



Small 4PDT

Medium 24PDT

#### **Features**

- · AC and DC coils, latching and non-latching.
- · 4PDT through 24PDT contact arrangements.
- Contacts will not chatter when relays are subjected to high-impact shock blows of 2000 ft.-lbs.

#### **Contact Data**

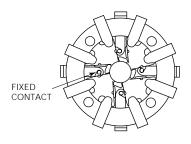
Arrangements: 4 Form C (4PDT) through 24 Form C (24PDT).

#### **Contact Ratings**

Single Contacts	Two Contacts in Series		
10A, 115VAC 3A, 28VDC	3A, 440VAC 15A, 115VAC		
0.8A, 125VDC	1.5A, 125VDC		

The above AC contact ratings are based on contact loads having a 50% power factor. The DC contact ratings are based on resistive loads.

#### **Contact Section**



# MDR series

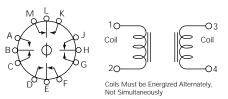
# 10 Amp Rotary Relay For Demanding Shock & Vibration Applications

## Operate Data @ 25°C

Туре	Typ. Operate Time (ms)	Typ. Release Time (ms)
Small AC Non-Latching	5 to 12	5 to 18
Small DC Non-Latching	15 to 30	5 to 15
Small AC Latching	6 to 12	N/A
Small DC Latching	10 to 16	N/A
Medium AC Non-Latching	6 to 12	6 to 20
Medium DC Non-Latching	65 to 90	10 to 30
Medium AC Latching	8 to 14	N/A
Medium DC Latching	30 to 80	N/A

**Latching Two-Position Types:** Except for the latching feature, MDR latching relays utilize the same general construction as non-latching types. They have two sets of coils and provide a latching two-position operation.

Contacts Shown With Coil 1-2 De-Energized and Coil 3-4 Energized.



#### **Environmental Data**

Temperature Range: Standard models: 0°C to +65°C.

Special order models: 0°C to +90°C.

#### Mechanical Data

Termination: #5-40 screw terminals supplied.

Weight (Approx.):

**Small** – 4 & 8PDT: 32 oz. (0.914 kg); 12PDT: 33 oz. (0.943 kg). **Medium** – 16PDT: 72 oz. (2.04 kg); 24PDT: 74 oz. (2.10 kg).

### Ordering Information and Coil Characteristics - No models in this series are maintained in stock.

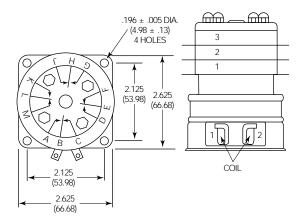
Туре	Part Number	Contacts	Coil Voltage (60 Hz. for AC)	Coil Current (Amps)	DC Coil Resistance (Ohms)	Coil Power* (Watts)	Breakdown (Volts RMS)
Small	MDR-131-1	4PDT	115VAC	0.215	66	6.5	1,230
Non -	MDR-131-2	4PDT	440VAC	0.045	1,256	5.1	1,880
Latching	MDR-135-1	4PDT	28VDC	0.362	76	10.0	1,308
•	MDR-137-8	4PDT	125VDC	0.082	1,520	10.3	2,375
	MDR-134-1	8PDT	115VAC	0.215	66	6.5	1,230
	MDR-134-2	8PDT	440VAC	0.045	1,256	5.1	1,880
	MDR-136-1	8PDT	28VDC	0.362	76	10.0	1,308
	MDR-138-8	8PDT	125VDC	0.082	1,520	10.3	2,375
	MDR-163-1	12PDT	115VAC	0.230	62	6.9	1,230
	MDR-163-2	12PDT	440VAC	0.055	940	6.3	1,880
Medium	MDR-170-1	16PDT	115VAC	0.620	8.4	17.0	1,230
Non -	MDR-170-2	16PDT	440VAC	0.160	107	17.0	1,880
Latching	MDR-172-1	16PDT	28VDC	0.667	42	18.7	1,308
•	MDR-173-1	16PDT	125VDC	0.125	1,024	16.0	2,375
	MDR-141-1	24PDT	115VAC	0.620	8.4	17.0	1,230
	MDR-141-2	24PDT	440VAC	0.160	107	17.0	1,880
	MDR-167-1	24PDT	28VDC	0.667	42	18.7	1,308
	MDR-142-1	24PDT	125VDC	0.125	1,024	16.0	2,375
Small	MDR-67-2	4PDT	115VAC	0.150	210	5.5	1,230
Latching	MDR-4091	4PDT	440VAC	0.020	4,500	3.0	1,880
3	MDR-67-3	4PDT	28VDC	0.778	36	21.8	1,308
	MDR-5060	4PDT	125VDC	0.164	760	20.6	2,375
	MDR-4076	8PDT	115VAC	0.150	210	5.5	1,230
	MDR-4092	8PDT	440VAC	0.020	4,500	3.0	1,880
	MDR-5035	8PDT	28VDC	0.778	36	21.8	1,308
	MDR-5061	8PDT	125VDC	0.164	760	20.6	2,375
Medium	MDR-6064	12PDT	115VAC	0.380	24	12.0	1,230
Latching	MDR-6065	12PDT	440VAC	0.055	540	5.7	1,880
	MDR-7020	12PDT	28VDC	0.316	88.6	8.8	1,308
	MDR-7035	12PDT	125VDC	0.083	1,500	10.4	2,375
	MDR-66-4	16PDT	115VAC	0.380	24	12.0	1,230
	MDR-6066	16PDT	440VAC	0.055	540	5.7	1,880
	MDR-7025	16PDT	28VDC	0.316	88.6	8.8	1,308
	MDR-7036	16PDT	125VDC	0.083	1,500	10.4	2,375

<sup>\*</sup> Actual Wattmeter readings

# **Outline Dimensions**

Tolerances: Decimals ± .010 (± .25) Unless Otherwise Specified

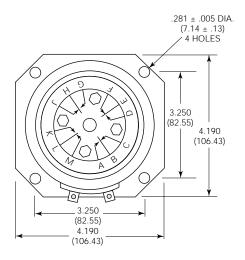
#### **Small Models**

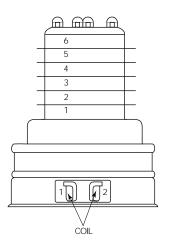


Overall Height 4PDT 3.13" (79.5mm) Max. 8PDT 3.53" (89.7mm) Max. 12PDT 3.88" (98.6mm) Max.

Coil and Contact Terminal Screws #5-40 Supplied

#### **Medium Models**





#### Overall Height

12PDT 4.63" (117.6mm) Max. 16PDT 5.00" (127.0mm) Max. 24PDT 5.75" (146.1mm) Max.

Coil and Contact Terminal Screws #5-40 Supplied