339B Series

The 339B is a solid-state TDR with octal plug-in base that maintains excellent repeat accuracy despite wide voltage and temperature variations even after long periods of down-time. The 339B has six dial selected ranges from fractions of a second to as long as 10 hours and selectable on-delay or interval timing modes. Fixed timing units are available upon request.

WIDE CHOICE OF RANGES: In addition to the short ranges expected of an electronic TDR, the 339 is also available with ranges as long as 10 hours. An unusually versatile timer, the 339 has six dial-selected ranges-from 0.3 seconds to 3 hours or 1 second to 10 hours-and provides dial-adjustable timing periods between 0.075 seconds and 10 hours. A single 339 model thus accommodates the needs of a wide range of applications, allowing the user to select easily and precisely-an appropriate range to permit optimum setting accuracy. The dial face automatically displays the selected range.

CYCLE PROGRESS INDICATION: The 339's LED annunciator provides a unique and effective method of cycle progress indication. Off before timing, the LED blinks at an ever-increasing rate as the cycle progresses; once every 3-1/2seconds during the first 10% of the cycle, twice during the second 10%, and so on. At time-out, the LED stays on constantly, pulsing at a high rate. (In the 1 and 10-second ranges, the LED is off before timing, steady on during timing, and pulsing on after time-out.)

HIGH ACCURACY: The 339's timing circuit is not a simple RC circuit, but includes counting technology along with a stable oscillator to provide repeatable time delays.

MULTIPLE TIMING MODES: Every 339 can be used for either on-delay or interval timing operation. The timing mode is selectable by a switch on the 339 housing.

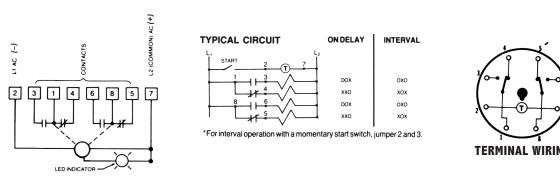
OPERATION

WIRING

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. During timing, a LED located on the dial face blinks. For the first ten percent of the cycle, the LED repeatedly blinks once followed by a pause, for the second 10%, it blinks twice and so on indicating the cycle progress. It flashes rapidly and continuously after time out.

ON-DELAY MODE: 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 339 then resets and is ready for another cycle.

INTERVAL MODE: When timing begins, the built-in relay transfers its contacts. The contacts remain transferred until time out. The timer will not start again until the start switch is opened or power is removed by some other means. The 339 then resets and is ready for another cycle.





Plug-In Adjustable Time Delay Relay

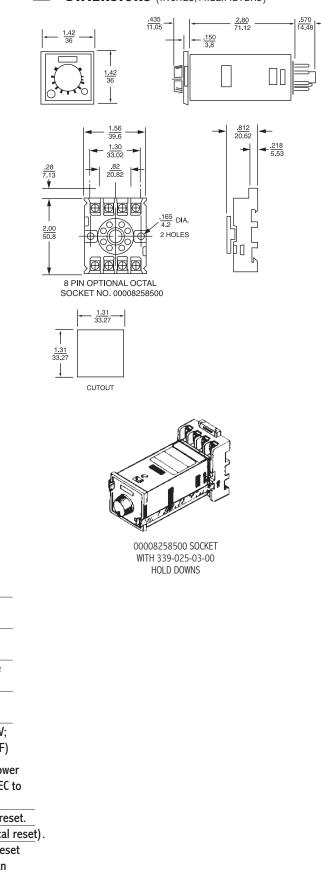
| MODEL NUMBE | R | | | |
|--|---------------|---------------|--|---|
| MODEL NUMBER 339B | | | | |
| RANGE | | | | |
| Six dial-selected ranges (.3 or 3 SEC, MIN, HR) | 359 | | | |
| Six dial-selected ranges (1 or 10 SEC, MIN, HR) | 200 | | | |
| VOLTAGE & FREQUENCY | | | | |
| 120 VAC, 50/60 Hz | Q | | | |
| 240 VAC, 50/60 Hz | R | | | |
| 24 VAC, 50/60 Hz, 24 V | T | | | |
| 12 VDC | | E | | |
| ARRANGEMENT | | | | |
| ON-Delay, Interval Mode | | 2 | | |
| Special | | 0 | | |
| FEATURES | | | | |
| Standard | | | | X |
| Special | | | | |
| ACCESSORIES | | | | |
| 8-Pin surface/DIN rail so | 000-825-85-00 | | | |
| Hold down for above socket | | 339-025-03-00 | | |
| (2 required) | | | | |
| Plug-in socket kit (8-pin) | | 319-261-45-00 | | |



