Motor Control Timers

- Single phase Motor Restart Control Timer with Memory Time
- Under Voltage Trip and ON Delay



Ordering Information

Cat. No.	Description
22LDT0	240 VAC, Motor Restart Control Timer, 1 C/O
23LDT0	110 VAC, Motor Restart Control Timer, 1 C/O

UL Approval not applicable for Cat No. 23LDT0

Motor Control Timers



Cat. No.			22LDT0	23LDT0		
Param						
	Description		Motor Restart Control Timer			
Functional Diagram			STOP START R t: Power Fail Time; Td: Delay	t > Tm		
Supply	Voltage (中)		240 VAC	110 VAC		
	Variation		- 20% to +10% (of 中)	110 4/10		
Freque			50/60 Hz			
	Consumption ((May)	4 VA			
	Ranges	(IVIAA.)				
Trip Vo			Memory Time (Tm): 0.2 to 6s, Delay Time (Td): 0.2 to 60s 176 VAC, (± 6VAC) 80 VAC, (± 6VAC)			
			4 VAC to 10 VAC	ou vac, (± ovac)		
Hysteri Reset 1			200 ms (Max.)			
			, ,			
	Accuracy Accuracy		± 5% of Full scale ± 1%			
	Relay Outpu		1 C/O			
Output	Contact Rati		5A @ 240 VAC / 28 VDC (Resistive)			
output	Electrical Life	e	1x10 ⁵			
	Mechanical I	Life	1x10 ⁷			
Jtilizati	ion Category	AC - 15 DC - 13	Rated Voltage (Ue): 120/240 V, Rated Current (Ie): 3.0/1.5 A Rated Voltage (Ue): 24/125/250 V, Rated Current (Ie): 2.0/0.22/0.1 A			
	ing Temperatu e Temperature		-15°C to +60°C			
			-20°C to +70°C			
Humidity (Non Condensing) LED Indication		ensing)	95% (Rh)			
			Green LED → Power ON, Red LED → Relay ON			
Enclos		5 / / · · ·	Flame Retardant UL94-V0			
	sion (W x H x [(In mm) (ע	22.5 X 75 X 100.5			
	(unpacked)		130 g			
Mounting			Base / DIN Rail			
Certification			C Compliant			
Degree	of Protection		IP 20 for Terminals, IP 40 for Enclosure			
EMI / EMC Harmonic Current Emissions ESD Radiated Susceptibility Electrical Fast Transients Surges Conducted Susceptibility Voltage Dips & Interruptions (AC) Conducted Emission Radiated Emission		ty ents ility	IEC 61000-3-2 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-11 CISPR 14-1			
Environmental Cold Heat Dry Heat Vibration Repetitive Shock			IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-6			

Repetitive Shock

Non-Repetitive Shock

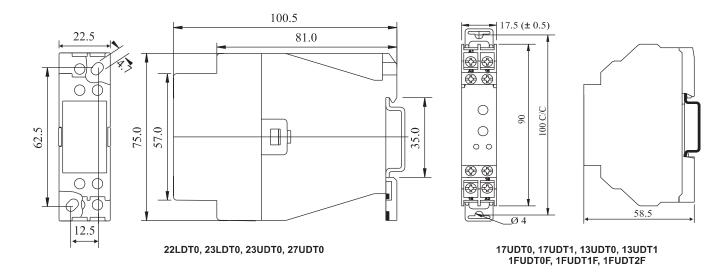
The timer is used for instantaneous or delayed motor startup after a short-time power failure (max. 6 sec). The start occurs immediately if power supply is disrupted for less than 0.2 sec. If the power failure lasts longer, the relay activates its memory for a time that can be set to 0.2 to 6 sec, after which no automatic restart is possible. If power supply is restored while the memory period is elapsing, the relay commands a motor restart with a delay time from power supply restoration that can be set to 0.2 to 60 sec. A system stop cancels the memory function after 50 ms, and therefore the stop signal should be on for at least this time. The relay is non-sensitive to any control voltage fluctuation or disruption during or after the motor stop.

IEC 60068-2-27

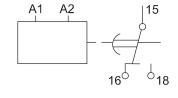
IEC 60068-2-27

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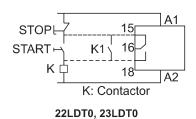
MOUNTING DIMENSION (mm)



CONNECTION DIAGRAM



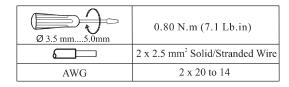
13UDT0, 17UDT0, 13UDT1, 17UDT1 23UDT0, 27UDT0



TERMINAL TORQUE & TERMINAL CAPACITY

Ø 3.5 mm4.0mm	0.60 N.m (6 Lb.in)	
	1 x 4.0 mm ² Solid/Stranded Wire	
AWG	1 x 20 to 10	

22LDT0, 23LDT0, 23UDT0, 27UDT0



13UDT0, 17UDT0, 13UDT1, 17UDT1