

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.

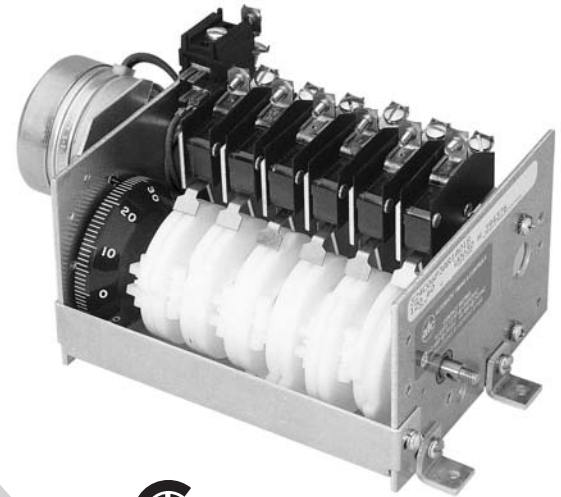
ONE TO TWELVE PRECISION SWITCHES: Whether used as a time or sequence programmer, the 324C can be ordered with any number of cam-operated switches from one to twelve. Each SPDT precision switch is rated at 10 amps, 120 VAC and is 1/3 hp rated at 120 or 240 VAC.

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 CONTACT ACTION: SPDT (Form C) CONTACT RATING: 10 A at 120 VAC (non-inductive). 1/3 HP at 125/250 VAC MINIMUM CONTACT ACTUATION TIME: 1% of cycle time
REPEAT ACCURACY	$\pm 0.25\%$ of cycle time.		SPEED: choice of 14
SETTING ACCURACY	$\pm 0.25\%$ of cycle time		TYPE: Synchronous; permanently lubricated; integral slip clutch for manual advance; anti-backup to prevent damage to switches
FRAME SIZES	3, 6, 9 and 12 cam frame sizes are provided		VOLTAGE: 120 VAC, 50 or 60 cycles; optional: 24 or 240 VAC, 50 or 60 cycles.
CAMS	NUMBER: 1 to 12 (or multiples up to 12, by combining timer assemblies); cams may be factory-set. 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. CONSTRUCTION: Two-inch diameter split type; made of Delrin	DRIVE MOTORS	POWER CONSUMPTION: 12 watts max. DUAL DRIVE: two motors may be used, for dual-speed and special applications 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.
LIFE EXPECTANCY	MECHANICAL: over 10,000,000 operations CONTACTS: over 1,000,000 operations at less than 1 amp	TEMPERATURE RATING	32 to 140°F (0 to 60°C)
		WEIGHT	NET: from 1-1/2 lbs. for the 3 cam unit up to 3-1/2 lbs. for the 12 cam unit
		ENCLOSURES (Optional)	NEMA 12 molded case for one model 324 with maximum of 3 cams. (See Accessories)

