

Product data sheet

Specifications



single phase relay, Harmony Solid State Modular Relays, 25A, DIN rail mount, zero voltage switching, input 90 to 140V AC, output 48 to 600V AC

SSM3A325F7

Product availability: Stock - Normally stocked in distribution facility

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 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 | 90...140 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) input Screw terminals 1.3...5.3 mm ² , AWG 16...AWG 10) output |
| maximum capacitance | 8 pF for input/output |
| Insulation resistance | 1000 MΩ |
| Local signalling | LED (green) for input status |
| Switching voltage | 90 V turn-on 10 V turn-off |
| input current | 15...19 mA |
| Solid state output type | Zero voltage switching |
| Load current | 0.1...25 A |
| transient overvoltage | 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 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 |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

| | |
|-------------------------|---------------------------------------|
| 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 | 3.5 in (90 mm) |
| test button | Without test button |
| Product 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 | IEC 60950-1 UL 508 CSA C22.2 No 14 |
| Product Certifications | UL EAC CSA |
| Marking | CSA UL CE EAC |
| 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 | US10CP222375 |
| Discount Schedule | 0CP2 |
| GTIN | 3606485441696 |
| Returnability | Yes |
| Country of origin | MX |

Packing Units

| | |
|------------------------------|--------------------|
| Unit Type of Package 1 | PCE |
| Nbr. of units in pkg. | 1 |
| Package 1 Height | 5.51 in (14.0 cm) |
| Package 1 Width | 4.33 in (11.0 cm) |
| Package 1 Length | 4.33 in (11.0 cm) |
| Package weight(Lbs) | 28.6 oz (812.0 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 5 |
| Package 2 Height | 5.91 in (15.0 cm) |
| Package 2 Width | 11.81 in (30.0 cm) |

| | |
|-------------------------|-----------------------|
| Package 2 Length | 15.75 in (40.0 cm) |
| Package 2 Weight | 9.85 lb(US) (4.47 kg) |



Environmental Data

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 |

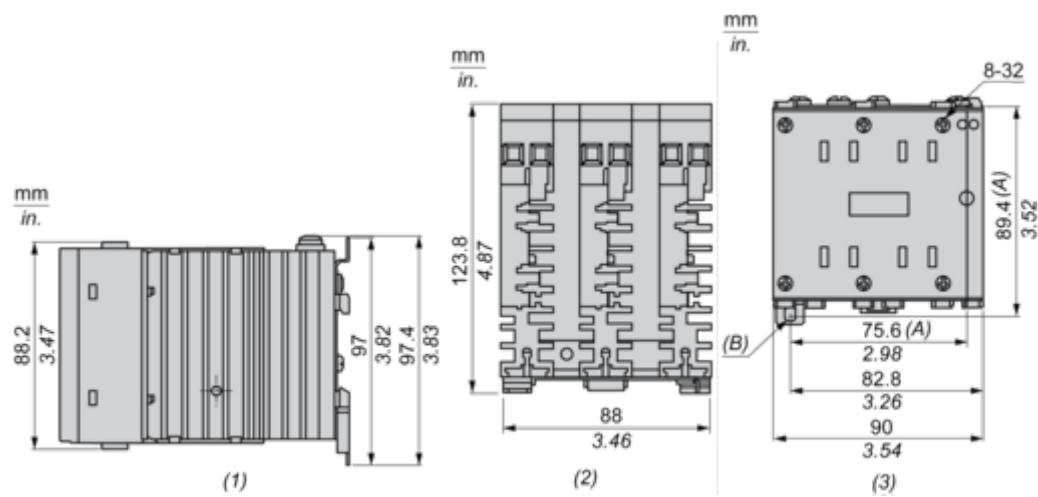
Use Again

Repack and remanufacture

| | |
|-----------|----|
| Take-back | No |
|-----------|----|

Dimensions Drawings

Dimensions



(1) Side view

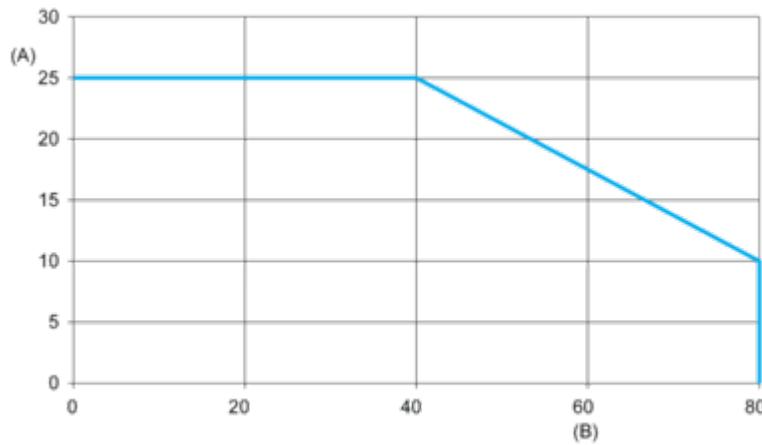
(2) Top view

(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

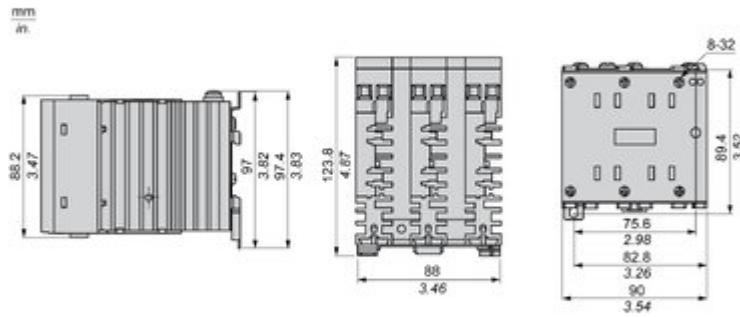


Image of product / Alternate images

Alternative

