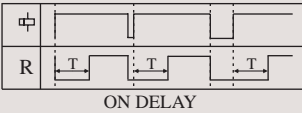
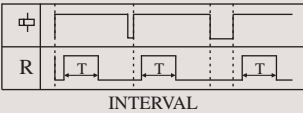
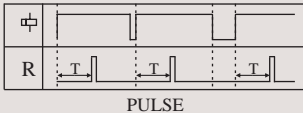



# Motor Control Timers

- Brown Out Timer with 3 Functions: ON Delay, Interval, Pulse
- Detects Voltage Dips and Momentary Loss of Supply & Resets the control panel
- Low Power Consumption
- Fast Response Time
- LED indications for Healthy & Unhealthy conditions
- Excellent Noise Immunity to the latest IEC standards



| Cat. No.                          | 23UDT0  |  | 27UDT0  |     |
|-----------------------------------|---|--|---|-----|
| <b>Parameters</b>                 |   |  |   |     |
| <b>Timer Description</b>          | <b>Brown Out Timer</b>  |  |   |     |
| <b>Modes</b>                      | ON Delay, Interval, Pulse   |  |   |     |
| <b>Functional Diagram</b>         |    |  |  |     |
| Supply Voltage ( $\phi$ )         | 110 VAC   |  | 240 VAC   |     |
| Supply Variation                  | - 40% to +10% (of $\phi$ )  |  | - 40% to +10% (of $\phi$ )  |     |
| Frequency                         | 50/60 Hz  |  | 50 Hz   |     |
| Power Consumption (Max.)          | 6 VA  |  | 10 VA   |     |
| Timing Range                      | 0.3s to 30s   |  | 0.3s to 30s   |     |
| Initiate Time                     | Max. 200 ms   |  | Max. 200 ms   |     |
| Trip Voltage                      | 81 V ( $\pm$ 6 V)   |  | 168 V ( $\pm$ 6 V)  |     |
| Recovery Voltage                  | 96 V ( $\pm$ 4 V)   |  | 184 V ( $\pm$ 4 V)  |     |
| Response Time                     | Voltage Interruptions   | 15 ms (Max.)   |   |     |
|                                   | Voltage Dips  | 30 ms (Max.)   |   |     |
| Setting Accuracy                  | $\pm$ 5% of Full scale  |  |   |     |
| Repeat Accuracy                   | $\pm$ 1%  |  |   |     |
| Output                            | Relay Output  | 1 C/O  |   |     |
|                                   | Contact Rating  | 5A @ 240 VAC / 28 VDC (Resistive)  |   |     |
|                                   | Electrical Life   | 1x10 <sup>5</sup>  |   |     |
|                                   | Mechanical Life   | 1x10 <sup>7</sup>  |   |     |
| Utilization Category              | AC - 15   | Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A                       |   |     |
|                                   | DC - 13   | Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A               |   |     |
| Operating Temperature             | -10°C to +55°C  |  |   |     |
| Storage Temperature               | -10°C to +60°C  |  |   |     |
| Humidity (Non Condensing)         | 95% (Rh)  |  |   |     |
| LED Indication                    | Healthy Condition: Flashing, Unhealthy Condition: Blinking                          |  |   |     |
|                                   | Colour  | Amber  |   | Red |
| Enclosure                         | Flame Retardant UL94-V0   |  |   |     |
| Dimension (W x H x D) (in mm)     | 22.5 X 75 X 100.5   |  |   |     |
| Weight (unpacked)                 | 130 g   |  |   |     |
| Mounting                          | Base / DIN rail   |  |   |     |
| Certification                     |  |  |   |     |
| Degree of Protection              | IP 20 for Terminals, IP 40 for Enclosure  |  |   |     |
| <b>EMI / EMC</b>                  |   |  |   |     |
| Harmonic Current Emissions        | IEC 61000-3-2   | Ed. 3.0 (2005-11) Class A  |   |     |
| ESD                               | IEC 61000-4-2   | Ed. 1.2 (2001-04) Level II   |   |     |
| Radiated Susceptibility           | IEC 61000-4-3   | Ed. 3.0 (2006-02) Level III  |   |     |
| Electrical Fast Transients        | IEC 61000-4-4   | Ed. 2.0 (2004-07) Level IV   |   |     |
| Surges                            | IEC 61000-4-5   | Ed. 2.0 (2005-11) Level IV   |   |     |
| Conducted Susceptibility          | IEC 61000-4-6   | Ed. 2.2 (2006-05) Level III  |   |     |
| Voltage Dips & Interruptions (AC) | IEC 61000-4-11  | Ed. 2.0 (2004-03) Performance Criteria B   |   |     |
| Conducted Emission                | CISPR 14-1  | Ed. 5.0 (2005-11) Class A  |   |     |
| Radiated Emission                 | CISPR 14-1  | Ed. 5.0 (2005-11) Class A  |   |     |
| <b>Environmental</b>              |   |  |   |     |
| Cold Heat                         | IEC 60068-2-1   | Ed. 6.0 (2007-03)  |   |     |
| Dry Heat                          | IEC 60068-2-2   | Ed. 5.0 (2007-07)  |   |     |
| Vibration                         | IEC 60068-2-6   | Ed. 7.0 (2007-12) 5g   |   |     |
| Repetitive Shock                  | IEC 60068-2-27  | Ed. 4.0 (2008-02) 40g, 6ms   |   |     |
| Non-Repetitive Shock              | IEC 60068-2-27  | Ed. 4.0 (2008-02) 30g, 15ms  |   |     |

## ORDERING INFORMATION

| Cat. No. | Description                     |
|----------|---------------------------------|
| 23UDT0   | 110 VAC, Brown Out Timer, 1 C/O |
| 27UDT0   | 240 VAC, Brown Out Timer, 1 C/O |