

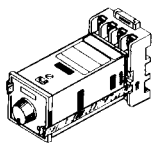
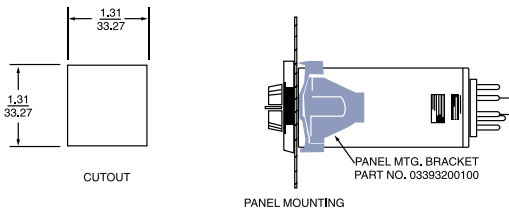
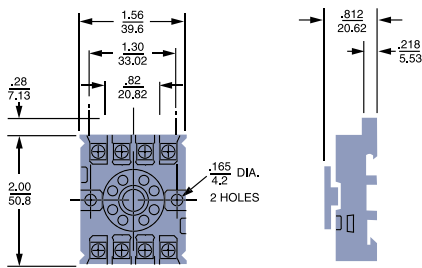
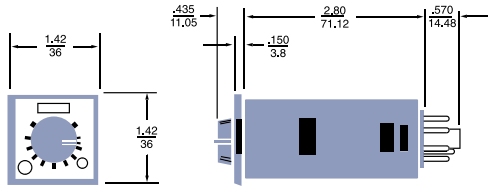
DIMENSIONS:
INCHES
MILLIMETERS



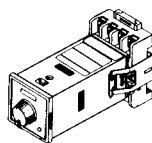
Series 329

Economical TDR

TIMERS



0008258500 SOCKET WITH
03390250300 HOLDDOWNS



TYPICAL OTHER SOCKET WITH
03390250200 HOLDDOWNS

PRODUCT HIGHLIGHTS

PRICE/PERFORMANCE VALUE

The economical 329 is the lowest cost TDR ever offered by ATC. Ruggedly designed into a 36 x 36 mm housing, the 329 On-Delay TDR combines both highly accurate and repeatable timing with industrial quality that is usually found in only the more expensive timers.

CHOICE OF RANGES

The 329 is offered in a choice of eight different fixed ranges between 0.3 seconds to 3.0 minutes to permit optimum setting accuracy. The dial face clearly displays the range.

DESIGNED FOR INDUSTRIAL SERVICE

The 329 incorporates features designed to ensure a long trouble-free life expectancy, even in difficult industrial environments: high impact resistant housing with octal plug-in base that is easily surface/DIN or panel mounted; a DPDT 5 amp relay rated for 10 million operations at no load; and an oscillator-based timing circuit for high accuracy even with changes in temperature and voltage.

HIGH ACCURACY

The 329's timing circuit is not a simple RC circuit, but it utilizes the sophistication of a proprietary integrated circuit that includes counting technology along with a stable oscillator to provide repeatable time delays.

APPROVALS

Pending

The most economical solid state TDR offered from ATC, the 329 on-delay TDR with plug-in base maintains excellent repeat accuracy despite wide voltage and temperature variations. A choice of eight fixed ranges are available from 0.3 seconds to 3 minutes.

Before starting your design, read the safety statement on the inside back cover of the ATC catalog.

SPECIFICATIONS

FOR MODEL 329

MODE OF OPERATION

All models operate in on-delay mode only.

LOAD RELAY

TYPE: DPDT 5 Amps resistive at 30 VDC or
240 VAC (or less)
1/8 HP @ 120 VAC
1/4 HP @ 240 VAC
240 VA @ 240 VAC

LIFE: 100,000 operations at full load:
5 A at 30 VAC (or less) resistive
5 A at 240 VAC (or less) resistive
10 million operations with no load

CONTACT MATERIAL;

Silver Cadmium Oxide

TEMPERATURE RATING

-17° to 55° C. (0° TO 131°F)

SETTING ACCURACY

+/- 15%

MOUNTING

Plug-in octal base; mounts in any position with retaining clips.

OPTIONS: surface mounting socket

DIN rail mounting socket

panel-mounting adapter kit

plug-on socket

rear facing terminal socket

RANGES

Choice of 8 fixed ranges

0.3 sec

1.0 sec
3.0 sec
5.0 sec
10.0 sec
30.0 sec
1 min
3 min

MINIMUM SETTING

5% of range, plus 50 ms on 0.3, 1.0, and 3.0 sec ranges.

REPEAT ACCURACY

Varies as a function of line voltage and temperature but not of reset time

- +0.5%* at constant temperature and voltage, (or +/-15 ms, whichever is greater)
- +/-2.0 at constant voltage, and full temperature range. (or +/-25 ms, whichever is greater)
- +/-1.5%* at constant temperature and full voltage range. (or +/-25 ms, whichever is greater)
- +/-3.5%* over full voltage and temperature range. (or +/-30 ms, whichever is greater). Variations of line and voltage must be within 95 and 132V; of temperature between -17 and 55C (0 and 131F)

*Variation from average actual time.

RESET

- 0 to 20 ms power interruption; guaranteed no reset.
- 20 ms to 100 ms; it may reset. (40 ms typical reset).
- Over 100 ms guaranteed to reset.

POWER REQUIREMENTS

95 to 132 volts AC, 50/60 HZ

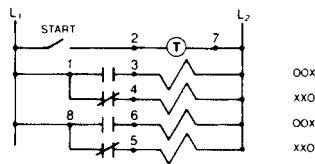
Running - .020 A

OPERATION

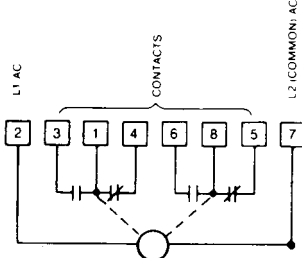
Timing begins when the start switch is closed. This starts an oscillator which runs at a frequency determined by the time setting. A fixed number of counts from the oscillator determines the end of the time cycle. The time required to accomplish this depends on the oscillator frequency.

At time out, the built-in relay transfers its contacts. These contacts remain transferred until the start switch is opened or power is removed by some other means. The 329A then resets and is ready for another cycle.

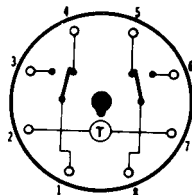
TYPICAL CIRCUIT ON DELAY



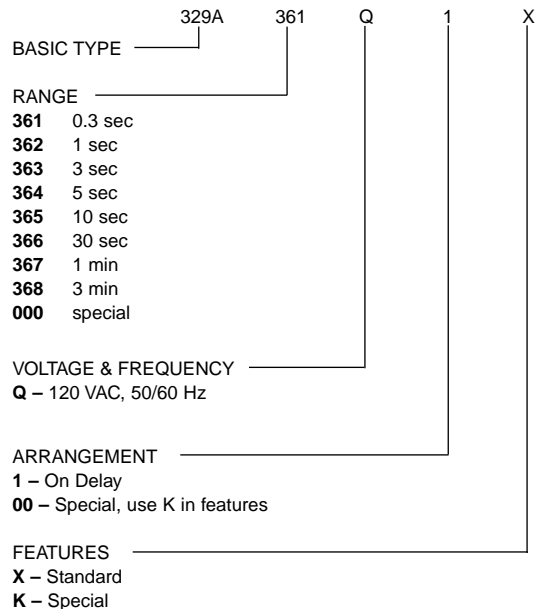
WIRING



TERMINAL WIRING



ORDERING CODE



Before starting your design, read the safety statement on the inside back cover of the ATC catalog.