



Main

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|---------------------------------|--------------------------------------|
| Range of product | Zelio Relay |
| Product or component type | Solid state relay |
| Provided accessory | Thermal pad |
| Device short name | SSP1 |
| Number of phases | 1 phase |
| Contacts type and configuration | 1 NO |
| [In] rated current | 75 A |
| Solid state output type | Zero voltage switching SCR output |

Complementary

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| Control circuit voltage | 90...280 V AC |
| Switching voltage | >= 90 V AC turn-on <= 10 V AC turn-off |
| Response time | 25 ms turn-on 30 ms turn-off |
| Input current | 5...10 mA |
| Output voltage | 48...660 V |
| Load current | 0.15...75 A |
| Transient overvoltage | 1200 V |
| Surge current | <= 1000 A for 16.6 ms |
| Maximum I ² t for fusing | 4555 A ² .s for 10 ms at 50 Hz half cycle 4150 A ² .s for 8.33 ms at 60 Hz half cycle |
| Co-ordination type | Type 2 - 40 A miniature circuit breaker (MCB) - curve B Type 1 - 50 A miniature circuit breaker (MCB) - curve B |
| Leakage current | <= 1 mA off-state |
| Voltage drop | 1.15 V on-state |
| DV/Dt | 500 V/μs off-state at maximum voltage |
| Power factor | 0.5 with maximum load |
| Motor controller rating | 7.5 hp 480 V AC 3 hp 240 V AC 1.5 hp 120 V AC |
| Insulation resistance | 1000 MOhm at 500 V DC |
| Maximum capacitance | 8 pF for input/output |
| Dielectric strength | 4 kV AC for input or output to case 4 kV AC for input/output |
| [Uimp] rated impulse withstand voltage | 6 kV input to output 6 kV output to case |
| Tightening torque | 2...2.2 N.m for output 1.5...1.7 N.m for input |
| Connections - terminals | Ring lugs : 11.7 x 4.5 mm for output Forked type tag connectors : 11.7 x 4.5 mm for output Ring lugs : 9.2 x 4 mm for input Forked type tag connectors : 9.2 x 4 mm for input Screw terminals : 0.5...8.26 mm ² , (AWG 20...AWG 8) without cable end for output Screw terminals : 0.2...3.3 mm ² , (AWG 24...AWG 12) without cable end for input Screw terminals : 0.5...5.26 mm ² , (AWG 20...AWG 10) with cable end for output Screw terminals : 0.2...3.3 mm ² , (AWG 24...AWG 12) with cable end for input |
| Thermal resistance | 0.3 °C/W junction to case |
| Thermal pad impedance | 0.48 °C-in ² /W at 25 psi |
| LED indicator | LED green for input status |

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| IP degree of protection | IP20 |
| Product weight | 89.2 g |

Environment

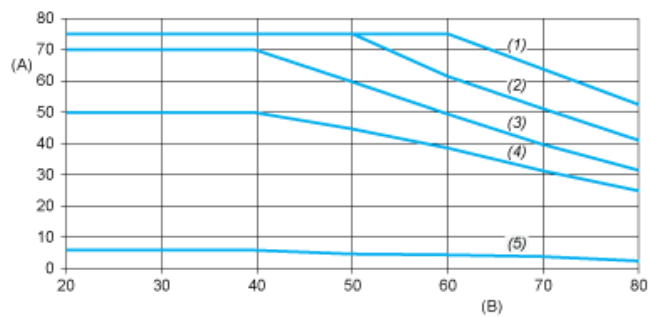
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|---------------------------------------|--|
| Ambient air temperature for operation | -40...80 °C |
| Ambient air temperature for storage | -40...125 °C |
| Pollution degree | 2 |
| Overvoltage category | III |
| Product certifications | CE CSA RoHS UL REACH EAC |
| Marking | CE CSA UL EAC |
| Standards | EN/IEC 60950-1 UL 508 EN/IEC 62314 CSA C22.2 No 14-13 |

Dimensions



- (1) Front view
- (2) Side view
- (3) Bottom view

Derating Curves



- A : Load Current (Arms)
B : Ambient Temperature (°C)
(1) For Heatsink SSRHP02
(2) For Heatsink SSRHP05
(3) For Heatsink SSRHP07
(4) For Heatsink SSRHD10
(5) No Heatsink