

# RELAYS & CONTACTORS



## DELAY-ON-MAKE TIMING RELAYS TMV8000, KRDM, KRPS SERIES



### DESCRIPTION

The SSAC TMV8000, KRDM and KRPS Series Delay-on-Make timers cover all the popular voltages and time delays. These are a cost effective approach for applications that require small size, isolation, reliability and long life. Encapsulation protects against shock, vibration and humidity.

### FEATURES

- Onboard adjust time delay
- Compact 2" x 2" size
- Adjustable timing ranges



TMV8000



KRPSA2M



KRDM421



### COMMON SPECIFICATIONS

<b>Operating Temperature</b> TMV8000 -4° to 158°F (-20° to 70°C) KRPS -40° to 140°F (-40° to 60°C) KRDM -4° to 140°F (-20° to 60°C) <b>Storage Temperature</b> TMV8000 -22° to 185°F (-30° to 85°C) KRPS/KRDM -40° to 185°F (-40° to 85°C)	<b>Operating Humidity</b> 95% RH non-condensing <b>Power Consumption</b> ≤ 2VA for AC; ≤ 2W for DC <b>Mounting</b> Surface mount with one #10 screw <b>Dimensions</b> 2"W x 2"H x 1.21"D (5.08 x 5.08 x 3.07 cm) <b>Approvals</b> CE, CSA, UR File #E57310 <b>Warranty</b> 10 years
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### WIRING

**TMV8000**

Load may be connected to terminal 3 or 1. TMV8000 has knob adjustment.

**KRPS Series**

V = Voltage  
 C = Common, Transfer Contact  
 NC = Normally Closed  
 NO = Normally Open  
 S1 = Initiate Switch  
 UTL = Untimed Load

A knob is supplied for adjustable units.  
 The untimed load is optional. S1 is not used for some functions.

**KRDM Series**

V = Voltage  
 C = Common, Transfer Contact  
 NO = Normally Open  
 NC = Normally Closed

A knob is supplied for adjustable units.  
 Relay contacts are isolated.

### INDIVIDUAL SPECIFICATIONS

	TMV8000	KRPS Series	KRDM Series
<b>Supply Voltage</b>	24-240 VAC/DC, 50/60 Hz	12-240 VDC, 24-240 VAC, 50/60 Hz	12-24 VDC, 24-120 VAC, 50/60 Hz
<b>Output Type</b>	Solid State	Isolated Relay Contacts	Isolated Relay Contacts
<b>Output Form</b>	NO, open during timing	SPDT	SPDT
<b>Output Rating (@ 40°C)</b>	1A steady state, 10A inrush @ 55°C	10A @ 125VAC; 5A @ 230VAC & 28 VDC; 1/4 hp @ 125VAC	10A @ 125VAC; 5A @ 230VAC & 28VDC; 1/4 hp @ 125VAC
<b>Timing Range</b>	0.1 to 8 mins adjustable	0.1s to 1000 hours	0.1s to 100 mins adjustable
<b>Repeat Accuracy</b>	±2%	±0.5% or 20ms, whichever is greater	±0.5% or 20ms, whichever is greater
<b>Timing Tolerance</b>	≤ ± 10%	≤ ± 2%	≤ ± 5%
<b>Reset Time</b>	≤ 100ms	≤ 150ms	≤ 150ms
<b>Circuitry Protection</b>	Encapsulated	Encapsulated	Encapsulated
<b>Isolation Voltage</b>	≥ 2000V RMS terminals to mounting surface	≥ 1500V RMS input to output	≥ 1500V RMS input to output
<b>Insulation Resistance</b>	≥ 100 MΩ	≥ 100 MΩ	≥ 100 MΩ
<b>Termination</b>	.25 in. (6.35mm) male quick connect terminals	.25 in. (6.35mm) male quick connect terminals	.25 in. (6.35mm) male quick connect terminals
<b>Weight</b>	0.15 lb (0.07Kg)	0.16 lb (0.08Kg)	0.16 lb (0.08Kg)



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## DELAY-ON-MAKE TIMING RELAYS

**TMV8000, KRDM, KRPS SERIES**

### ORDERING INFORMATION

MODEL	DESCRIPTION
<b>KRDM</b>	Compact delay on make timer
<b>INPUT VOLTAGE RANGE</b>	
<b>1</b>	12 VDC
<b>2</b>	24 VAC
<b>3</b>	24 VDC
<b>4</b>	120 VAC
<b>ADJUSTMENT</b>	
<b>2</b>	Onboard adjustment knob
<b>TIME DELAY/RANGE</b>	
<b>0</b>	.1 to 10 seconds
<b>1</b>	1 to 100 seconds
<b>2</b>	10 to 1000 seconds
<b>3</b>	.1 to 10 minutes
<b>4</b>	1 to 100 minutes

**KRDM** - **2** - **2** - **1** **Example: KRDM221**  
Compact delay on make timer, 24 VAC w/ adjustment knob, .1 to 10 seconds

MODEL	DESCRIPTION
<b>KRPS</b>	Adjustable delay on make timer
<b>INPUT VOLTAGE RANGE</b>	
<b>A</b>	24 to 240 VAC
<b>D</b>	12 to 48 VDC
<b>ADJUSTMENT</b>	
<b>2</b>	Onboard adjustment knob
<b>TIME DELAY/RANGE</b>	
<b>1M</b>	.1 to 10 seconds
<b>2M</b>	1 to 100 seconds
<b>3M</b>	10 to 1000 seconds
<b>4M</b>	.1 to 10 minutes
<b>5M</b>	1 to 100 minutes
<b>6M</b>	10 to 1000 minutes
<b>7M</b>	.1 to 10 hours
<b>8M</b>	1 to 100 hours
<b>9M</b>	10 to 1000 hours

**KRPS** - **D** - **2** - **2M** **Example: KRPSD22M**  
Adjustable delay on make timing relay, 12 to 48 VDC w/ adjustment knob for 1 to 100 seconds

MODEL	DESCRIPTION
<b>TMV8000</b>	TMV8000 delay on make timing relay, 24-240VAC/VDC, 1A solid state, adjustable 0.1-8 minutes