

# Product data sheet

## Characteristics

# SSM3A325BD

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



Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 124.35 USD



### 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
Phase	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
Capacitance unbalance	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 limits	22...28 MA
Solid state output type	Zero voltage switching
Load current	0.1...25 A
Absolute maximum voltage	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)
Cos phi	0.5 (with maximum load)
Overvoltage category	III
Net Weight	1.63 Lb(US) (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	CSA C22.2 No 14 IEC 60950-1 UL 508
Product Certifications	CSA UL 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	00785901447733
Nbr. of units in pkg.	1
Package weight(Lbs)	28.32 Oz (803 g)
Returnability	Yes
Country of origin	MX

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	5.51 In (14 cm)
Package 1 width	4.33 In (11 cm)
Package 1 Length	4.33 In (11 cm)

## Offer Sustainability

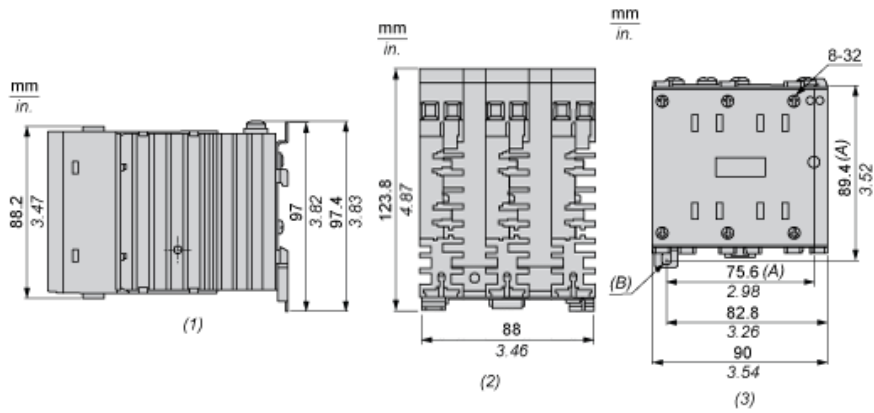
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>

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China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

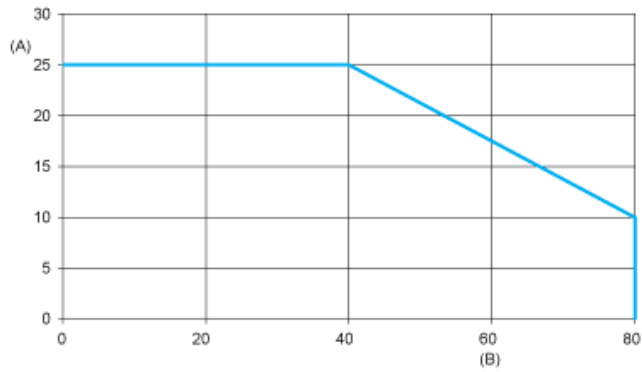
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## Dimensions



- (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)

Product Life Status : **Commercialised**