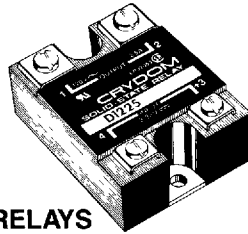


T-25-23

CRYDOM COMPANY

SOLID-STATE RELAYS AND INPUT/OUTPUT SWITCHES

SERIES 1



5 THRU 25 AMP/120 AND 240 VAC TRIAC AC OUTPUT SOLID-STATE RELAYS

Crydom Triac SSRs are quality-made devices designed for general purpose switching applications where performance requirements are less demanding than those offered by SCR output types. UL recognized, CSA certified & VDE approved.

General Specifications	DC Input	AC Input
Control Signal Range . . .	3 to 32 VDC	90 to 280 VAC
Input Current	4 mA @ 5 VDC	2 mA @ 120 VAC
Isolation Voltage	4000 VRMS	4000 VRMS
Oper. Temp. Range	-30°C to 80°C	-30°C to 80°C

DC Control Models—Triac Output

Crydom Model No.	Line VAC (47-63 Hz)	Max. Load Current, Amps (RMS)	One-Cycle Surge, Amps (PK)
TD1210	24-140	10	100
TD1225	24-140	25	250
TD2410	48-280	10	100
TD2425	48-280	25	250

AC Control Models—Triac Output

Crydom Model No.	Line VAC (47-63 Hz)	Max. Load Current, Amps (RMS)	One-Cycle Surge, Amps (PK)
TA1210	24-140	10	100
TA1225	24-140	25	250
TA2410	48-280	10	100
TA2425	48-280	25	250

TIME DELAY RELAYS 48 TO 280 VAC, 10, 25 OR 50 AMP 2 TIMING RANGES

Standard series 1 relay with built-in Time Delay (On-Operate) (External resistor for 0 to 1.0 Megohm.)

General Specifications

Control Voltage Range	3.5 to 15 VDC
Timing Range "DSD"0.1 to 83 sec
Timing Range "DLD"	1.6 to 133 sec

Crydom Model No.	Max Load Current, Amps (pk)	One-Cycle Surge Amps (pk)
DSD2410	10	120
DSD2425	25	250
DSD2450	50	625
DLD2410	10	120
DLD2425	25	250
DLD2450	50	625

SOFT-START POWER MODULES/RELAYS 90-140 AND 180-280 VAC 10 TO 75 AMPS

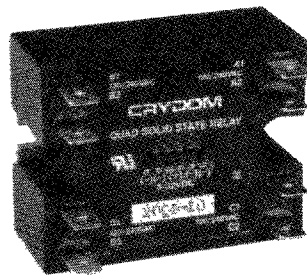
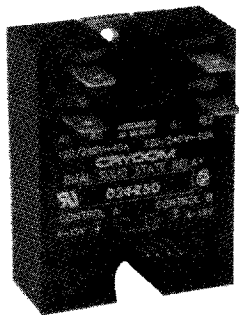
A control module is used in combination with a Crydom phase control relay to provide gradual application of power to the load.

General Specifications: All models.

Input Operate Voltage Range	3.5 to 10 VDC
Minimum Release Voltage1 VDC
Input Current @ 5 VDC	1.6 mA

Crydom Model No.	Output Voltage Range VAC	Max Load Current Amps
SST120	90-140	*
10SST120	90-140	10
25SST120	90-140	25
40SST120	90-140	40
SST240	180-280	*
10SST240	180-280	10
25SST240	180-280	25
40SST240	180-280	40
75SST240	180-280	75

*Control Module only, must use with - 10 suffix type DC input relay



25, 40 AMP Dual-SCR Output 20 AMP Quad-Triac Output

General Specifications

Isolation Voltage:	2500 VAC
Temperature Range:	
Storage	-40°C to 120°C
Operating:	-30°C to 80°C
Weight:35 oz. (98G) Max.
Control Signal Range	4-15 VDC
Must Operate Voltage4 VDC Max.
Must Release Voltage1 VDC Min.
Input Current	45 mADC Max.
Off-State dv/dt200V/usec Min.

DUAL—SCR OUTPUT

UL Recognized, CSA Certified

Crydom Model No.	Line VAC (47-70 Hz)	Max. Load Current Amps (RMS) (Per Section)	One-Cycle Surge Amps (PK) (Per Section)	Switching Mode
D2425D	24-280	25	350	Zero
D2425D-10	24-280	25	350	Non-Zero
D2440D	24-280	40	500	Zero
D2440D-10	24-280	40	500	Non-Zero

QUAD—TRIAC OUTPUT

UL Recognized, CSA Certified

TD2420Q	24-280	20	250	Zero
TD2420Q-10	24-280	20	250	Non-Zero

These space saving and cost saving "dual" and "quad" series provide two (2) or four (4) totally independent AC output solid state relays in a single Series 1 package. The "dual" types employ inverse parallel SCR outputs and are available in 25 AMP and 40 AMP models. The "quad" types have triac outputs. Protection is provided by an internal dv/dt snubber network across the output switch which restricts the rate of rise of most voltage transients to within acceptable limits. Features include 2500 VRMS optical isolation, zero voltage turn-on and zero current turn-off of the the load. Random voltage turn-on units (- 10 suffix) are also available for phase control applications.

These series are ideal when multiple SSR's are required for interfacing between the logic output of TTL, HTL, MOS or microprocessor circuits and AC loads such as motors, heaters, lamps, solenoids and transformers.