

MARR-5 Features and Benefits



Features

- Miniature normally open switch with 19.69mm x 2.66mm (0.775" x 0.105") glass envelope
- Capable of switching 1000Vdc at up to 1mA
- Minimum voltage breakdown 2000Vdc
- 10^{12} Ohms insulation resistance
- Available sensitivity range 17-38 AT

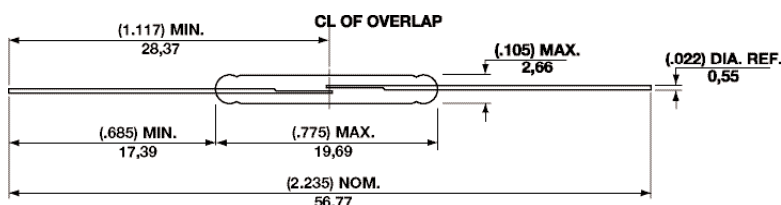
Benefits

- Hermetically sealed switch contacts are not effected by and have no effect on their external environment
- Low, stable contact resistance
- Zero operating power required for contact closure
- Fit and forget durability

Applications

- Reed relays (particularly suitable for high voltage breakdown applications)
- Security
- Limit switching
- Telecoms line switching
- Office equipment
- Automotive applications

DIMENSIONS (in) mm



Switch Type	MARR-5
Contact Form	A
Underwriters Laboratories Recognised, File E47258 (see note 1)	UL

ELECTRICAL RATINGS

Contact Rating (2)		Watt - max.	10
Voltage	Switching (6)	Vdc - max.	1000
	Breakdown	Vdc - min.	2000
Current	Switching	A - max.	0.5
	Carry	A - max.	1.3
Resistance	Contact, Initial	Ω - max.	0.100
	Insulation	Ω - min.	10^{12}
Capacitance	Contact	pF - typ.	0.2
Temperature	Operating	$^{\circ}\text{C}$	-75 to +125
	Storage (7)	$^{\circ}\text{C}$	-75 to +125

OPERATING CHARACTERISTICS

Operate Time (3)		ms - max.	0.75
Release Time (3)		ms - max.	0.3
Shock	1 ms $\frac{1}{2}$ sine wave	G - max.	100
Vibration	50-2000 Hertz	G - max.	30
Resonant Frequency		Hz - typ.	3200

MAGNETIC CHARACTERISTICS

Pull-In Range (4)		Ampere Turns	17-38
Rating Sensitivity (5)		Ampere Turns	35
Test Coil			L4989

Notes 1) For details on electrical specifications, contact Hamlin.

2) Contact rating-Product of the switching voltage and current should never exceed the wattage rating.
Contact Hamlin for additional load/life information.

3) Operate (inc. bounce) /Release Time-per EIA/NARM RS421A, diode suppressed coil.

4) Pull in Range-Contact Hamlin for tolerances available within this range.

5) Rating Sensitivity-The value at which contact ratings and operating characteristics are determined. Derating may be required below this value.

6) MARR-5 Switching current is limited to 1ma at 1000Vdc. Higher voltages and currents can be switched using correct suppression circuitry (consult Hamlin).

7) Storage Temperature-Long time exposure at elevated temperature may degrade solderability of the leads.

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