

A compact and economical motor-driven cam timer, the 324C precisely controls one to twelve load circuits through easily-set screwdriver adjustable cams. Each timer provides a wide range of cycle times through a set of interchangeable gears.

**EASY AND PRECISE CAM ADJUSTMENT:** With ATC's unique split-cam design, each side of the cam is separately screwdriver-adjustable in either direction: either side determines the precise instant during the cycle when the switch will actuate, the other side determines how long the switch will remain actuated. Adjustments are easy and precise: 1/4 turn of the adjusting screw equals 0.5% of cycle time. A setting disc, calibrated in 1% increments, facilitates program set-up and indicates cycle progress.

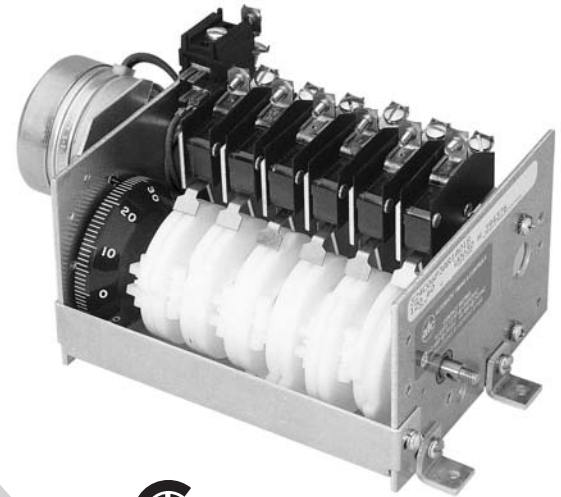
**ONE TO TWELVE PRECISION SWITCHES:** Whether used as a time or sequence programmer, the 324C can be ordered with any number of cam-operated switches from one to twelve. Each SPDT precision switch is rated at 10 amps, 120 VAC and is 1/3 hp rated at 120 or 240 VAC.

**WIDE RANGE OF CYCLE TIMES:** The 324C is available with a choice of 14 synchronous motors that provide more than 270 cycle times between 3 SEC and 60 HRS. Each motor provides an adjustable range of 21 cycle times, with a ratio of over 2.5:1, through a set of interchangeable gears. Changing gears is a simple operation that takes only a few minutes.

**ACCURACY:** The repeat accuracy and setting accuracy of the 324C are both within  $\pm 0.25\%$ . Follower fingers precisely track the contour of the cams, accurately operating the precision switches with quick-break action.

**SEQUENCE CONTROL:** The 324C can be ordered without a motor and with a 1 inch long shaft extension on either or both ends, for use as a rotary cam limit switch.

**APPROVALS:** File No. E24305, LR26970



Precision Switch Cam Programmer

## SPECIFICATIONS

CYCLE TIMES	Choice of ON-Delay or OFF-Delay operation (not field-convertible). More than 270 cycle times, from 3 SEC to 60 HRS., from a choice of interchangeable motors and gears; each motor provides more than 20 cycle times.	LOAD SWITCHES	TYPE: Precision switches; one for each cam
	REPEAT ACCURACY		$\pm 0.25\%$ of cycle time.
SETTING ACCURACY	$\pm 0.25\%$ of cycle time	CONTACT RATING: 10 A at 120 VAC (non-inductive). 1/3 HP at 125/250 VAC	MINIMUM CONTACT ACTUATION TIME: 1% of cycle time
FRAME SIZES	3, 6, 9 and 12 cam frame sizes are provided	DRIVE MOTORS	SPEED: choice of 14
CAMS	NUMBER: 1 to 12 (or multiples up to 12, by combining timer assemblies); cams may be factory-set.	TEMPERATURE RATING	TYPE: Synchronous; permanently lubricated; integral slip clutch for manual advance; anti-backup to prevent damage to switches
	CUT: Standard or "50% cut", as specified (standard cams allow contact closure adjustment of 1 to 45% or 55 to 99%, "50% cut" cams allow contact closure adjustment of 12 to 52% or 48 to 88%; custom cams available with 2, 3, 4 or more cuts.		VOLTAGE: 120 VAC, 50 or 60 cycles; optional: 24 or 240 VAC, 50 or 60 cycles.
LIFE EXPECTANCY	CONSTRUCTION: Two-inch diameter split type; made of Delrin	WEIGHT	POWER CONSUMPTION: 12 watts max. DUAL DRIVE: two motors may be used, for dual-speed and special applications
	MECHANICAL: over 10,000,000 operations	ENCLOSURES (Optional)	TORQUE-SPEED CAPABILITIES: At cycle times of 30 SEC or longer, the 324 can drive and switch 12 contacts simultaneously; below 30 SEC, the motor may be limited in its ability to drive or switch a number of contacts simultaneously.
	CONTACTS: over 1,000,000 operations at less than 1 amp		



