

# Motor Control Timers



| Cat. No.                      | 23UDT0  | 27UDT0   |  |
|-------------------------------|---|--|--|
| <b>Parameters</b>             |   |  |  |
| Timer Description             | <b>Brown Out Timer</b>  |  |  |
| Modes                         | ON Delay, Interval, Pulse   |  |  |
| Functional Diagram            | <p style="text-align: center;">ON DELAY</p>                                   | <p style="text-align: center;">INTERVAL</p>                          | <p style="text-align: center;">PULSE</p> |
| Supply Voltage (ϕ)            | 110 VAC   | 240 VAC  |  |
| Supply Variation              | - 40% to +10% (of ϕ)  |  |  |
| Frequency                     | 50/60 Hz  | 50 Hz  |  |
| Power Consumption (Max.)      | 2 VA  | 4 VA   |  |
| Timing Range                  | 0.3s to 30s   |  |  |
| Initiate Time                 | Max. 200 ms   |  |  |
| Trip Voltage                  | 81 V (± 6 V)  | 168 V (± 6 V)  |  |
| Recovery Voltage              | 96 V (± 4 V)  | 184 V (± 4 V)  |  |
| Response Time                 | 15 ms (Max.)  |  |  |
| Voltage Interruptions         | 30 ms (Max.)  |  |  |
| Voltage Dips                  |   |  |  |
| Setting Accuracy              | ± 5% of Full scale  |  |  |
| Repeat Accuracy               | ± 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): 240/125 VAC, Rated Current (Ie): 1.3/2.5 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)     | 80%   |  |  |
| LED Indication                | Healthy Condition: Green LED On, Unhealthy Condition: Green LED Flashing slow |  |  |
|                               | 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                                      |  |  |

## EMI / EMC

|                                   |                |
|-----------------------------------|----------------|
| Harmonic Current Emissions        | IEC 61000-3-2  |
| ESD                               | IEC 61000-4-2  |
| Radiated Susceptibility           | IEC 61000-4-3  |
| Electrical Fast Transients        | IEC 61000-4-4  |
| Surges                            | IEC 61000-4-5  |
| Conducted Susceptibility          | IEC 61000-4-6  |
| Voltage Dips & Interruptions (AC) | IEC 61000-4-11 |
| Conducted Emission                | CISPR 14-1     |
| Radiated Emission                 | CISPR 14-1     |

## Environmental

|                      |                |
|----------------------|----------------|
| Cold Heat            | IEC 60068-2-1  |
| Dry Heat             | IEC 60068-2-2  |
| Vibration            | IEC 60068-2-6  |
| Repetitive Shock     | IEC 60068-2-27 |
| Non-Repetitive Shock | IEC 60068-2-27 |