

Product data sheet

Characteristics

SSM3A325P7

Solid state modular relay, Harmony, 25A, DIN rail mount, zero voltage switching, input 180...280V AC, output 48...600V 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	180...280 V AC
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	10 V turn-off 180 V turn-on
Input current	19...24 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 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
DV/dt	500 V/μs off-state at maximum voltage
Response time	30 ms (turn-off) 20 ms (turn-on)
Power factor	0.5 (with maximum load)
Oversupply category	III
Net 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	UL 508 IEC 60950-1 CSA C22.2 No 14
Product certifications	CSA[RETURN]UL[RETURN]EAC
Marking	CSA CE EAC UL
IP degree of protection	IP20
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-40...100 °C

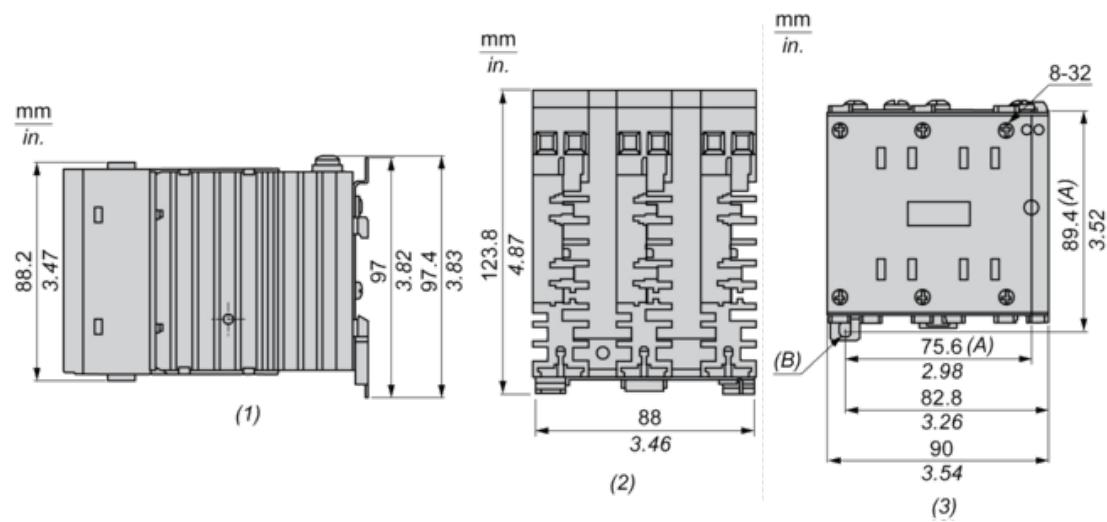
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14 cm
Package 1 Width	11 cm
Package 1 Length	11 cm
Package 1 Weight	795 g
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.393 kg

Offer Sustainability

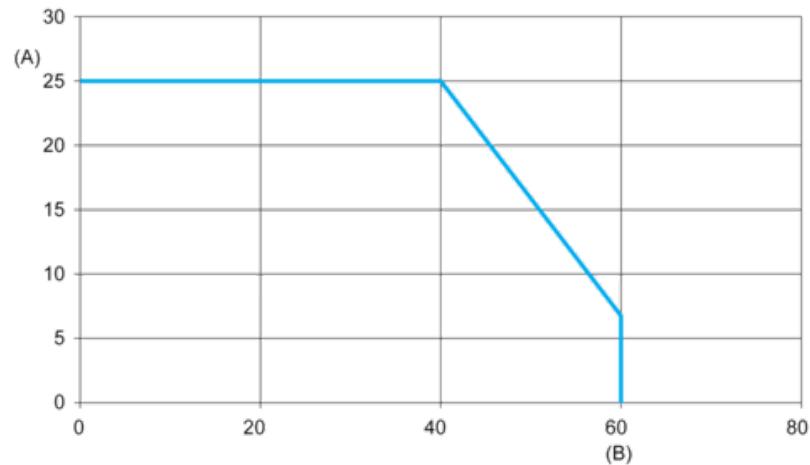
Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental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

Dimensions



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

Derating Curves



A : Output Current (Amps)

B : Ambient Temperature (°C)