A compact and motor-driven cam timer, the 324 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 324 can be ordered with any number of camoperated switches from one to twelve. Each SPDT precision switch is rated at $10 \mathrm{amps}, 120$ VAC and is $1 / 3 \mathrm{hp}$ rated at 120 or 240 VAC.

WIDE RANGE OF CYCLE TIMES: The 324 is available with a variety of synchronous motors. See charts for available timing ranges. Each motor provides an adjustable range of 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 324 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 324 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.

## SPECIFICATIONS



## MODEL NUMBER

MODEL NUMBER 324C

## NUMBER OF SWITCHES

| 1 Switch, 3 Cams | 01 |
| :--- | :--- |
| 2 Switches, 3 Cams | 02 |
| 3 Switches, 3 Cams | 03 |
| 4 Switches, 6 Cams | 04 |
| 5 Switches, 6 Cams | 05 |
| 6 Switches, 6 Cams | 06 |
| 7 Switches, 9 Cams | 07 |
| 8 Switches, 9 Cams | 08 |
| 9 Switches, 9 Cams | 09 |
| 10 Switches, 12 Cams | 10 |
| 11 Switches, 12 Cams | 11 |
| 12 Switches, 12 Cams | 12 |

CYCLE TIME MOTOR SPEED

| No Motor | 0 |
| :--- | :---: |
| $\frac{\mathrm{rrpm}}{150 \mathrm{rph}}$ | B |
|  | E |
| 15 rph | F |
| 5 rph | G |
| 2.5 rph | H |
| 1 rph | L |
| $1 / 6 \mathrm{rph}$ |  |

CYCLE TIME MOTOR PINION

| No Motor | 0 |
| :--- | :--- |
| 24 Teeth $(300-495-01-00)$ | 1 |
| 30 Teeth $(300-495-02-00)$ | 2 |
| 40 Teeth $(300-495-03-00)$ | 3 |

CYCLE TIME CAM SHAFT GEAR

| No Motor | 0 |
| :--- | :---: |
| 30 Teeth $(300-495-11-00)$ | A |
| 36 Teeth $(300-495-12-00)$ | B |
| 40 Teeth $(300-495-13-00)$ | C |
| 45 Teeth $(300-495-14-00)$ | D |
| 50 Teeth $(300-495-17-00)$ | E |
| 55 Teeth $(300-495-15-00)$ | F |
| 60 Teeth $(300-495-16-00)$ | G |

## OPERATION

| Repeat Cycle/Stop Cycle <br> Dynamic Brake | R |
| :--- | :--- |
| Eternal Drive by user, <br> no motor | E |
| Special | K |

MOTORS

| 1 Motor | 1 |
| :---: | :---: |
| 2 motors | 2 |
| No motor | 3 |
| Special | 0 |
| VOLTAGE \& FREQUENCY |  |
| 120/60 | A |
| 240/60* | B |
| 120/50 | C |
| 240/50* | D |
| No motor | X |
| OPTIONS |  |
| None | 01 |
| 1/4" dia. x 1 " long shaft extension right end (Units with one or no motor) | 02 |
| 1/4" dia. x 1 " long shaft extension <br> left end (Units with one or no motor) | 03 |
| 1/4" dia. x 1 " long shaft extension both ends (On motorless units only) | 04 |
| Special | 00 |
| FEATURES |  |
| Standard (other than cam settings) (Blades) | X |
| Special | K |
| NOTES CAMS |  |

Factory setting cams to $0.25 \%$ tolerance, $50 \%$ cams allow 12 to $52 \%$ or 48 to $88 \%$ adjustment of switch actuation. 2, 3, or 4 cuts equally spaced. Have limited adjustability. (Does not include $50 \%$ cams with multiple cuts) Multiple cuts, unequally spaced. Multiple cuts over 4. Specially cut or specially molded cams.

## CONTACT SWITCH

Switch with Bracket
324-260-82-00
${ }^{1}$ For Stop Cycle, or Brake operation, specify a 324 with one more switch than you need for your load circuits. (Do not exceed 12 switches total!) You interwire this switch to the motor according to the installation instruction for the unit.
${ }^{2}$ Be sure to specify shaft extension under OPTIONS
For prices and further information, consult factory.

## TIME CYCLE ORDERING CODES

Select Time Cycle from table; if it is available with more than one motor and gearing combination, pick the combination which would best accommodate potential future speed changes. 3 Digit Speed Code identifies motor.

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 s！suun ios omp әut fo uoppasaəpu！ corresponds to the fastest time
cycle you intend to use．It the

 neously is determined in the chart
below．Pick the vertical column number of load contacts simulta－
neously is determined in the chart The ability of the $324 C$ to trip a



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[^0]:    * 240 V option limited to availability

