

SPECIFICATIONS

MODELS

One only; does not reset on power interruption.

RANGES

15 standard ranges, from 15 sec to 60 hrs at 60 Hz (18 sec to 70 hrs at 50 Hz); 9 ranges, from 30 sec to 240 min for DC operation; as listed in Price Sheet.

MIN. SETTING

1/60th of range.

REPEAT ACCURACY

± 0.2% of full scale (AC only).

RESET TIME

1/10 sec full scale.

PILOT LIGHT

Standard; wired in parallel with motor.

DIAL DIVISIONS

60 sec., 120 sec., 240 sec., 6 min., 60 min., 120 min., 240 min., 6 hr. and 60 hr. — 120 Dial Divisions

15 sec., 30 sec., 15 min., 30 min., 15 hr. and 30 hr. — 150 Dial Divisions

LIFE EXPECTANCY

MECHANICAL: 1,000,000 operations.
CONTACTS: over 1,000,000 operations (average) under a resistive or inductive load of 1A.

TIMING MOTOR — AC MODELS

Synchronous, permanently lubricated.

TIMING MODES

Single cycle interval timing only.

LOAD SWITCHES

NUMBER: two SPDT switches with open blade contacts; also available with one SPDT switch, on quantity orders only.

CONTACT RATING

(non-inductive): 10 A at 115V AC
5 A at 230V AC
¼ A at 115V DC

TERMINALS

Screw terminals accessible at rear; wiring diagram on housing.

HOUSING

Plug-in design; completely gasketed, dust-tight when surface or panel-mounted.

POWER REQUIREMENTS

AC MODELS: 115 or 230V, 50 or 60 Hz; 5 watts max.

DC MODELS: 28, 48, 125 or 250V, .015A. Special voltages and frequency on order.

TEMPERATURE RATING

32 to 120°F (0 to 50°C)

WEIGHT

NET: 1 lb.

SHIPPING: 1 lb., 5 oz.

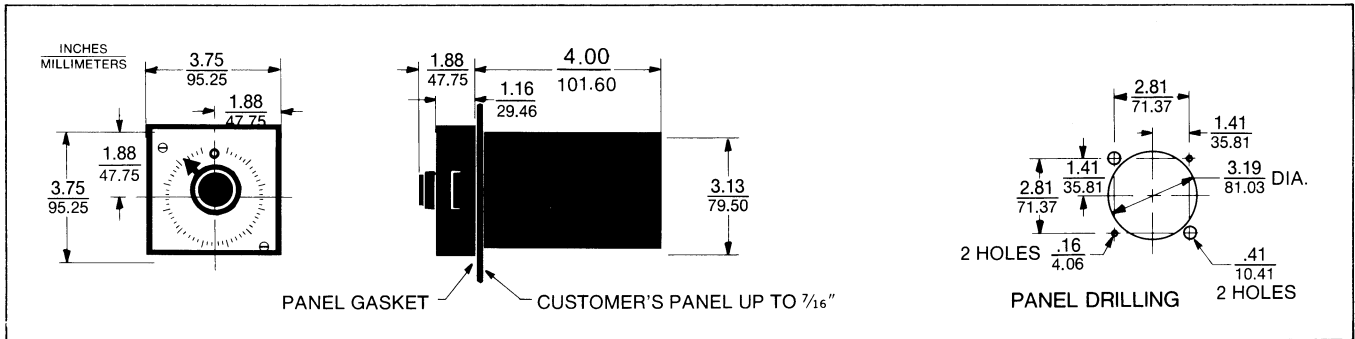
MOUNTING ACCESSORIES

STANDARD: Hardware is provided to mount timer so that it is dust-tight from front of panel.

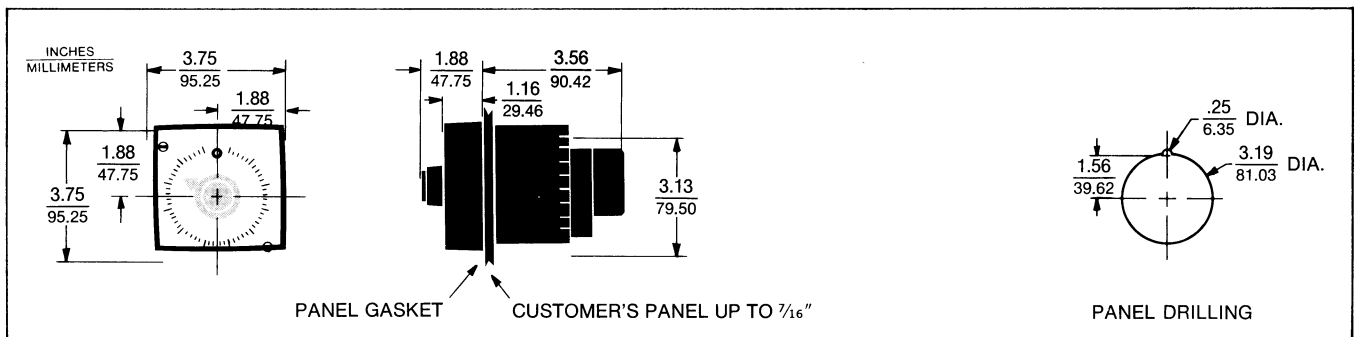
OPTIONAL: (See last pages of catalog for detailed description). NEMA 12 case for one timer. NEMA 1 case for one or two timers.

