

SSM1A112B7

solid state relay - DIN rail mount - input 18-36 V AC,
output 24-280 V AC ,12A



Main

| | |
|---------------------------|-------------------|
| Range of product | Zelio Relay |
| Product or component type | Solid state relay |
| Device short name | SSM |
| Number of channels | 1 |
| Network number of phases | 1 phase |

Complementary

| | |
|-------------------------------------|---|
| Mounting support | Symmetrical DIN rail |
| [In] rated current | 12 A |
| Output voltage | 24...280 V AC |
| [Uc] control circuit voltage | 18...36 V AC |
| Contacts type and composition | 1 NO |
| Tightening torque | Input : 0.5...0.8 N.m Output : 0.5...0.8 N.m |
| Connections - terminals | Screw terminals : 1 x 0.3...1 x 1.5 mm ² , (AWG 22...AWG 16) for input Screw terminals : 1 x 0.3...1 x 2.5 mm ² , (AWG 22...AWG 14) for output |
| Capacitance unbalance | <= 10 pF for input/output |
| Insulation resistance | 1000 MOhm at 500 V DC |
| Local signalling | LED green for input status |
| Minimum switching voltage | 18 V AC turn-on |
| Maximum switching voltage | 4 V AC turn-off |
| Input current limits | 3.5...8.5 mA |
| Solid state output type | Zero voltage switching SCR output |
| Load current | 0.00015...12 A |
| Absolute maximum voltage | 600 V |
| Surge current | <= 715 A for 16.6 ms <= 750 A for 20 ms |
| Voltage drop | <= 1.3 V on-state |
| Motor power hp | 0.33 hp at 40 °C 240 V AC |
| Maximum I ² t for fusing | 2560 A ² .s for 10 ms at 50 Hz half cycle 2330 A ² .s for 8.33 ms at 60 Hz half cycle |
| Leakage current | <= 0.1 mA off-state |
| DV/dt | 500 V/μs off-state at maximum voltage |
| Response time | 0.5 cycle turn-on 30 ms turn-off |
| Cos phi | >= 0.5 with maximum load |
| Overvoltage category | III |
| Width | 18 mm |
| Height | 90.3 mm |
| Depth | 83.7 mm |
| Product weight | 0.09 kg |

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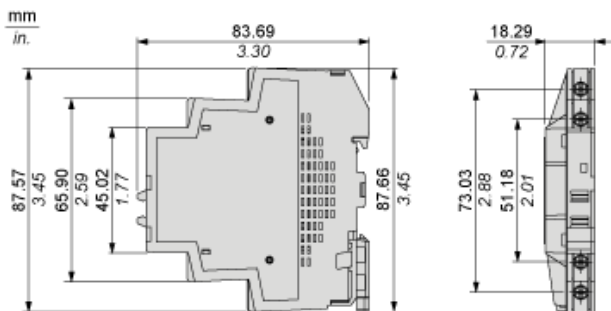
Environment

| | |
|---------------------------------------|---|
| flame retardance | V0 conforming to UL 94 |
| dielectric strength | 4 kV AC for input/output 4 kV AC for input or output to case |
| pollution degree | 2 |
| standards | IEC 61000 IEC 60950-1 IEC 62314 |
| product certifications | CSA UL REACH |
| marking | CE |
| IP degree of protection | IP20 |
| ambient air temperature for operation | -30...80 °C |
| ambient air temperature for storage | -30...100 °C |

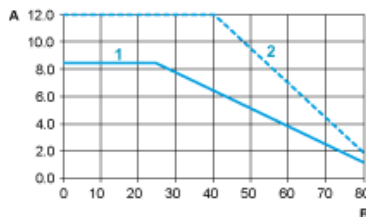
Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1328 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

Dimensions



Derating Curves



A : Load Current (Amperes)

B : Ambient Temperature (°C)

1 : Multiple units, no minimum spacing between components

2 : Installed single unit, distance to adjacent components more than 18 mm