

• 120 & 240 Vac Models

Models SST120 and SST240 auxiliary function modules gradually apply power to the load when energized by the control voltage. They must be used with Crydom Series 1 (-10) random turn-on solid state relays. Consult fac-

tory about use with 480 Vac loads. For a complete set (control module and solid state relay) order 10SST120, 25SST120, etc.

Manufactured in Crydom's ISO 9002 Certified facility for optimum product performance and reliability.

| MODEL NUMBERS | 120 Vac | 10SST120 | 25SST120 | 40SST120 | | |
|---|---|-----------|-----------|-----------|-----------|----------|
| | 240 Vac | 10SST240 | 25SST240 | 50SST240 | 75SST240 | 90SST240 |
| RELAY OUTPUT SPECIFICATIONS ① | | | | | | |
| Operating Voltage Range (47-63 Hz) [Vrms] | 90-140 (120 Vac Models) 180-280 (240 Vac Models) | | | | | |
| Load Current Range ③ [Arms] | .04-10 | .04-25 | .04-50 | .04-75 | .04-90 | |
| Transient Overvoltage [Vpk] | 400 (120 Vac models) 600 (240 Vac models) | | | | | |
| Max. Surge Current, (16.6ms) [A _{pk}] | 120 | 250 | 625 | 1000 | 1200 | |
| Max. On-State Voltage Drop @ Rated Current [Vpk] | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | |
| Thermal Resistance Junction to Case (R _{θJC}) [iC/W] | 1.48 | 1.02 | .63 | .31 | .28 | |
| Maximum I ² t for Fusing, (8.3 msec.) [A ² sec] | 60 | 260 | 1620 | 4150 | 6000 | |
| Max. Off-State Leakage Current @ Rated Voltage [mArms] | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | |
| Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec]② | 500 | 500 | 500 | 500 | 500 | |
| Max. Turn-Off Time | 1/2 cycle | 1/2 cycle | 1/2 cycle | 1/2 cycle | 1/2 cycle | |
| Power Factor (Min.) with Max. Load | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |

CONTROL MODULE INPUT SPECIFICATIONS (Terminal 3B) ①

| | DC CONTROL |
|-----------------------------------|--------------|
| Control Voltage Range | 3.5-10Vdc |
| Max. Turn-On Voltage | 3.5 Vdc |
| Min. Turn-Off Voltage | 1.0 Vdc |
| Typical Input Current | 1.6mA @ 5Vdc |
| Nominal Turn-On Delay Time @ 60Hz | 150 msec |
| Nominal Swell (Ramp) Time @ 60Hz | 180 msec |
| Max. Reset Time | 100 μsec |

CONTROL MODULE OUTPUT SPECIFICATIONS (Terminal 4B-Input to relay)①

| | DC CONTROL |
|----------------------------------|------------|
| Max. Off-State Operating Voltage | 36 Vdc |
| Max. Load Current (Sink) | 3.0 mAdc |
| Max. On-State Voltage @ 3mA | 0.5 Vdc |
| Max. Off-State Leakage @ 10Vdc | 1.0 μAdc |

GENERAL NOTES

- ① All parameters at 25°C unless otherwise specified.
- ② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- ③ Heat sinking required (Relay Only), see Series 1 data sheet.

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For recommended applications and more information contact:

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GENERAL SPECIFICATIONS

| | |
|-------------------------------------|--------------|
| Dielectric Strength, Signal to Load | 4000 Vrms |
| Dielectric Strength, Signal to Base | 4000 Vrms |
| Ambient Operating Temperature Range | -30 to 80°C |
| Ambient Storage Temperature Range | -40 to 125°C |

MECHANICAL SPECIFICATIONS

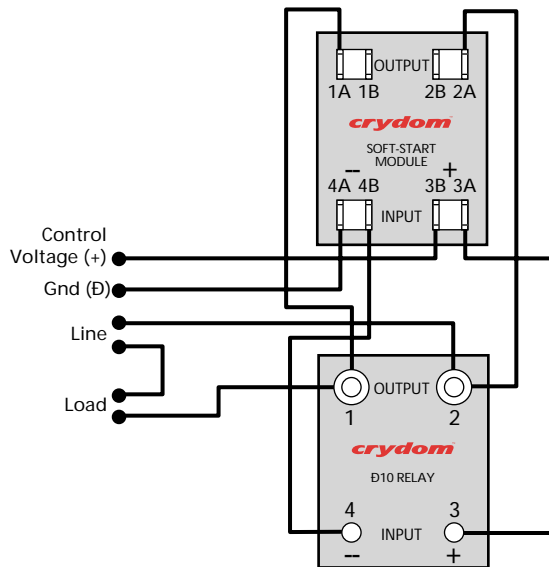
| | |
|-------------------|----------------------------|
| Weight: (typical) | 3.0 oz. (43g) |
| Encapsulation: | Thermally Conductive Epoxy |

AVAILABLE OPTIONS

- SST120** Control Module Only (120 Vac line)
- SST240** Control Module Only (240 Vac line)

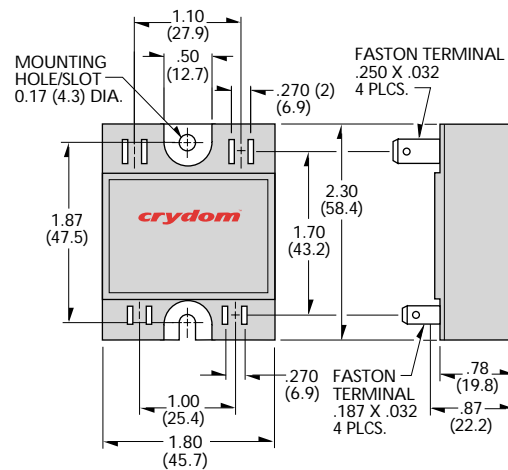
DERATING CURVES ⓓ See Series 1

WIRING DIAGRAM



Notes

1. Following pins may be interchanged: 1A & 1B, 2A & 2B, 3A & 3B.
2. Pin 4A & 4B may not be interchanged.
3. The line and load may be interchanged.



All dimensions are in inches (millimeters)

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APPROVALS

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