DECIFICATIONS

| or 250 VAC (or less) 1/8 HP @120 VAC LIFE 10 million operations with no load 100,000 operations with:10 AMPS at 30 VDC (or less) or 10 AMPS at 30 VDC (or less) cOntAct CONTACT Silver Nickel MATERIAL 0° to 140°F (-17° to 60°C) RATING 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. POWER 120 VAC 95 - 132 VAC, 50/60 Hz Inrush4A Running025 240 VAC 190 - 264 VAC, 50/60 Hz Inrush4A Running013A 24 VAC/DC 19.2 - 26.4 VAC/DC Inrush4A Running075A 12 VDC 9.6 - 13.2 VDC Inrush25A Running10A REPEAT ACCURACY Varies as a function of line voltage and temperature but not of reset time a ± 0.5% at constant temperature and voltage. (or ± 15 mSEC whichever is greater) b ± 1%* at constant voltage and full temperature range. (or ± 25 mSEC whichever is greater) b ± 1%* at constant voltage and temperature range. (or ± 30 mSEC, whichever is greater) c ± 1.5%* at constant temperature and full voltage range. (or ± 30 mSEC, wh | | TIONS | | |
|--|-----------------|--|--|--|
| Six dial-selected ranges: 1.0 and 10 SEC, MIN, HR or 0.3 and 3 SEC, MIN, HR MINIMUM SETTING 3% of range, except 75 mSEC on 0.3 SEC and 1.0 SEC ranges. LOAD RELAY TYPE DPDT 10 AMPS resistive at 30 VDC or 250 VAC (or less) 1/8 HP @120 VAC LIFE LIFE 10 million operations with no load 100,000 operations with: 10 AMPS at 30 VDC (or less) or 10 AMPS at 250 VAC (or less) CONTACT Silver Nickel MATERIAL TEMPERATURE RATING 0° to 140°F (-17° to 60°C) MOUNTING Plug-in octal base; mounts in any position with retaining clips. OPTIONS: Surface mounting socket DIN rail mounting socket PUIG-IN OSC HE Rear facing terminal socket. 120 VAC 95 - 132 VAC, 50/60Hz Inrush4A Running025 240 VAC 190 - 264 VAC, 50/60 Hz Inrush2A Running013A 24 VAC/DC 19.2 - 26.4 VAC/DC Inrush2A Running013A 24 VAC/DC 19.2 - 26.4 VAC/DC Inrush4A Running013A 24 VAC/DC 19.2 - 26.4 VAC/DC Inrush25 Running10A REPEAT ACCURACY Varies as a function of line voltage and temperature but not of reset time a ±0.5% at constant temperature and voltage. (or ±15 mSEC whichever is greater) b ± 1%* at constant temperature and full voltage range. (or ± 25 mSEC whichever is greater) c ± 1.5%* at constant temperature and full voltage range. (or ± 25 mSEC whichever is greater) c ± 1.5%* over full voltage must be within 95 and 132V of temperature between -17° and 60°C (0 | MODELS | | | |
| 1.0 SEC ranges. LOAD RELAY TYPE DPDT 10 AMPS resistive at 30 VDC or 250 VAC (or less) 1/8 HP @120 VAC LIFE 10 million operations with no load 100,000 operations with: 10 AMPS at 30 VDC (or less) or 10 AMPS at 250 VAC (or less) CONTACT Silver Nickel MATERIAL TEMPERATURE RATING 0° to 140°F (-17° to 60°C) MOUNTING Plug-in octal base; mounts in any position with retaining clips. OPTIONS: Surface mounting socket DIN rail mounting socket PWER REQUIREMENTS 120 VAC 95 - 132 VAC,50/60Hz Inrush4A Running025 240 VAC 190 - 264 VAC, 50/60 Hz Inrush2A Running013A 24 VAC/DC 19.2 - 26.4 VAC/DC Inrush2A Running013A 24 VAC/DC 19.2 - 26.4 VAC/DC Inrush25A Running10A REPEAT ACCURACY Varies as a function of line voltage and temperature but not of reset time a ±0.5% at constant temperature and voltage. (or ±15 mSEC whichever is greater) b ±1%* at constant toltage and full temperature range. (or ± 25 mSEC whichever is greater) c ± 1.5%* at constant temperature and full voltage range. (or ± 25 mSEC whichever is greater) c ± 1.5%* at constant temperature range. (or ± 30 mSEC, whichever is greater) d ±2%* over full voltage must be within 95 and 132V of temperature between -17° | RANGES | Six dial-selected ranges: 1.0 and 10 SEC, MIN, | | |
