



SOUTHEAST THERMAL SYSTEMS

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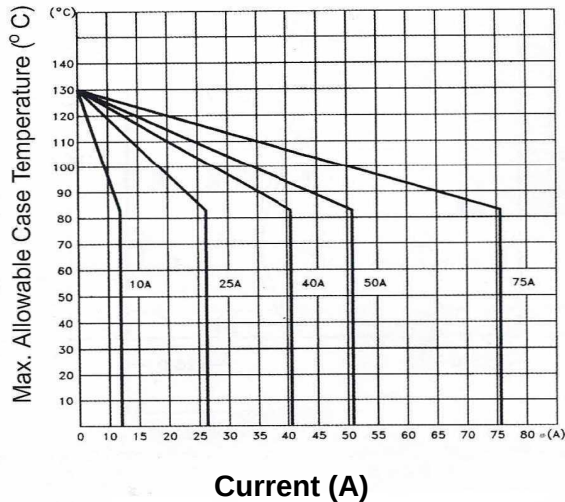
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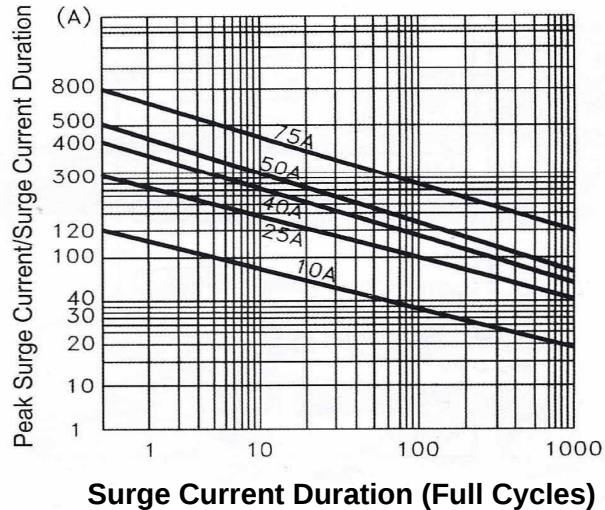
SSR Relay Specifications

ISSR Maximum Case Temperature and Peak Surge Current / Surge Current Duration

Maximum Allowable Case Temperature



Peak Surge Current / Surge Current Duration

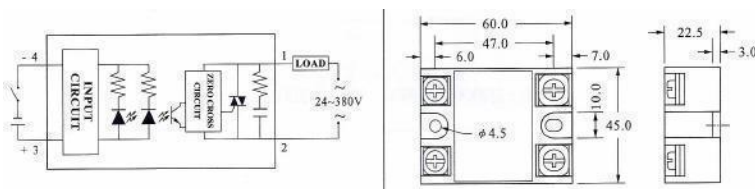


When to use Heat Sinks and Cooling Fans for SSR's

Line Current (Average Current)	Heat Sink Standard	Heat Sink IHS-50 (95 mm H)	Cooling Fan
LC < 5 Amps	Non-Required	Non-Required	Non-Required
LC < 12 Amps	IHS-50H	Non-Required	Non-Required
LC < 16 Amps	IHS-ESR-60	Non-Required	Non-Required
LC < 25 Amps	IHS-ESR-60	IHS-50	Non-Required
LC > 25 Amps	IHS-ESR-60	IHS-50	Required

1. To protect the solid state relay from a short-circuit of the load, use I^2t value specified.
2. The rated current corresponds to resistive loads, if the solid state relays are applied to other loads, then follow these recommendations:
 - Electric Discharge Lamps: use high voltage SSR's (H) on 240 VAC applications.
 - Incandescent Lamps: use SSR's rated for 4 x the incandescent lamp current
 - Three Phase Motors: The rated current of the SSR must be rated for 4 x the three phase motor average
 - Transformer Loads: The rated current of the SSR must rated for more than 10 x the transformer current
 - Capacitor Loads: The rated current of the SSR must be more than 3 x the capacitor current

ISSR 1-Phase Solid State Relay Wiring Diagram



ITSR 3-Phase Solid State Relay Wiring Diagram

