

Product data sheet

Specifications



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

SSM3A325BDR

! To be discontinued

! To be discontinued on: Jan 25, 2027

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony Solid State Relays
Device short name	SSM3
Product or Component Type	Modular DIN rail relay
Number of channels	3
Number of phases	3 phase
Output switching mode	Random 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 mm², 24 AWG...16 AWG) input Screw terminals 1.3...5.3 mm², 16 AWG...10 AWG) 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 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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

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	0.5 cycle (turn-off) 0.02 ms (turn-on)
power factor	0.5 (with maximum load)
Overvoltage category	III
Width	3.5 in (90 mm)
test button	Without test button
Net Weight	1.63 lb(US) (0.74 kg)
Device presentation	Complete product

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	-4...176 °F (-20...80 °C)
Ambient Air Temperature for Storage	-40...212 °F (-40...100 °C)

Ordering and shipping details

Category	US10CP222375
Discount Schedule	0CP2
GTIN	3606485441726
Returnability	Yes
Country of origin	MX

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	5.5 in (14.0 cm)
Package 1 Width	4.3 in (11.0 cm)
Package 1 Length	4.3 in (11.0 cm)
Package weight(Lbs)	28.3 oz (803.0 g)
Unit Type of Package 2	S02

Number of Units in Package 2	5
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	9.617 lb(US) (4.362 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint	
Total lifecycle Carbon footprint	13 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	7 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.4 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	5 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	1 kg CO2 eq.

Use Better

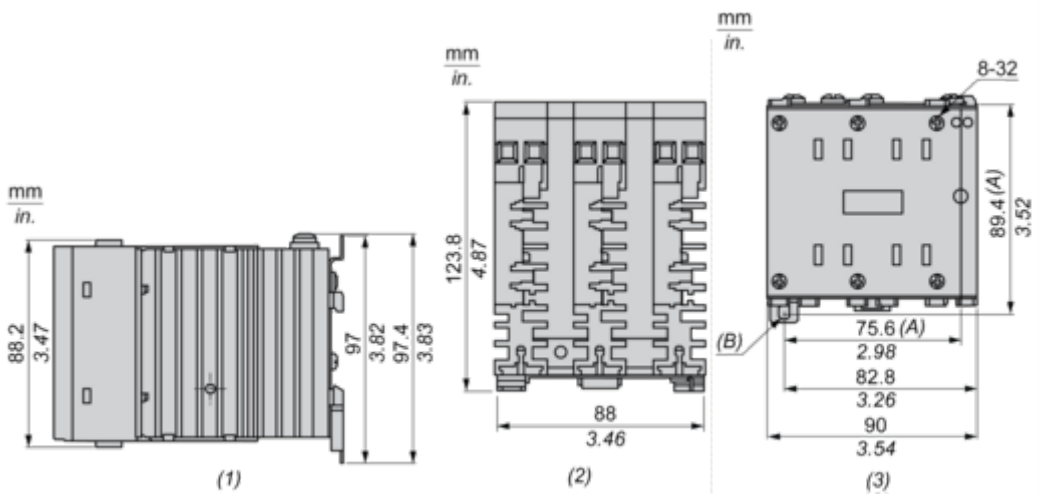
Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	134201bc-d293-4667-9cca-10a7f11729e0
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 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 www.P65Warnings.ca.gov

Use Again

Repack and remanufacture	
Recyclability potential, in %	96
Take-back	No

Dimensions Drawings

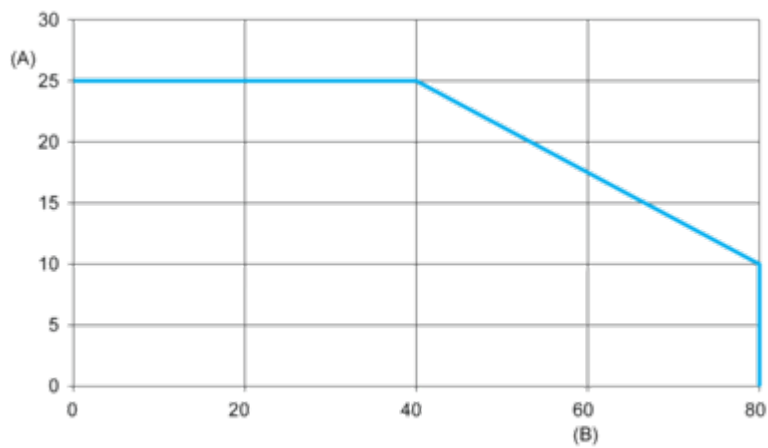
Dimensions



- (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)