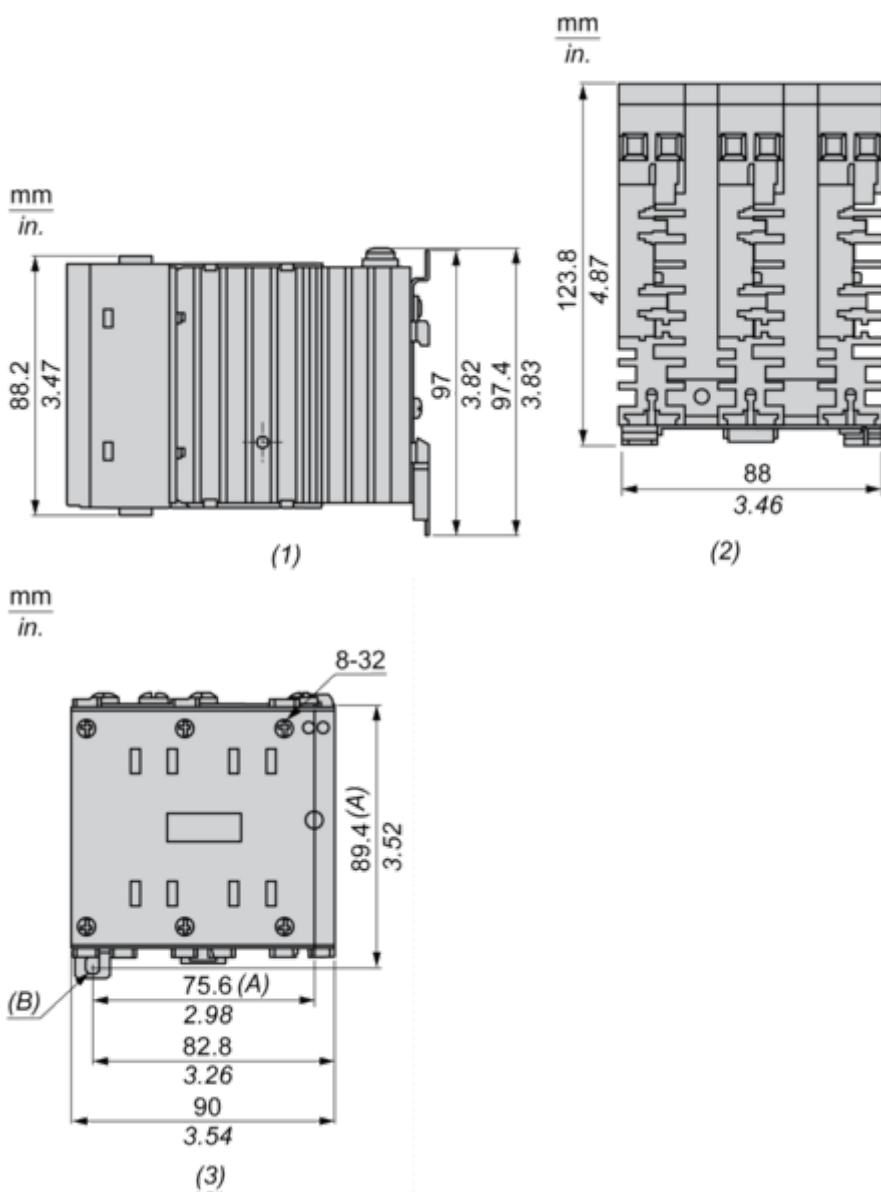
China RoHS Regulation [China RoHS declaration](#)

Environmental Disclosure [Product Environmental Profile](#)

Circularity Profile [End of Life Information](#)

Dimensions Drawings

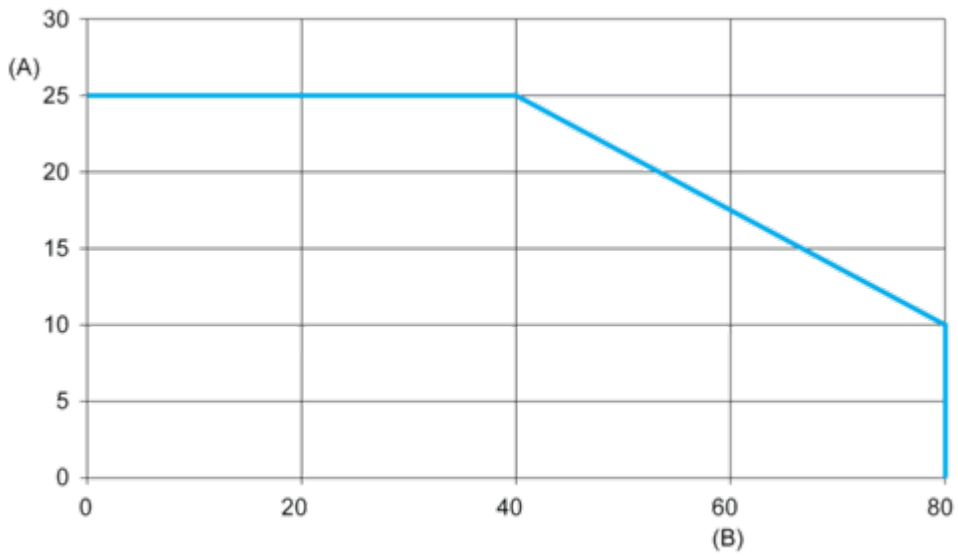
Dimensions



- (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)