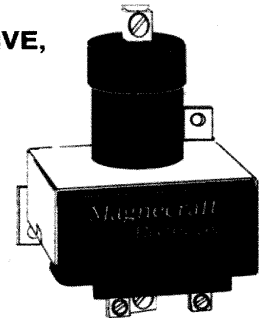


100 AMP MERCURY DISPLACEMENT RELAYS

CLASS
MDR

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MAGNECRAFT HAS DEVELOPED AN MDR WITH MUCH LARGER SWITCHING CAPABILITIES. THE M100 RELAY CAN SWITCH LOADS UP TO 100 AMPERES AT 480VAC FOR RESISTIVE LOADS

CLASS WM100
CAPABLE OF SWITCHING 100 AMP RESISTIVE, TUNGSTEN AND MOTOR LOADS.
DC SWITCHING 28VDC, 100 AMPS



SPECIFICATIONS MERCURY DISPLACEMENT RELAYS

COIL
Frequency of Operation: 60 per minute max.
Pull-in voltage: 80% of nominal voltage, Typ. AC & DC coils.
Dropout voltage: 78% of nominal voltage, typ. AC coils
65% of nominal voltage, typ. DC coils

CONTACTS
Material: Mercury
Contact resistance: .,001 ohm Typical

TIMING
Operate (at nominal voltage) 50 Milliseconds typical
Dropout (at nominal voltage) 100 Milliseconds typical

DIELECTRIC STRENGTH
Across open Contact: 2650 V rms
Coil to Contact: 2650 V rms
Contact to Frame: 2650 V rms
Coil to Frame: 2650 V rms

TEMPERATURE
Operating: - 35°C to + 60°C Under continuous load.

LIFE
Mechanical: (No load) 5,000,000 Operations
Electrical (Rated load) 100,000 Operations

MISCELLANEOUS
Insulation Material: Class B - 130°C
Terminals: # 1 thru 8 AWG wire
Mounting: Vertical ±10°
Options: Coil Voltages from 12VAC to 480VAC; 5VDC thru 250VDC.

CONTACTOR RATINGS FOR M100

VOLTAGE	RESISTIVE AMPS	TUNGSTEN AMPS	HORSEPOWER SINGLE PHASE
120VAC	100	100*	3
240VAC	100	60	5
480VAC	100	30*	15
600VAC	80*	24*	10*
24VDC	100	100	1.5*
48VDC	100	100	1.5*
120VDC	80	80	1.5*
250VDC	40	40	1.5*

* NON UL RATING

Magnecraft PART NUMBER	COIL Measured @ 25°C			
	NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)	NOMINAL CURRENT (AMPS)	NOMINAL POWER
1 POLE NORMALLY OPEN CONTACT				
WM100A-120A	120 VAC	73.5	.275	33VA
WM100A-240A	240VAC, 60HZ 220VAC, 50HZ	300	.138	33VA
WM100A-24D	24VDC	53	.380	10W