## **SERIES 4001**

# SUB-MINIATURE PRECISION CIRCUIT BREAKER



## **Single-Pole High** Performance

#### Qualified

To MS22073 of MIL-C-5809

#### Lightweight

Under 33 grams (.073 lbs)

#### **High Interrupting Capacity**

Interrupts up to 6,000A circuit at 30V, DC; and up to 3,500A circuit at 120V, 400 Hz. AC.

#### Not Sensitive To Frequency Or Voltage

Breaker may be used on either AC or DC circuits.

#### **Performance Rated Circuit** Breaker

Meets or exceeds military specification requirements for durability, vibration, mechanical shock, and acceleration.Precision internal design provides a time-temperature characteristic capable of protecting either wire or equipment. With a case 1 1/2 inches long, the breaker weighs less than 33 grams, and is ideal for today's demanding design requirements.

PERFORMANCE	DATA
Interrupting Capacity	1 to 5A: 6,000A at 30V, DC. 7

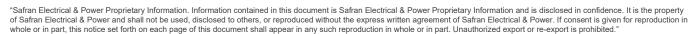
Interrupting Capacity	1 to 5A: 6,000A at 30V, DC. 7 1/2 to 25A: 2,000A at 30V, DC 1A: 3,500A at 120V, 400 Hz., AC. 2 to 5A: 800A					
	at 120V, 400 Hz., AC 7 1/2 to 25A: 500A at 120V, 400 Hz., AC					
Endurance *	At 120V, 400 Hz., AC, or 28V, DC: inductive load — 2,500 cycles; resistive load — 5,000 cycles; mechanical					
	cycling, no load — 5,500 cycles					
Overload Cycling	100 operations at 200% rated current and rated voltage					
Dielectric Strength	1,500V, minimum					
Insulation Resistance	Not less than 100 megohms at 500V, DC					
Voltage Drop	Varies with rating (see "Ordering Information")					
Vibration*	Meets specification MIL-STD-202, Method 204, Condition A, 10G, 10-500 Hz.					
	MS "V" type (4001-008) meets Condition B, 15G, 10–2,000 Hz. and Condition C, 10G, 10–2,000 Hz.					
	MS "D" type (4001-011) meets Random Vibration levels					
Shock*	Exceeds 30G's, 11 Millisec (half-sine pulse) MIL-STD-202, Method 213 Test J					
Acceleration	Exceeds 10G's					
Weight	33 grams (0.073 lbs.)					

\* Variations of these circuit breakers are capable of exceeding the standard Mil specification for endurance, vibration, and shock. Consult the business unit for more information.

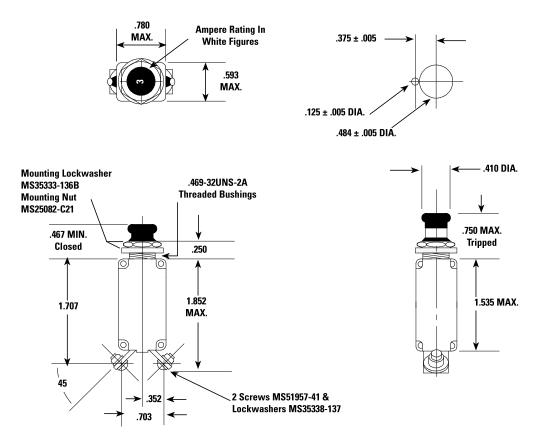
#### OVERLOAD CALIBRATION DATA

Specification Table	@ 25°C		@ +71°C		@ -55°C		Test Time
	MIN	MAX	MIN	МАХ	MIN	MAX	Parameters
Must Hold	115	_	90	_	135	_	% For 1 Hour
Must Trip	_	150	_	130	_	180	% Within 1 Hour
200% Overload	2.000	20.0	_	_	_	_	Seconds
500% Overload	0.160	2.0	_	_	_	_	Seconds
1000% Overload	0.046	0.5	_	_	_	_	Seconds

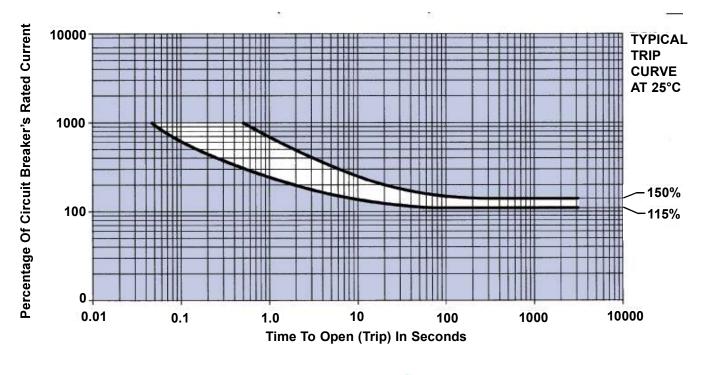
Trip curve available



### DIMENSIONS



#### **TRIP CURVE**



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