Before starting your design, read the safety statement in the front of the ATC catalog.

DIMENSIONS

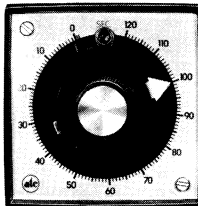


PLUG-IN TIMER



NON-PLUG-IN TIMER

MOTOR-DRIVEN PUSHBUTTON TIMER



ORDERING CODE 309E 008 A 04 P X

BASIC TYPE _____

RANGES—120 V/60 Cycles _____

004	15 Sec.
006	30 Sec.
007	60 Sec.
008	120 Sec.
011	240 Sec.
029	6 Min.
014	10 Min.
015	15 Min.
016	30 Min.
017	60 Min.
018	120 Min.
019	240 Min.
030	6 Hr.
021	15 Hr.
022	30 Hr.
023	60 Hr.

RANGES—120 V/50 Cycles _____

071	18 Sec.
165	35 Sec.
166	70 Sec.
167	140 Sec.
157	280 Sec.
168	7 Min.
049	18 Min.
169	35 Min.
170	70 Min.
171	140 Min.
160	280 Min.
164	7 Hr.
161	18 Hr.
162	35 Hr.
163	70 Hr.

RANGE—DC _____

006	30 Sec.
007	60 Sec.
008	120 Sec.
011	240 Sec.
015	15 Min.
016	30 Min.
017	60 Min.
018	120 Min.
019	240 Min.
000	Special

VOLTAGE AND FREQUENCY _____

A	120/60
B	240/60
C	120/50
D	240/50
H	28 V DC
J	48 V DC
L	125 V DC
M	250 V DC
K	Special

NUMBER OF SWITCHES _____

04	Two SPDT, Open Blade
00	Special

FEATURES _____

P	Basic, standard plug-in timer
S	Surface mounting plug-in timer
X	Non plug-in timer complete with O-ring clamp for one-hole mtg.
X	Standard
K	Special

ACCESSORIES _____

03052636400	Surface mounting bracket— rear facing terminals
03092611900	Surface mount plug-in timer receptacle with front facing terminals



**AUTOMATIC TIMING & CONTROLS
COMPANY, INC.**

OPERATION

When the built-in *start* button is pushed, power is applied to the timer motor. The two SPDT load switches transfer immediately from one set of contacts to the other and the motor begins to drive the cycle progress pointer toward zero.

At the end of the dial-set time interval, the pointer trips an actuator lever, returning the load switches to their *before start* position. The clutch also disengages, the cycle progress pointer returns to the reset condition and the motor stops. The cycle repeats when the button is pushed again.

The 309 stops timing but does not reset on power interruption; it resumes the interrupted cycle when power is restored.

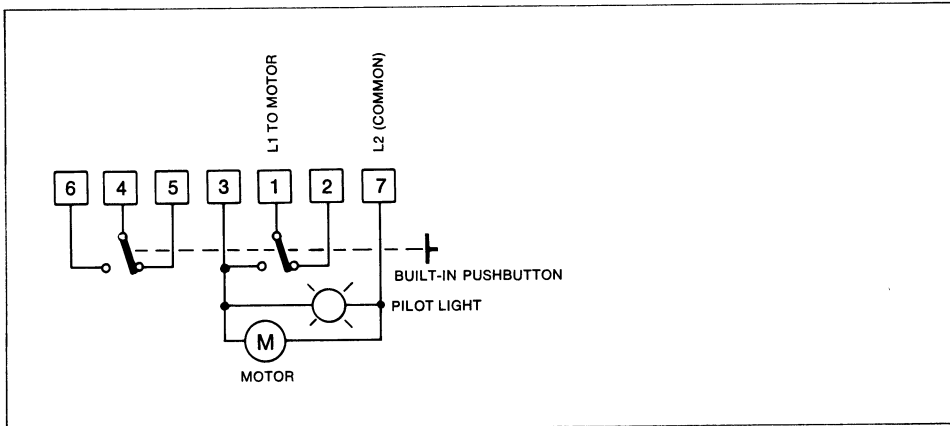
SWITCHING SEQUENCE

SWITCH	CONTACTS	Before Start	During Cycle	End of Cycle
INTERVAL	1-3/4-6			RESETS TO BEFORE START
	1-2/4-5			



Concerning Safety...ATC makes every effort to build a safe product. We try to state specifications accurately. But every product made will eventually fail, so design our products into equipment so that they fail safely.

WIRING



TERMINAL WIRING

