

## 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



### 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	Zero 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 <sup>2</sup> , (AWG 24...AWG 16) for input Screw terminals: 1.3...5.3 mm <sup>2</sup> , (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	Zero 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 <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
Product weight	0.74 kg

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## 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	-20...80 °C
Ambient air temperature for storage	-40...100 °C

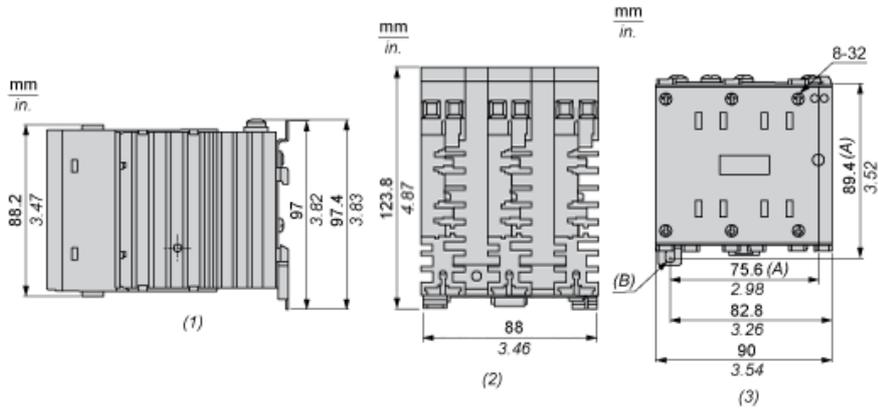
## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	803 g
Package 1 Height	14 cm
Package 1 width	11 cm
Package 1 Length	11 cm
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Weight	4.311 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

## Offer Sustainability

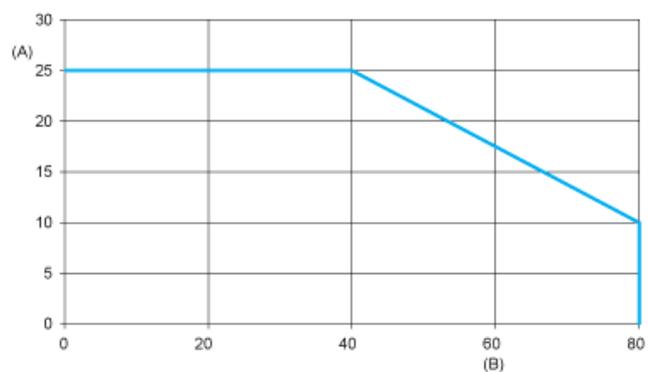
Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

## 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)