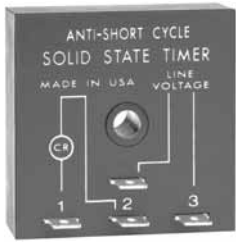


Lockout Timer

TL Series

HVAC/R Timer

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10 YEAR WARRANTY

- Lockout Delay--Prevents Short Cycling of a Compressor
- Optional 1 s Delay On Make Prevents Contactor Chatter
- Totally Solid State and Encapsulated
- 24 V AC ... 230 V AC in 3 Ranges
- Eliminates Nuisance Service Calls Due to Blown Fuse or Tripped Breakers

Approvals:

Accessories



Female quick connect
P/N:
P1015-64 (AWG 14/16)



Quick connect to screw adaptor
P/N: **P1015-18**



Mounting bracket
P/N: **P1023-6**



DIN rail P/Ns:
017322005 (Steel)
C103PM (Al)

DIN rail adaptor
P/N: **P1023-20**

See accessory pages for specifications.

Description

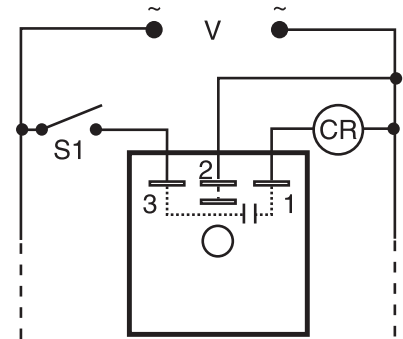
The TL Series provides protection against short cycling of a compressor. At the end of each operation, or whenever power is lost, a lockout delay is initiated. This lockout delay prevents restarting of the compressor until the head pressure has equalized. Compressor relay chatter due to thermostat bounce is eliminated by use of optional one second delay on make. The TL Series should not be used with cooling anticipator resistors or solid state switches. (See the TA Series).

Operation

Lockout: On initial closure of S1, the compressor relay energizes immediately (or after an optional 1 s delay). When the S1 opens or input voltage is interrupted, the output opens and remains open for the lockout time delay. During this lockout time delay period, the compressor relay cannot be re-energized.

Reset: The lockout time delay cannot be reset. After the time delay is completed, the unit automatically resets.

Connection



V = Voltage S1 = Initiate Switch
CR = Compressor or Control Relay

Ordering Table

TL Series	X Input	X Lockout Time	X Delay On Make
	- 24 A - 24 V AC	- 2 m	(Blank) No delay
	- 120 A - 120 V AC	- 3 m	- T - 1 s
	- 230 A - 230 V AC	- 5 m	

Example P/N: **TL24A2T, TL120A5**

Lockout Timer

TL Series

HVAC/R Timer

Technical Data

Input Voltage Tolerance	24, 120, or 230 V AC, 50 ... 60 Hz +/-20%
Output Minimum Load Current Maximum Load Current Inrush Current Voltage Drop	≤ 40 mA 1 A at 24 V AC; 0.5 A at 120 & 230 V AC at 60°C 10 A at 60°C 24 V AC-- 2.5 V at 1 A 120 & 230 V AC -- 4.2 V at 0.5 A
Time Delay Initiate Time Lockout Time* Tolerance Option	$\cong 8$ ms Fixed 2, 3, or 5 m -15% ... +35% 1 s Delay on make eliminates contactor chatter due to thermostat bounce
Protection Circuitry Dielectric Breakdown Insulation Resistance	Encapsulated ≥ 2000 V RMS terminals to mounting surface ≥ 100 M Ω
Mechanical Mounting Package Termination	Surface mount with one #10 (M5 x 0.8) screw 2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm) 0.25 in. (6.35 mm) male quick connect terminals
Environmental Operating Temperature Storage Temperature Humidity Weight	-40°C ... +70°C -40°C ... +85°C 95% relative, non-condensing $\cong 2.4$ oz (68 g)

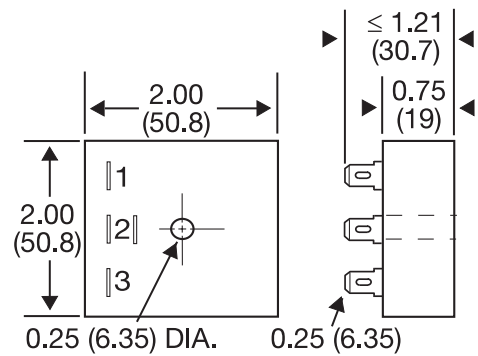
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*Power must be applied for at least 15 s to achieve a full lockout delay.

Less than 15 s will result in proportionally shorter delay periods.

NOTE: Cooling anticipator resistor or leakage may cause erratic operation. See TA Series for use with 24 V AC systems that include anticipator resistors or use solid state switches.

Mechanical View



Inches (Millimeters)