



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 |

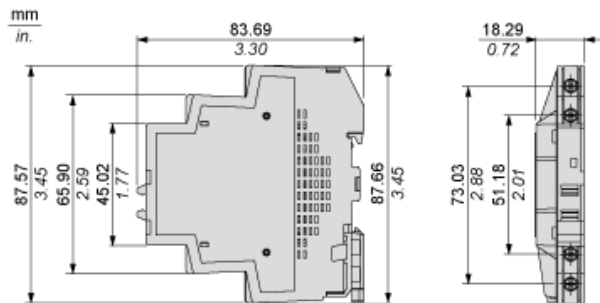
Complementary

| | |
|-------------------------------------|---|
| Mounting support | Symmetrical DIN rail |
| [In] rated current | 12 A |
| Output voltage | 48...600 V AC |
| Control circuit voltage | 90...140 V AC |
| Contacts type and composition | 1 NO |
| Tightening torque | 0.5...0.8 N.m for output 0.5...0.8 N.m for input |
| Connections - terminals | Screw terminals 1 x 0.3...1 x 2.5 mm ² for output - AWG 22...AWG 14 Screw terminals 1 x 0.3...1 x 1.5 mm ² for input - AWG 22...AWG 16 |
| Capacitance unbalance | <= 10 pF for input/output |
| Insulation resistance | 1000 MOhm at 500 V DC |
| Local signalling | LED green for input status |
| Switching voltage | <= 10 V AC turn-off >= 90 V AC turn-on |
| Input current limits | 3...5 mA |
| Solid state output type | Zero voltage switching SCR output |
| Load current | 0.00015...12 A |
| Absolute maximum voltage | 1200 V |
| Surge current | <= 750 A for 20 ms <= 715 A for 16.6 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 | 2330 A ² .s for 8.33 ms at 60 Hz half cycle 2560 A ² .s for 10 ms at 50 Hz half cycle |
| Leakage current | <= 0.2 mA off-state |
| DV/Dt | 500 V/μs off-state at maximum voltage |
| Response time | 30 ms turn-off 0.5 cycle turn-on |
| 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 |

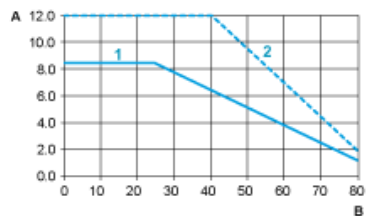
Environment

| | |
|---------------------------------------|---|
| Flame retardance | V0 conforming to UL 94 |
| Dielectric strength | 4 kV AC for input or output to case 4 kV AC for input/output |
| Pollution degree | 2 |
| Standards | IEC 61000 IEC 60950-1 IEC 62314 |
| Product certifications | CSA RoHS 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 |

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