Product data sheet
Characteristics

SSM3A325BDR
solid state relay - DIN rail mount - input 4-32Vdc, output 48-600Vac, 25A, rdm

Main

Range of product	Harmony Relay
Product or component type	Solid state relay
Device short name	SSM3
Number of channels	3
Number of phases	3 phases

Complementary

Mounting support	Symmetrical DIN rail
Output voltage	48...600 V AC
[Uc] control circuit voltage	4...32 V DC
Contacts type and configuration	3 NO
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)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

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 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
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

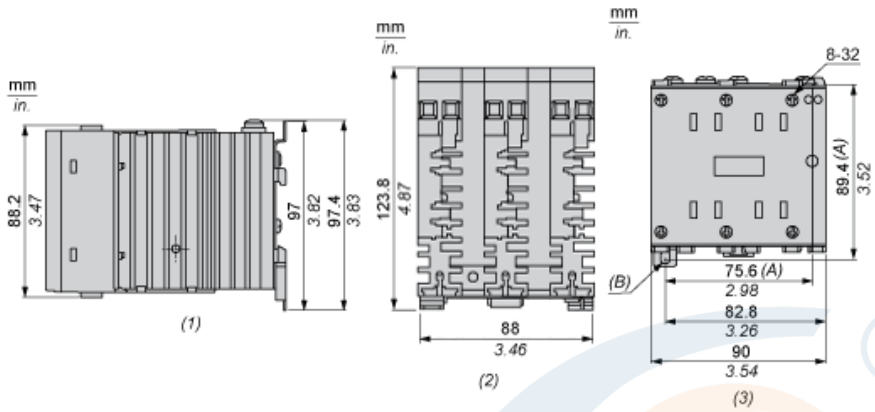
Package 1 Weight	0.803 kg
Package 1 Height	1.400 dm
Package 1 width	1.100 dm
Package 1 Length	1.100 dm

Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

SSM3A325BDR

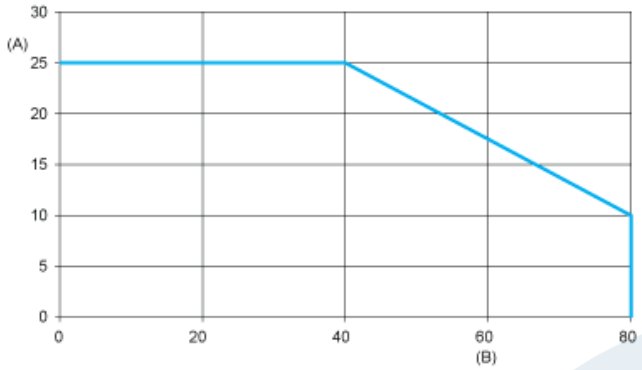
Dimensions



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

SSM3A325BDR

Derating Curves



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