

**Part Number: MH4 500 083**  
**Mercury Wetted Reed Switch - Make Contact**  
**Product Data Sheet**

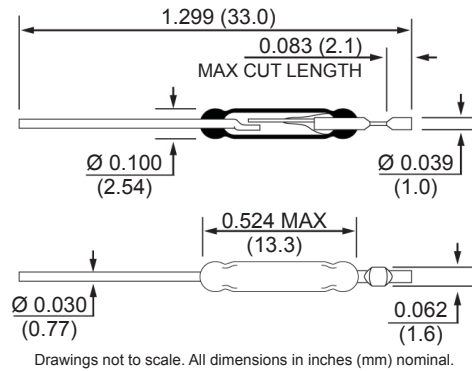
**PICTURE**

**Pb - FREE**  
 Plating and Glass are not containing any lead.

**NOTE:**  
 Vertical mounted required (±30° from vertical)



**DIMENSIONS**



**ORDERING INFORMATION**

**PART NUMBER MH4 500 083 - xx**

- Switch Type
- Operate AT - Range  
 xx = 00 for 20-25 AT  
 xx = 01 for 25-30 AT  
 xx = 02 for 30-35 AT  
 xx = 03 for 35-40 AT  
 xx = 04 for 40-45 AT

**Example:** MH4 500 083 - 01  
 Operate value is between 25 and 30 AT.

**SPECIFICATION**

Contact Form				A - Make Contact
Contact Material				Hg
Switching Voltage	DC / Peak AC Resistance	MAX	1500 Volts	
Switching Current	DC / Peak AC Resistance	MAX	2.0 Amps	
Carry Current (24 h)	DC / Peak AC Resistance	MAX	3.0 Amps	
Contact Rating	DC / Peak AC Resistance	MAX	50 Watts	
Operating Frequency				MAX 200 Hz
Life Expectancy	1.0V, 10mA	MIN	1000 x 10 <sup>6</sup> Ops	
	50V, 1A	MIN	5 x 10 <sup>6</sup> Ops	
	500V, 100mA	MIN	50 x 10 <sup>6</sup> Ops	
Operate AT Range				MIN-MAX 20 - 45 AT
Release AT Range				MIN 8 AT
Insulation Resistance	500V, 25°C 40% RH	MIN	10 <sup>13</sup> Ohms	
Capacitance	Across Open Contacts	0.3 pF		
Dielectric Strength	Between Contacts	MIN	2000 VAC	
Operate Time	1.5 times Operate at 20Hz Sq. Wave 50% DC	MAX	2.0 msec	
Release Time	Zener-Diode Suppression	MAX	1.5 msec	
Drain Time				MAX 5 sec
Static Contact Resistance	50mV, 10mA	MAX	30 mOhms	
Hg Content				0.040 g
Storage Temperature				DEG -40 to +125°C
Operating Temperature				DEG -38 to +125°C
Soldering Temperature	<10 sec at 260°C	DEG	+260	
Vibration Resistance (Survival)	10Hz - 500Hz	MAX	10 g	
Shock Resistance (Survival)	11 ± 1ms, 1/2 Sine Wave	MAX	30 g	
Weight				0.24 grams

NOTE 1: Measured in testcoil NARM 1 or EN119000-03 / Gap position in coil: 2mm below center. The given Operate value has a tolerance of ±2AT.

Operate is available from 20 to 40 AT in classes of 5 AT.

NOTE 2: All parameters are at 25°C unless otherwise stated.

As part of the company policy of continued product improvement, specifications may change without notice. Our sales office will be pleased to help you with the latest information on this product range and the details of our full design and manufacturing service. All products are supplied to our standard conditions of sale unless otherwise agreed in writing.

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