

- Zero Voltage Switching
- Panel Mount
- 600V Transient Capability
- Internal Snubber
- DC or AC Control
- Triac Output

Featuring state-of-the-art Surface Mount Technology, these SPST-NO relays deliver proven reliability in the most demanding applications.

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

MODEL NUMBERS	AC CONTROL	TA1210	TA1225	TA2410	TA2425
	DC CONTROL	TD1210	TD1225	TD2410	TD2425
OUTPUT SPECIFICATIONS ①					
Operating Voltage (47-63 Hz) [Vrms]		24-140	24-140	24-280	24-280
Max. Load Current ③ [Arms]		10	25	10	25
Min. Load Current, [mArms]		40	40	40	40
Transient Overvoltage [Vpk]		400	400	600	600
Max. Surge Current, (16.6ms) [Apk]		120	250	120	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]		1.48	1.02	1.48	1.02
Maximum I ² t for Fusing, (8.3 msec.) [A ² sec]		60	260	60	260
Max. Off-State Leakage Current @ Rated Voltage [mArms]		8	8	10	10
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ②		200	200	200	200
Max. Turn-On Time		1/2 Cycle (DC Control), 10.0 msec (AC Control)			
Max. Turn-Off Time		1/2 Cycle (DC Control), 40.0 msec (AC Control)			
Power Factor (Min.) with Max. Load		0.5	0.5	0.5	0.5

INPUT SPECIFICATIONS ①

	DC CONTROL	AC CONTROL
Control Voltage Range	3-32 Vdc	90-280 Vrms (60Hz)
Max. Reverse Voltage	-32 Vdc	—
Max. Turn-On Voltage	3.0 Vdc	90 Vrms
Min. Turn-Off Voltage	1.0 Vdc	10 Vrms
Nominal Input Impedance	1500 Ohms	60K Ohms
Typical Input Current	3.4mA @ 5 Vdc, 20mA @ 28Vdc	2mA @ 120 Vrms, 4mA @ 240 Vrms

GENERAL NOTES

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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, for derating curves see page 3.

GENERAL SPECIFICATIONS

Dielectric Strength 50/60Hz Input/Output/Base 4000 Vrms

Insulation Resistance (Min.) @ 500 Vdc 10⁹ Ohm

Max. Capacitance Input/Output 8 pF

Ambient Operating Temperature Range -40 to 80°C

Ambient Storage Temperature Range -40 to 125°C

MECHANICAL SPECIFICATIONS

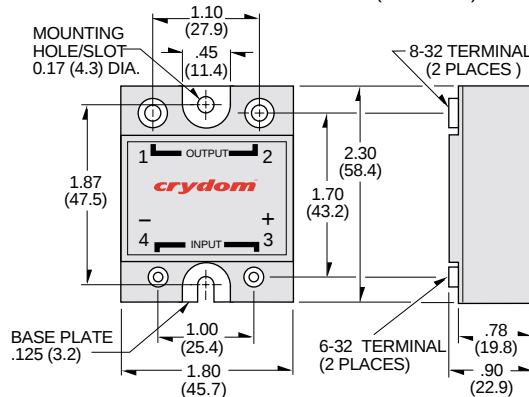
Weight: (typical) 3.0 oz. (86.5g)

Encapsulation: Thermally Conductive Epoxy

Terminals: Screws and Saddle Clamps Furnished, Unmounted

MECHANICAL DIMENSIONS

All dimensions are in inches (millimeters)



Screw Torque Requirements:

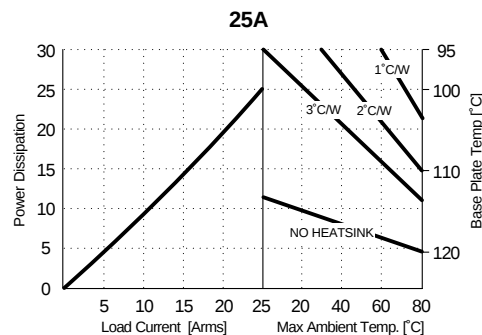
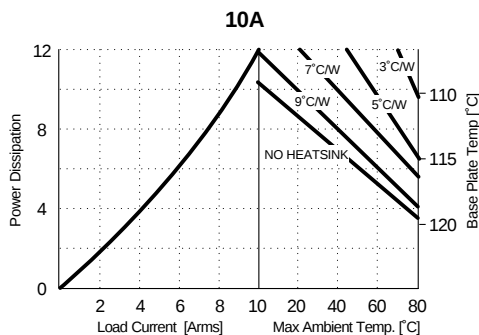
6-32 Screws - 10 in. lbs.,

8-32 Screws - 20 in. lbs.

(Screws dry without grease.)

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

CURRENT DERATING CURVES



APPROVALS

UL E116949
CSA LR81689
VDE 10143 UG



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