



# 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
<b>OUTPUT SPECIFICATIONS ①</b>				
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) [A <sub>pk</sub> ]	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 <sub>θJC</sub> ) [C/W]	3.0	1.1	3.0	1.1
Maximum I <sup>2</sup> t for Fusing, (8.3 msec.) [A <sup>2</sup> 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.

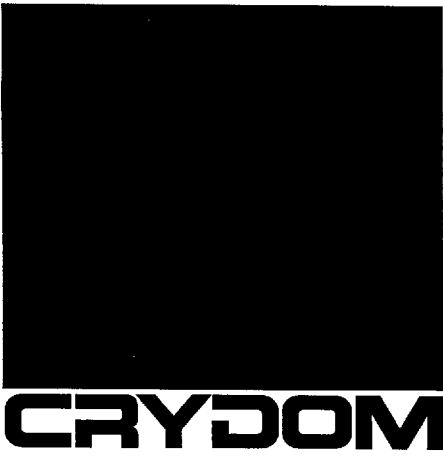
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For recommended applications and additional information call:

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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 <sup>9</sup> Ohm
Max. Capacitance Input/Output	16 pF
Ambient Operating Temperature Range	-40 to 80°C
Ambient Storage Temperature Range	-40 to 125°C

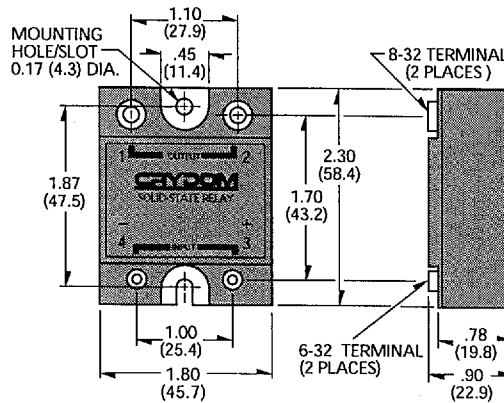
## MECHANICAL SPECIFICATIONS

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

