



## Single-Pole High Performance

### Qualified

Designed to MS22074 for MIL-C-5809.

### Fast Trip

Operates on a hot-wire principle, much faster than bimetal breakers.

### Fail-Safe Operation

Fault cannot cause breaker to fuse closed.

### Ambient-Compensated

No appreciable change in trip time from -40°C to +71°C.

### Low Resistance

Silver alloy contacts maintain low resistance for life of circuit breaker.

### Load Protection

The fast tripping circuit breaker is ideal for protecting sensitive loads such as avionics and fuel pumps where rapid detection and fault clearing are desired.

### Performance Rated Circuit Breaker

It is the only thermal hot wire type available in ratings from one-half ampere.

The 1500 is a circuit breaker that features fast trip for quick response. Designed for the protection of both wiring and equipment, the unit provides trip indication, trip-free protection, and the convenience of manual on-off operation. Excellent temperature stability is assured by the hot-wire design. The breaker has a high resistance to shock and vibration. Its "Fail Safe" design eliminates the danger of the breaker fusing closed on overload.

### ICU Application

This circuit breaker meets the requirements of MIL-C-83383 for use as a RCCB ICU (Indicator Control Unit). Its I2t function is per specification.

## PERFORMANCE DATA

<b>Interrupting Capacity</b>	1/2 to 1A: 600A at 120V AC, 400 Hz.; 6,000A at 30V DC 1 1/2 to 4A: 1,000A at 120V AC 400 Hz.; 6,000A at 30V DC 5 to 10A: 600A at 120V AC 400 Hz.; 6,000A at 30V DC
<b>Endurance</b>	At 120VAC, 400 Hz., or at 30V DC; inductive load — 2,500 cycles; resistive load — 5,000 cycles; mechanical cycling, no load — 5,000 cycles
<b>Overload Cycling</b>	100 operations at 200% rated current and rated voltage
<b>Dielectric Strength</b>	1,500V, minimum
<b>Insulation Resistance</b>	Not less than 100 megohms at 500V, DC
<b>Voltage Drop</b>	Varies with rating (see "Ordering Information")
<b>Vibration</b>	Exceeds MIL-STD-202, Method 204, Condition A
<b>Shock</b>	Exceeds 30G's, 11 Millisec (half-sine pulse) MIL-STD-202, Method 213 Test J
<b>Acceleration</b>	Exceeds 10G's
<b>Weight</b>	45 grams (.099 lbs.)

## OVERLOAD CALIBRATION DATA

Specification Table	@ 25°C				@ +71°C		@ -40°C		Test Time Parameters
	0.5 – 3A		4.5 – 10A		MIN	MAX	MIN	MAX	
	MIN	MAX	MIN	MAX					
Must Hold	115	—	115	—	115	—	115	—	% For 1 Hour
Must Trip	—	138	—	138	—	138	—	138	% Within 1 Hour
200% Overload	.400	3.0	.800	3.60	—	—	—	—	Seconds
400% Overload	.090	0.6	.140	0.75	—	—	—	—	Seconds
600% Overload	.042	0.3	.055	0.35	—	—	—	—	Seconds

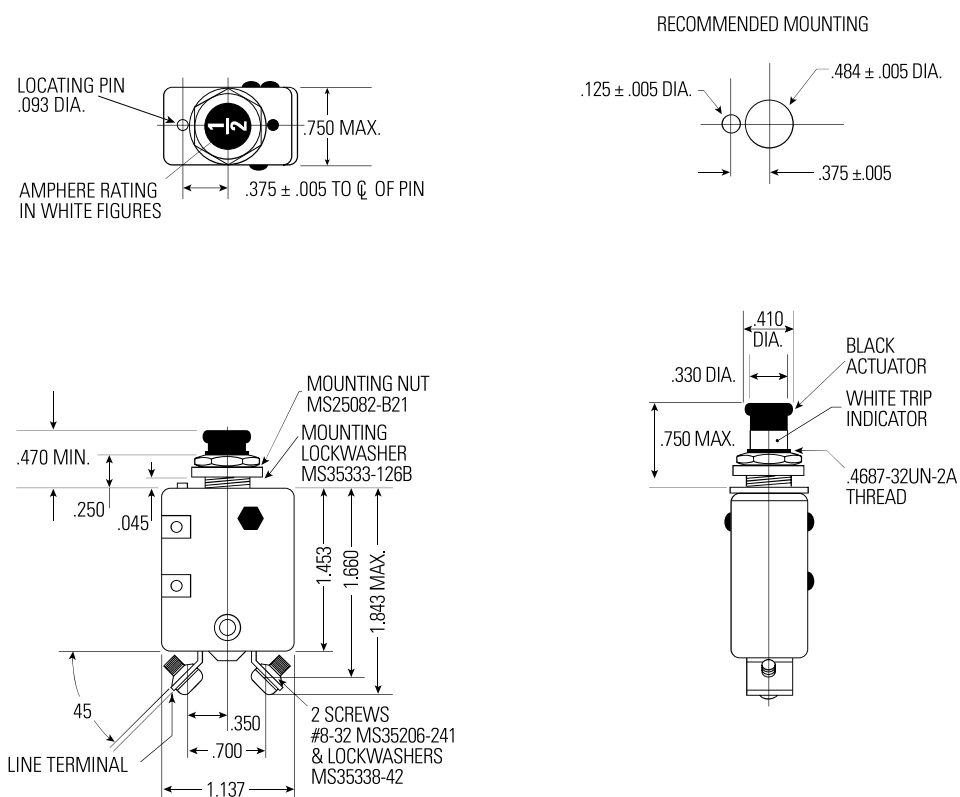
Trip curve available

## ORDERING INFORMATION

Ampere Rating	Voltage Drop Max.*	Part Number
1/2	1.21	1500-052-05
3/4	1.21	1500-052-075
1	1.20	1500-052-1
1 1/2	1.10	1500-052-105
2	0.95	1500-052-2
2 1/2	0.85	1500-052-205
3	0.81	1500-052-3
4	0.72	1500-052-4
5	0.65	1500-052-5
10	0.55	1500-052-10

\* At rated nominal current.  
For other amperage ratings and configurations, consult the Business Unit.

## DIMENSIONS



## TRIP CURVE