| or 250 VAC (or less) 1/8 HP @120 VAC LIFE 10 million operations with no load 100,000 operations with:10 AMPS at 30 VDC (or less) or 10 AMPS at 250 VAC (or less) 0 vDC (or less) CONTACT Silver Nickel MATERIAL MATERIAL TEMPERATURE 0° to 140°F (-17° to 60°C) RATING Plug-in octal base; mounts in any position with retaining clips. OPTIONS Surface mounting socket Panel-mounting adapter kit Plug-on socket Requirements 120 VAC 95 - 132 VAC, 50/60Hz Inrush4A Running025 240 VAC 190 - 264 VAC, 50/60 Hz Inrush4A Running013A 24 VAC/DC 19.2 - 26.4 VAC/DC Inrush2A Running013A 24 VAC/DC 19.2 - 26.4 VAC/DC Inrush25A Running10A Varies as a function of line voltage and temperature but not of reset time a ±0.5% at constant temperature and voltage. (or ± 15 mSEC whichever is greater) b ± 1.5%* at constant temperature and full temperature range. (or ± 25 mSEC whichever is greater) c ± 1.5%* at constant temperature and full voltage range. (or ± 30 mSEC, whichever is greater) d ± 2%* over full voltage must be within 95 and 132V of temperature between -17° and 60°C | MINIMUM SETTING | | | |
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| retaining clips. OPTIONS: Surface mounting socket DIN rail mounting adapter kit Plug-on socket Rear facing terminal socket. POWER 120 VAC 95 - 132 VAC, 50/60Hz Inrush4A Running025 240 VAC 190 - 264 VAC, 50/60 Hz Inrush2A Running013A 24 VAC/DC 19.2 - 26.4 VAC/DC Inrush2A Running013A 24 VAC/DC 19.2 - 26.4 VAC/DC Inrush2A Running013A 24 VAC/DC 19.2 - 26.4 VAC/DC Inrush2A Running075A 12 VDC 9.6 - 13.2 VDC Inrush25A Running10A REPEAT ACCURACY Varies as a function of line voltage and temperature but not of reset time a ±0.5% at constant temperature and voltage. (or ±15 mSEC whichever is greater) b b ±1%* at constant temperature and full tovoltage range. (or ± 25 mSEC whichever is greater) c ±1.5%* at constant temperature and full voltage range. (or ± 25 mSEC whichever is greater) d ±2%* over full voltage must be within 95 and 132W. of temperature between -17° and 60°C (0° and 140°F RECYCLE The timer can be used as a pulse generator with L1 pow< | | 0° to 140 | °F (-17° to 60°C) | |
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| Inrush25A Running10A REPEAT ACCURACY Varies as a function of line voltage and temperature but not of reset timea±0.5% at constant temperature and voltage. (or ±15 mSEC whichever is greater)b±1%* at constant voltage and full temperature range. (or ± 25 mSEC whichever is greater)c± 1.5%* at constant temperature and full voltage range. (or ± 25 mSEC whichever is greater)d± 2%* over full voltage and temperature range. (or ± 30 mSEC, whichever is greater)d± 2%* over full voltage must be within 95 and 132V of temperature between -17° and 60°C (0° and 140°F RECYCLE O mSEC long. (40 mSEC typical pulse.)The timer can be used as a pulse generator with L1 pow wired though its NC contacts. The pulse will be 35 mSEC 90 mSEC long. (40 mSEC typical pulse.)a0 to 20 mSEC power interruption; Guaranteed no red ba0 to 20 mSEC power interruption; Guaranteed no red bb20 mSEC to 90 mSEC; it may reset. (40 mSEC typical c c 0 over 90 mSEC guaranteed to reset. The TDR will re properly and not start timing when subjected to an open start switch leakage of 1.5 mA or less. | | 240 VAC 24 VAC/D0 | Inrush4A Running025 190 - 264 VAC, 50/60 Hz Inrush2A Running013A C 19.2 - 26.4 VAC/DC Inrush4A Running075A | |
