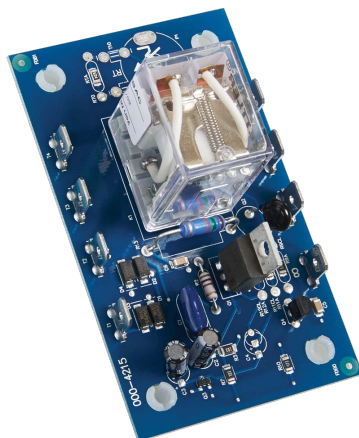
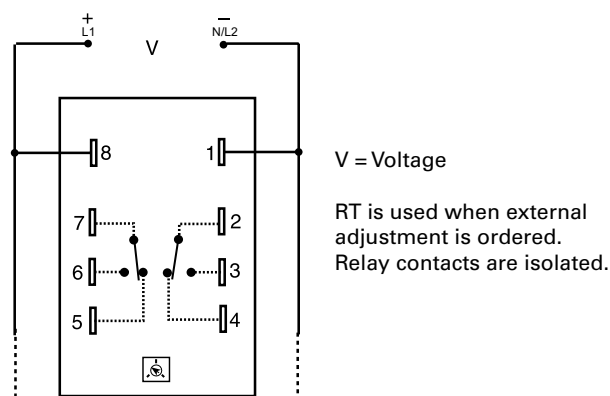


## ORM SERIES



### Wiring Diagram



### Description

The ORM Series features open PC board construction for reduced cost. It has isolated, 10A, DPDT relay contacts and all connections are 0.25 in (6.35 mm) male quick connect terminals. The time delay may be ordered as factory fixed, onboard knob, or external adjustment. Time delays from 0.05 - 300 seconds.

#### Operation (Delay-on-Make)

Upon application of input voltage, the time delay begins. The output is de-energized before and during the time delay. At the end of the time delay, the output energizes and remains energized until voltage is removed.

**Reset:** Removing input voltage resets the time delay and output.

### Features & Benefits

FEATURES	BENEFITS
<b>Analog circuitry with electromechanical relay</b>	Repeat Accuracy + / - 2%
<b>Isolated 10A, DPDT output contacts</b>	Allows control of loads for AC or DC voltages
<b>Open PCB construction</b>	Reduces cost for OEM applications

### Accessories



#### P1004-12, P1004-12-X Versa-Pot

Panel mountable, industrial potentiometer recommended for remote time delay adjustment.



#### P0700-7 Versa-Knob

Designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.



#### P1015-64 (AWG 14/16)

##### Female Quick Connect

These 0.25 in. (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.



#### P1015-18 Quick Connect to Screw Adapter

Screw adapter terminal designed for use with all modules with 0.25 in. (6.35 mm) male quick connect terminals.

### Ordering Information

MODEL	INPUT VOLTAGE	ADJUSTMENT	TIME DELAY
ORM120A17	120VAC	Fixed	7s
ORM120A25	120VAC	Onboard knob	3 - 300s
ORM230A17	230VAC	Fixed	7s
ORM24D13.5	24VDC/28VDC	Fixed	3.5s
ORM24D22	24VDC	Onboard knob	0.5 - 30s

## ORM SERIES

### Specifications

#### Time Delay

<b>Type</b>	Analog circuitry
<b>Range</b>	0.05 - 300s in 5 adjustable ranges or fixed
<b>Repeat Accuracy</b>	±2% or 20ms, whichever is greater
<b>Tolerance</b>	Adjustable: guaranteed range Fixed: ±10%
<b>Recycle Time</b>	After timing - ≤ 16ms; During timing - 0.1% of max. time delay or 75ms, whichever is greater

#### Time Delay vs Temp. & Voltage

≤ ±10%

#### Input

<b>Voltage</b>	24 or 110VDC; 24, 120, or 230VAC
<b>Tolerance</b>	
<b>24VDC/AC</b>	-15% - 20%
<b>110 to 230VAC/DC</b>	-20% - 10%
<b>AC Line Frequency</b>	50/60 Hz
<b>Power Consumption</b>	2.25W

#### Output

<b>Type</b>	Electromechanical relay
<b>Form</b>	DPDT, Isolated
<b>Rating</b>	10A resistive @ 120/240VAC & 28VDC; 1/3 hp @ 120/240VAC
<b>Life</b>	Mechanical - 1x10 <sup>7</sup> ; Electrical - 1x10 <sup>6</sup>

#### Protection

<b>Polarity</b>	DC units are reverse polarity protected
<b>Isolation Voltage</b>	≥1500V RMS input to output

#### Mechanical

<b>Mounting</b>	Surface mount with four #6 (M3.5 x 0.6) screws
<b>Dimensions</b>	<b>H</b> 53.8 mm (2.12"); <b>W</b> 93.7 mm (3.69"); <b>D</b> 47.8 mm (1.88")
<b>Termination</b>	0.25 in. (6.35 mm) male quick connect terminals

#### Environmental

<b>Operating/Storage Temperature</b>	-20° to 65°C / -30° to 85°C
<b>Weight</b>	≈ 2.7 oz (77 g)

### Selection Guide

R <sub>T</sub> Selection Chart					
Desired Time Delay*					R <sub>T</sub> Megohm
Seconds					
1	2	3	4	5	
0.05	0.5	0.6	1.2	3.0	0.0
0.5	5.0	10	20	50	0.5
1.0	10	20	40	100	1.0
1.5	15	30	60	150	1.5
2.0	20	40	80	200	2.0
2.5	25	50	100	250	2.5
3.0	30	60	120	300	3.0

\* When selecting an external R<sub>T</sub> add at least 20% for tolerance of unit and the R<sub>T</sub>.

### Function Diagram

