



# RELAYS & CONTACTORS

## LOCKOUT DELAY TIMER

**T2D, TA, CT SERIES**

### DESCRIPTION

The **TA Series** is a short cycling timer lockout which prevents rapid recycling of a compressor. The lockout delay is started when the thermostat opens, or input voltage is lost. This eliminates tripped circuit breakers or blown fuses caused by a locked rotor during short cycling. The TA will not allow the compressor to start when the line voltage is low. A 30 second delay provides anti-reversing protection for scroll compressors. The **T2D** is similar in function to the TA but is considered a short cycling protector for compressors. The T2D adds a 2-in-1 timer function with the delay on make option. The T2D can be used on thermostats that include a cooling anticipator. The **CT Series** combines a delay-on-make and delay-on-break time delay into one unit and may be used to control fan delays in heating and/or cooling equipment.

**NEW!**



**CT1S30**



**T2D120A15M**



**TA24A3**

### FEATURES

- Lockout delay prevents rapid recycling of compressor
- Low voltage brownout protection
- Circuitry to activate the cooling anticipator (24VAC models)



### COMMON SPECIFICATIONS

#### Operating Temperature

**TA / CT Series** -40° to 140°F (-40° to 60°C)

**T2D Series** -4° to 140°F (-20° to 60°C)

**Storage Temperature** -40° to 185°F (-40° to 85°C)

**Operating Humidity** 95% RH non-condensing

**Terminations** 0.25 in. (6.35 mm) male quick connect terminals

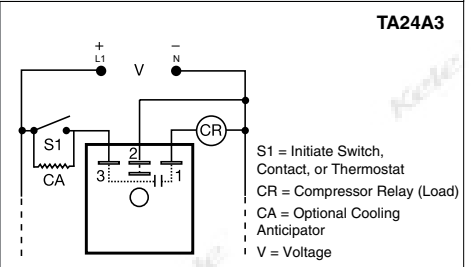
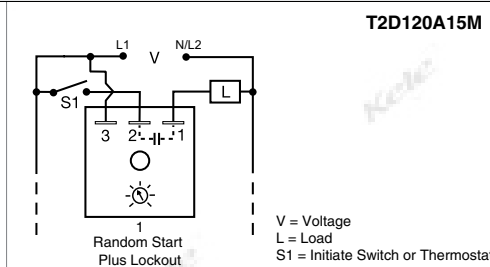
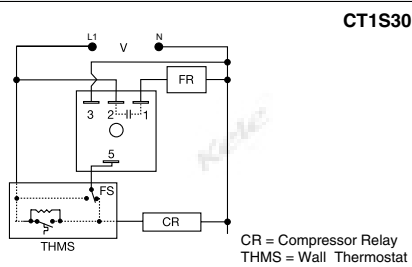
#### Mounting Dimensions

Surface mount with one #10 screw  
2"W x 2"H x 1.21"D  
(5.08 x 5.08 x 3.07cm)

#### Approvals Warranty

CE, CSA, UR File #E57310  
10 years

### WIRING



### ORDERING INFORMATION

INDIVIDUAL SPECIFICATIONS	CT1S30	T2D120A15M	TA24A3 / TA24A5
<b>Function</b>	DOM & DOB	Lockout	Lockout
<b>Supply Voltage</b>	24 VAC	120/230 VAC in 2 ranges	24 VAC
<b>Output Type</b>	Solid State	Solid State	Solid State
<b>Output Form</b>	NO	NO	NO
<b>Output Rating</b>	0.75A steady state, 5A inrush @ 55°C	1A steady state, 10A inrush @ 60°C	75mA, 1A @ 60°C
<b>Timing Range</b>	DOM = 1 sec, DOB = 30 sec	After timing $\tau$ = 16 ms	After timing $\tau$ = 16 ms
<b>Lockout Time</b>	-	5 minutes, fixed	A3 = 3 mins fixed; A5 = 5 mins fixed
<b>Repeat Accuracy</b>	$\pm$ 5%	$\pm$ 1% or 20ms, whichever is greater	-
<b>Timing Tolerance</b>	$\pm$ 20%	$\pm$ 30%	-15% to 35%
<b>Circuitry Protection</b>	Encapsulated	Encapsulated	Encapsulated
<b>Insulation Resistance</b>	$\geq$ 100 M $\Omega$	$\geq$ 100 M $\Omega$	$\geq$ 100 M $\Omega$
<b>Voltage Drop</b>	$\tau$ = 1.25V	$\tau$ = 2.5V @ 1A	$\tau$ = 1.25V
<b>Weight</b>	0.15lb (0.07kg)	0.15lb (0.07kg)	0.15lb (0.07kg)