

Series CT

10-25Amp, TRIAC OUTPUT, 24-280 VAC

- 600V Blocking Capability
- Opto-Isolated 4000Vrms
- Zero Voltage Switching
- Internal Snubber

The Series CT offers a Triac AC switch output with internal snubber network. All models feature zero-voltage switching and a broadened operating range (24-280Vac) permitting optimum performance at both 120Vac and 240Vac line voltage.

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

| MODEL NUMBERS | CTD2410 | CTD2425 | CTA2410 | CTA2425 |
|---|-----------|-----------|---------|---------|
| OUTPUT SPECIFICATIONS ① | | | | |
| Operating Voltage (47-63 Hz) [Vrms] | 24-280 | 24-280 | 24-280 | 24-280 |
| Max. Load Current Range ④ [Arms] | 0.25-10 | 0.25-25 | 0.25-10 | 0.25-25 |
| Transient Overvoltage [Vpk] | 600 | 600 | 600 | 600 |
| Max. Surge Current, (16.6ms) [Apk] | 100 | 250 | 100 | 250 |
| Max. On-State Voltage Drop @ Rated Current [Vpk] | 1.6 | 1.6 | 1.6 | 1.6 |
| Thermal Resistance Junction to Case (R _{θJC}) [°C/W] | 3.0 | 1.1 | 3.0 | 1.1 |
| Maximum I ² t for Fusing, (8.3 msec.) [A ² sec] | 42 | 260 | 42 | 260 |
| Max. Off-State Leakage Current @ Rated Voltage [mA] | 10 | 10 | 10 | 10 |
| Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ② | 200 | 200 | 200 | 200 |
| Max. Turn-On Time | 1/2 Cycle | 1/2 Cycle | 10 msec | 10 msec |
| Max. Turn-Off Time | 1/2 Cycle | 1/2 Cycle | 40 msec | 40 msec |
| Power Factor (Min.) with Max. Load | 0.5 | 0.5 | 0.5 | 0.5 |

INPUT SPECIFICATIONS ①

| | DC CONTROL (CTD PREFIX) | AC CONTROL (CTA PREFIX) |
|--------------------------|----------------------------|----------------------------|
| Control Voltage Range | 3-32 Vdc | 90-140 Vrms |
| Max. Turn-On Voltage | 3.0 Vdc | 90 Vrms |
| Nominal Turn-Off Voltage | 1.0 Vdc | 10 Vrms |
| Nominal Input Impedence | See Note 5 | 14.1 kOhm |
| Typical Input Current | 7 mA @ 5Vdc ⑤ | 8 mA @ 120Vrms |

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 Dielectric strength and insulation resistance are measured between input and output.
- ④ Heat sinking required, for derating curves see page 2.
- ⑤ Input circuitry incorporates active current limiter.

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For recommended applications and additional information call:

1-800-8 CRYDOM

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Series CT

10-25Amp, TRIAC OUTPUT, 24-280 VAC



GENERAL SPECIFICATIONS

| | |
|--|---------------------|
| Dielectric Strength 50/60Hz | 4000 Vrms |
| Insulation Resistance (Min.) @ 500 Vdc | 10 ⁹ Ohm |
| Max. Capacitance Input/Output | 16 pF |
| Ambient Operating Temperature Range | -40 to 80°C |
| Ambient Storage Temperature Range | -40 to 125°C |

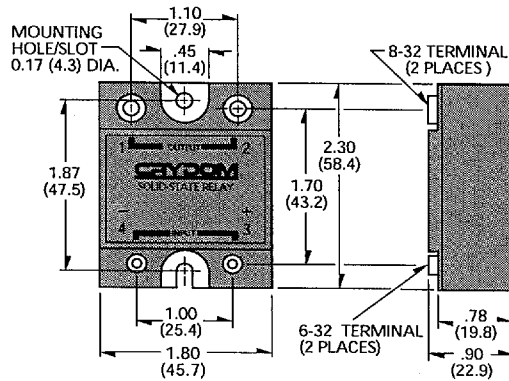
MECHANICAL SPECIFICATIONS

| | |
|-------------------|---|
| Weight: (typical) | 3.0 oz. (86.5g) |
| Encapsulation: | Thermally Conductive Epoxy |
| Terminals: | Screws and Saddle Clamps Furnished, Unmounted |

APPROVALS

VDE 10143 UG
 UL PENDING
 CSA PENDING

Crydom Heat Sinks offer excellent thermal management and are perfectly matched to the load current ratings of Crydom panel mount relays. Request Crydom's Heat Sink specification sheet for all the details.



All dimensions are in inches (millimeters)

Screw Torque Requirements: 6-32 Screws - 10 in./lbs., 8-32 and 10-32 Screws - 20in./lbs. (Screws dry without grease.)

CURRENT DERATING CURVES

