

### **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 2000 Vdc
- 10<sup>12</sup> Ohms insulation resistance
- Available sensitivity range 17-38 AT

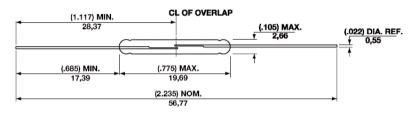
#### **Benefits**

- 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)	91

#### **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	$\Omega$ - min.	I 0¹2
Capacitance	Contact	pF - typ.	0.2
Temperature	Operating	°C	-75 to +125
	Storage (7)	°C	-75 to +125

#### **OPERATING CHARACTERISTICS**

Operate Time (3)		ms - max.	0.75
Release Time (3)		ms - max.	0.3
Shock	I Ims ½ 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

Note

- For details on electrical specifications, contact Hamlin.
- Contact rating-Product of the switching voltage and current should never exceed the wattage rating.
   Contact Hamilin 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.
- MARR-5 Switching current is limited to Ima at 1000 Vdc. Higher voltages and currents can be switched using correct suppression circuitry (consult Hamlin).
- Storage Temperature-Long time exposure at elevated temperature may degrade solderability of the leads.

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