

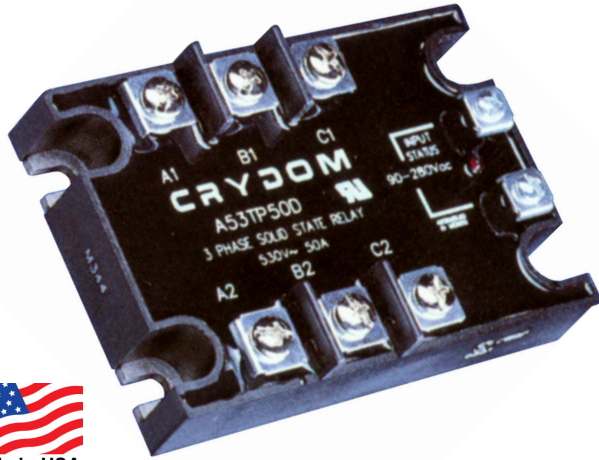


# CRYDOM SOLID STATE RELAYS

## 3 POLE MODELS • IDEAL FOR MULTIPLE HEATER ZONES

- Life Expectancy - 1 Billion Operations
- Random and Zero Voltage Switching (AC)
- Fits HE-90 Heat Sink
- Opto-Isolated 4000 V(RMS)
- Electrically Isolated Mounting Base
- AC or DC Control Signal Option

**ISO-9001**  
 MANUFACTURED IN A  
 QUALITY SYSTEM CERTIFIED  
 FACILITY.



### General Description

The Crydom 3-Pole solid state relay is designed to switch line voltages of up to 530V rms directly to loads such as motors, transformers, and heating elements. The use of power semiconductor technology ensures precise, clean make and break operation. Standard units incorporate circuitry which ensures switch-on at close to the zero cross-over point of load voltage thus virtually eliminating the generation of RFI and electrical noise. For switching of highly inductive loads, an instantaneous turn-on option is available. Power semiconductors generate heat energy during operation and a suitable heatsink must be used to keep the unit within its temperature ratings. The high current surge characteristics allow trouble-free switching of capacitive loads.

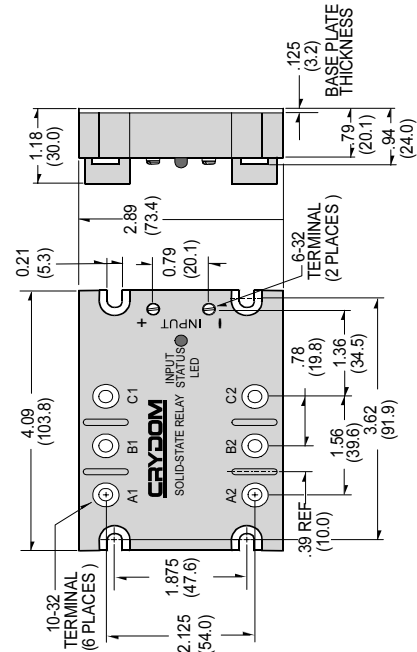
PART NO.	MAXIMUM CURRENT	LINE VOLTAGE	INPUT VOLTAGE	PRICE EACH	
				1-11	12+
D53TP25D	25A	48-530VAC	3-32VDC	\$150.60	\$143.80
D53TP50D	50A	48-530VAC	3-32VDC	\$167.60	\$159.90
A53TP25D	25A	48-530VAC	90-280VAC	\$157.05	\$150.20
A53TP50D	50A	48-530VAC	90-280VAC	\$173.90	\$166.20

OUTPUT CHARACTERISTICS		25 AMPS	50 AMPS	UNITS
MODEL NO.	Control	A53TP25D	A53TP50D	
	AC Control			
	DC Control	D53TP25D	D53TP50D	
Operating Voltage Range (47-63 Hz)		48-530		Vrms
Maximum Load Current		25	50	Arms
Minimum Load Current		50		mArms
Transient Overvoltage		1200		Vpk
Maximum Surge Current 16.6ms (Non-Repetitive)		300	500	Apk
Maximum Over Current (Non-Repetitive) 1 sec.		40	80	Arms
Maximum On-State Voltage Drop@Rated Current		1.6		Vpk
Maximum I <sup>2</sup> T For Fusing (8.3msec)		450	1250	A <sup>2</sup> sec
Power Dissipation@Maximum Current		29	55	Watts
Maximum Peak Repetitive Turn-on Voltage		35		Vpk
Max. Off-State Leakage Current@Rated Voltage		10		Vrms
Min. Off-State dv/dt (Static)@Max. Rated Voltage		500		V/usec

INPUT CHARACTERISTICS	DC INPUT MODELS	AC INPUT MODELS
Control Voltage Range	3 to 32 VDC	90 to 280 Vrms (60 Hz)
Maximum Reverse Voltage	-32 VDC	-
Maximum Turn-On Voltage	3.0 VDC	90 Vrms
Minimum Turn-Off Voltage	1.0 VDC	10 Vrms
Minimum Input Impedance	330 ohms	16.7 K ohms
Maximum Turn-On Time (@60 Hz)	8.3 msec	10 msec
Maximum Turn-Off Time (@60 Hz)	8.3 msec	40 msec

### DIMENSIONAL DRAWING

Tolerances: ±0.5mm (unless otherwise noted)  
 Dimensions: mm (inches)  
 Weight: 16 oz. (450g)



## PLASTIC PROCESS EQUIPMENT, INC.

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