

Product data sheet

Specifications



pre Assembled, Harmony Solid State Relays, 25A, DIN rail mount, zero voltage switching, input 180...280V AC, output 48...600V AC

SSM3A325P7

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 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 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 MΩ

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 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	30 ms (turn-off) 20 ms (turn-on)
power factor	0.5 (with maximum load)
Overvoltage category	III
Width	90 mm
test button	Without test button
Product 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	CSA UL 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



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 >](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	134201bc-d293-4667-9cca-10a7f11729e0
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

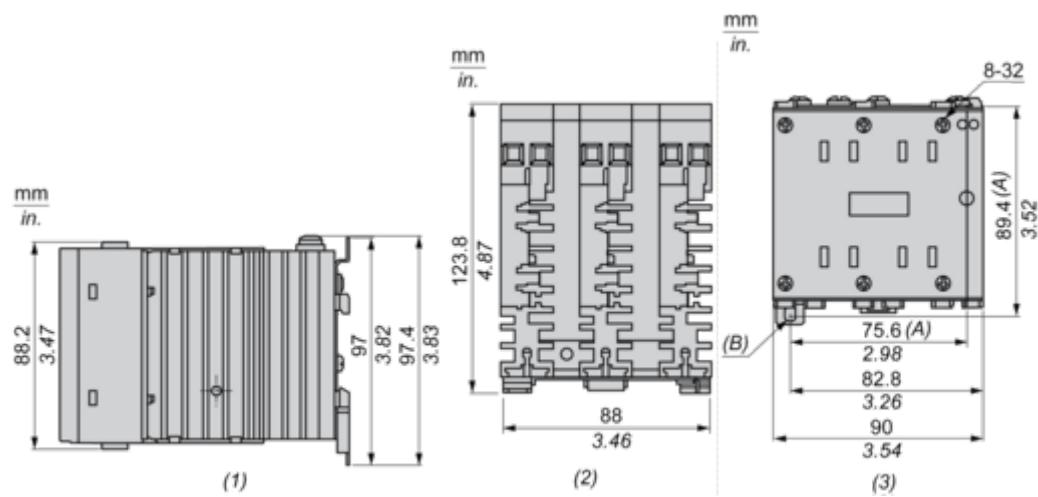
Use Again

Repack and remanufacture

Take-back	No
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Dimensions Drawings

Dimensions



(1) Side view

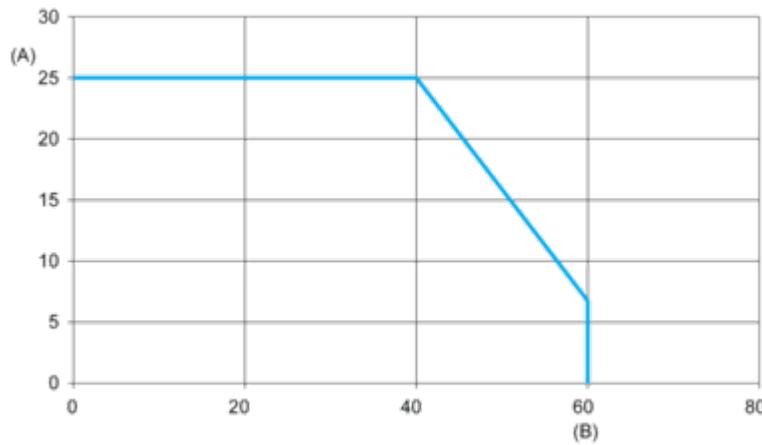
(2) Top view

(3) Front view

(A) Mounting hole

(B) Mounting hole / slot

Performance Curves

Derating Curves

A : Output Current (Amps)

B : Ambient Temperature (°C)

Technical Illustration

Dimensions