| a ±0.5% at constant temperature and voltage. (or ±15 mSEC whichever is greater) b ±1%* at constant voltage and full temperature range. (or ± 25 mSEC whichever is greater) c ±1.5%* at constant temperature and full voltage range. (or ± 25 mSEC whichever is greater) d ±2%* over full voltage and temperature range. (or ± 30 mSEC, whichever is greater) *Variations of line voltage must be within 95 and 132V, of temperature between -17° and 60°C (0° and 140°F RECYCLE The timer can be used as a pulse generator with L1 pow wired though its NC contacts. The pulse will be 35 mSEC 90 mSEC long. (40 mSEC typical pulse.) a 0 to 20 mSEC power interruption; Guaranteed no red b a 0 to 20 mSEC power interruption; Guaranteed no red b b 20 mSEC to 90 mSEC; it may reset. (40 mSEC typical c over 90 mSEC guaranteed to reset. The TDR will re properly and not start timing when subjected to an open start switch leakage of 1.5 mA or less. | REPEAT ACCURACY | Varies as | Inrush25A Running10A a function of line voltage and temperature | |
| (or ± 30 mSEC, whichever is greater) *Variations of line voltage must be within 95 and 132V, of temperature between -17° and 60°C (0° and 140°F RECYCLE The timer can be used as a pulse generator with L1 pow wired though its NC contacts. The pulse will be 35 mSEC 90 mSEC long. (40 mSEC typical pulse.) a 0 to 20 mSEC power interruption; Guaranteed no red be 20 mSEC to 90 mSEC; it may reset. (40 mSEC typical colspan="2">(40 mSEC typical pulse.) a 0 to 20 mSEC power interruption; Guaranteed no red be 20 mSEC to 90 mSEC; it may reset. (40 mSEC typical colspan="2">(40 mSEC typical pulse.) a 0 to 20 mSEC power interruption; Guaranteed no red be 20 mSEC to 90 mSEC; it may reset. (40 mSEC typical colspan="2">(40 mSEC typical pulse.) a 0 to 20 mSEC power interruption; Guaranteed no red be 20 mSEC to 90 mSEC; it may reset. (40 mSEC typical colspan="2">(40 mSEC typical pulse.) a 0 to 20 mSEC power interruption; Guaranteed no red be 20 mSEC to 90 mSEC; it may reset. (40 mSEC typical colspan="2">(40 mSEC typical pulse.) a 0 to 20 mSEC power interruption; Guaranteed no red be 20 mSEC guaranteed to reset. The TDR will red properly and not start timing when subjected to an open start switch leakage of 1.5 mA or less. | | a ±0.5 (or ± b ± 1% range c ± 1.5 range | % at constant temperature and voltage. 15 mSEC whichever is greater) 6* at constant voltage and full temperature 2. (or \pm 25 mSEC whichever is greater) 6%* at constant temperature and full voltage 2. (or \pm 25 mSEC whichever is greater) | |
| CHARACTERISTICS wired though its NC contacts. The pulse will be 35 mSEC 90 mSEC long. (40 mSEC typical pulse.) a 0 to 20 mSEC power interruption; Guaranteed no red b 20 mSEC to 90 mSEC; it may reset. (40 mSEC typical c Over 90 mSEC guaranteed to reset. The TDR will re properly and not start timing when subjected to an open start switch leakage of 1.5 mA or less. | | or ±) Variation* | 30 mSEC, whichever is greater) s of line voltage must be within 95 and 132V; | |
| | | wired thou 90 mSEC a 0 to 2 b 20 m c 0ver prope open | ugh its NC contacts. The pulse will be 35 mSEC long. (40 mSEC typical pulse.) 20 mSEC power interruption; Guaranteed no re SEC to 90 mSEC; it may reset. (40 mSEC typica 90 mSEC guaranteed to reset. The TDR will reserve and not start timing when subjected to an start switch leakage of 1.5 mA or less. | |

WEIGHT 2.5 oz. (70 g) **DIMENSIONS** (INCHES/MILLIMETERS)



339B Series

TIME DELAY RELAYS

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ATC Diversified Electronics:

<u>339B-200-E-2-X</u> <u>339B-200-Q-2-X</u> <u>339B-200-R-2-X</u> <u>339B-200-T-2-X</u> <u>339B-359-E-2-X</u> <u>339B-359-Q-2-X</u> <u>339B-359-R-2-X</u> <u>339B-359-T-2-X</u>