

## Solid State Timers and Controllers



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Repeatability Of Timing Periods: Timing Variation:			$\pm$ 1% nominal. $\pm$ 6% maximum variation from preset timing periods over entire operati				
Output:		ycle Time: 200 mill Output: DPDT r out Rating: UL rate CSA rat	voltage and temperature range specified. 200 milliseconds maximum. DPDT relay contacts. UL rated for 10A, 1/3 HP, 125V, 250V AC, 10A 30V DC CSA rated for 10A, 1/4 HP, 125V, 250V AC, 10A 30V DC relay is cover				
Output life Expectancy:			by UL File No. E57520, and CSA File No. LR26550. 50,000 operations at 10A 250V AC and 3A at 30V DC. 1,500 Vrms for one minute between contact sets, 1,000 Vrms for o minute between open contacts, and 2,000 Vrms between contacts a operating voltage terminals for one minute.				
	Transient F	Protection: The timi transier the ope	The timing circuit and the solid state output switch are protected by silice transient absorption devices that shunt transients which exceed 2 time the operating voltage. Transient protection devices are capable withstanding up to 1500 watts of transient energy.				
)rdering inf	Operating Ten Agency re	sion Date: October	) +70°C E47858 ( ⁺18, 1996	Componer	nt Auxiliary Devices AT	"NZ2).	
	Operating Voltage					ET.	Tolerance
4603F	-2 (12V DC) -3 (24V DC) -4 (48V DC) -5 (110V DC) -6 (24V AC) -7 (48V AC) -8 (115V AC)	Specify From 2 To 20,000 Seconds	-В -С	5% 10%	Specify From 0.1 Second To 90% of The Repeat Cycle Time Specified	-В -С	5% 10%

4603F - 2 - 0.8 - C - 0.2 - C (12V DC operating voltage with a Repeat Cycle Time of 0.8 seconds (800 milliseconds) to a 10% tolerance, with an Energize Time of 0.2 seconds (200 milliseconds) to a tolerance of 10%)

4603F - 8 - 4000 - B - 800 - C (115V AC operating voltage with Repeat Cycle Time of 4000 seconds to a 5% tolerance, with an Energize Time of 800 seconds to a tolerance of 10%)

## Ordering Information For Adjustable Timing Models .....

Part Number	Operating Voltage	Repeat Cycle Time	Energize Time
4603A	-2 (12V DC) -3 (24V DC) -4 (48V DC) -5 (110V DC) -6 (24V AC) -7 (48V AC) -8 (115V AC) -9 (230V AC)	-1 2 - 50 -2 20 - 500 -3 30 - 1500 -4 100 - 8000 Repeat Cycle Time In Seconds	-10.1 - 3Note: Some combinations of Repeat Cycle-21 - 30Time and Energize Time will permit the Energize Time to be adjusted to a time that is greater than the Repeat Cycle-32 - 100Time. If this occurs, the output relay will remain energized for 100% of the time. Exercise caution in selection, and care in setting up the timing periods to avoid this problem.

4603A - 2 - 3 - 2 (12V DC operating voltage with an adjustable Repeat Cycle Time from 30 to 1500 seconds, and an adjustable Energize Time from 1 to 30 seconds)

4603A - 9 - 4 - 3 (230V AC operating voltage with an adjustable Repeat Cycle Time from 100 to 8000 seconds, and an adjustable Energize Time from 2 to 100 seconds)