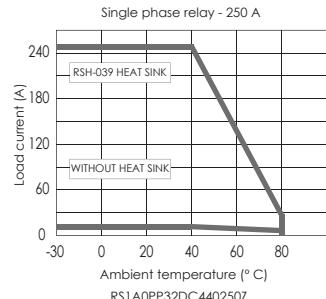
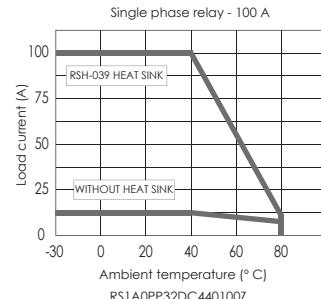


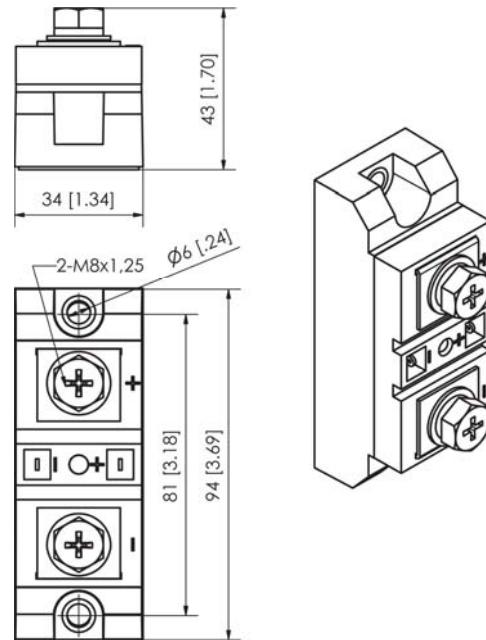
Single phase power relay SSR



Load current vs. ambient temperature



Dimensions (mm. inch)



- » AC Solid state relay, zero crossing.
- » Input range: 3 - 32 VDC.
- » Maximum load current (AC1 at 25° C): 100, 150, 250 A.
- » Operational ratings: 40 - 400 VAC.
- » Frequency range: 50 - 60 Hz.
- » Maximum non-repetitive peak voltage: 930 Vp.
- » LED indicator.

References

| Control voltage | Operational voltage | Operational current | Reference | Reference heat sinks |
|-----------------|---------------------|---------------------|--------------------|----------------------|
| 3 - 32 VDC | 40 - 440 VAC | 100 A | RS1AOPP32DC440100Z | RSH-039 |
| | | 150 A | RS1AOPP32DC440150Z | RSH-039 |
| | | 250 A | RS1AOPP32DC440250Z | RSH-039 |

Over 10 A load a heat sink must be used. The use of a heat sink will make the lifetime of the relay up to four times longer, even when using it with load currents lower than 10 A.

General specifications

| | |
|--|-----------------------|
| Dielectric insulation (between input & output) | 2.500 VAC |
| Operating temperature | -30 °C to 80 °C |
| Storage temperature | -45°C to 85 °C |
| Ambient humidity | Operating: up to 85 % |
| CE marking | Yes |

Input specifications

| | |
|------------------------------------|-----------------------|
| Control voltage range | 3 - 32 VDC |
| Input current (max) | 6/35 mA @= 3 V / 32 V |
| Pick-up voltage | 3 VDC |
| Drop-out voltage | 1 VDC |
| Maximum reverse voltage | 32 VDC |
| Max. response time pick-up (50Hz) | 10 ms |
| Max. response time drop-out (50Hz) | 10 ms |

Output specifications

| | |
|--|---|
| Maximum load current (AC51 @ Ta = 25° C) (AC53a @ Ta = 25° C) | 100, 150, 250 A 5, 15, 18, 20 A |
| Load voltage range | 40 - 440 VAC |
| Frequency range | 50 - 60 Hz |
| Max. non-repetitive peak voltage | 930 Vp |
| Max. non-repetitive peak current (t=10ms) | 1.100 Ap/100 A 1450 Ap/150 A 2.200 Ap/250 A |
| Maximum off state leakage current | 10 m Arms |
| Minimum off state dv / dt | 500 V / useg |
| Maximum on state voltage | 1,6 VAC |
| Minimum load current | 0,05 Arms |
| I ² t (10 ms) (orientative data) | 6.050 A ² s (100A) 10.500 A ² s (150A) 24.200 A ² s (250A) |

Housing specifications

| | |
|--------------------------------|-------------------------|
| Dimensions (L x W x H mm) | 94 x 34 x 43 |
| Weight | 235 gr |
| Baseplate | Aluminum, nickel-plated |
| Control terminal (M3x6) torque | 1,0 Nm |
| Power terminal (M5x9) torque | 2,4 Nm |

Diagram

