## **Motor Control Timers**

- Compact 17.5mm wide
- Brown Out Timer with many functional options
- Detects Voltage Dips and Momentary Loss of Supply & Resets the control panel
- Low Power Consumption
- Fast Response Time
- Excellent Noise Immunity to the latest IEC standards



### **Ordering Information**

Cat. No.	Description
17UDT0	230 VAC, Brown Out Timer (ON Delay), 1 C/O
17UDT1	230 VAC, Brown Out Timer (Interval), 1 C/O
13UDT0	110 VAC, Brown Out Timer (ON Delay), 1 C/O
13UDT1	110 VAC, Brown Out Timer (Interval), 1 C/O
1FUDT0F	110 VAC, Brown Out Timer (Normally Energized / ON Delay Mode), Fast Response (5 msec max), 1C/O
1FUDT1F	110 VAC, Brown Out Timer (Momentary / Pulse Mode), Fast Response (5 msec max), 1C/O
1FUDT2F	110 VAC, Brown Out Timer (Normally De-energized / Pulse Mode), Fast Response (5 msec max), 1C/O

# **Motor Control Timers**



Cat. No.			17UDT0	13UDT1	
Parame	eters				
Timer Description			Brown Out	Timer	
Modes			ON Delay	Interval	
Functional Diagram			R T T	中 R L T L T	
Supply	Voltage (中)		230 VAC	110 VAC	
Supply	Variation		-30% to +10%		
Freque	ncy		50 Hz	60 Hz	
Power Consumption (Max.)		(Max.)	10 VA	1	
Timing	Range		0.3s to 30s		
Initiate Time			Max. 100 ms		
Trip Vo	Itage		168 V (± 5 V)	82 V (± 5 V)	
Recovery Voltage			Trip Voltage + 14 V (± 5 V)	Trip Voltage + 14 V (± 5 V)	
Response Time			25 ms (Max.) (Voltage Dips & Interruptions)		
Setting Accuracy Repeat Accuracy			± 10% @ 30s & ± 20% @ 0.3s ± 1%		
	Relay Outpu	t	1 C/O		
Output	Contact Rating		5A @ 240 VAC / 28 VDC (Resistive)		
Output	Electrical Life		1x10 <sup>5</sup>		
	Mechanical Life		1x10 <sup>7</sup>		
Utilizati	on Category	AC - 15 DC - 13	Rated Voltage (Ue): 120/240 V, Rated Current (le): 3. Rated Voltage (Ue): 24/125/250 V, Rated Current (le)		
Operating Temperature Storage Temperature			-10°C to +55°C -15°C to +60°C		
Humidity (Non Condensing)		nsing)	80% (Rh)		
LED Inc	dication	Green	Healthy		
LLD III	ulcation	Red	Relay ON		
Enclosure			Flame Retardant UL94-V0		
Dimension (W x H x D) (in mm)		D) (in mm)	17.5 X 58.5 X 90		
Weight (unpacked)			70 g		
Mounting			Base / DIN rail		
Certification			CE Rolls Comptiant		
Degree	of Protection		IP 20 for Terminals, IP 40 for Enclosure		

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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

#### **BROWN OUT**

A dip in voltage causes electro-mechanical devices such as relays and contactors to drop out and electronic devices such as Timers, Programmable Relays, PLC's remain energized. As a result of this the switch sequence of the panel is lost. This can lock out all or a part of the control system causing the entire system to malfunction.

#### **BROWN OUT TIMER**

The 'Brown-Out' Timer also known as 'Mains restoration auto restart timer' is used for detection of voltage dips or momentary loss of supply known as 'Brown out' and initiation of a control panel reset following the Brown out.