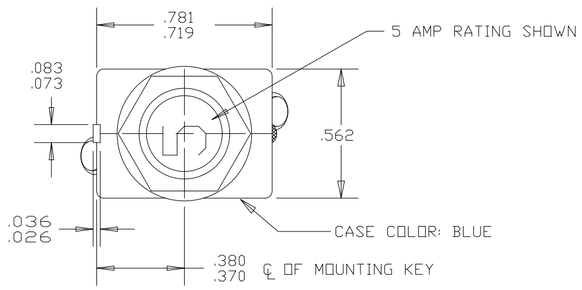
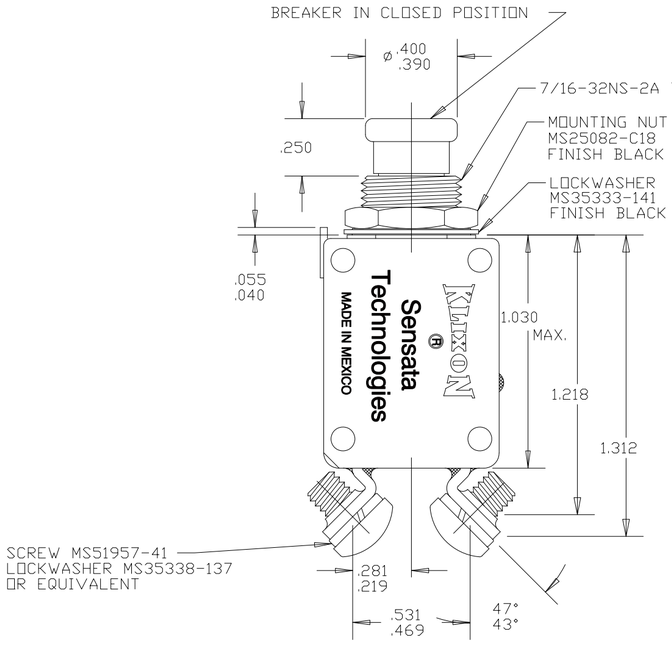
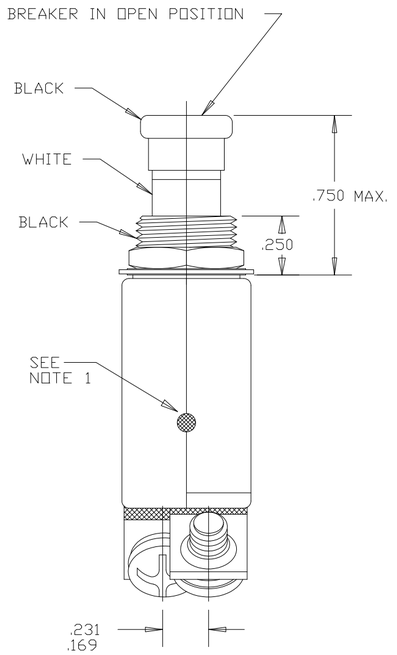
CONVERSION CHART	
INCHES	MM
.026	0.66
.036	0.91
.040	1.02
.055	1.40
.073	1.85
.083	2.11
.250	6.35
.352	8.94
.370	9.40
.380	9.65
.390	9.91
.400	10.16
.562	14.27
.704	17.88
.750	19.05
1.030	26.16
1.218	30.94
1.312	33.32

Property of Sensata Technologies

ZONE	REV.	REVISION DESCRIPTION	ECN NO.	DATE
A4	N	MS PART NO. FOR 2TC49-2 1/2 WAS M5809/1-2 1/2 & MS PART NO. FOR 2TC49-7 1/2 WAS M5809/1-7 1/2;	ECN0042443	09-JUN-2008
B2		FOR CONSISTENCY, CHANGED VOLTAGE DROP FROM A DECIMAL AMP RATING TO A FRACTION; GML		







PERFORMANCE CHARACTERISTICS

DETAIL PERFORMANCE PER MIL-C-5809

OVERLOAD CYCLING	100 CYCLES AT 200% RATING
VIBRATION	10 G'S MINIMUM 50-500 HZ
MECHANICAL SHOCK	50 G'S
ACCELERATION	10 G'S
SAND AND DUST	12 HOURS
CORROSION	SALT SPRAY 50 HOURS
HUMIDITY	10 DAYS
EXPLOSION PROOF	WHILE INTERRUPTING RUPTURE CURRENTS
POST RUPTURE DIELECTRIC	1125 VAC MIN. (1 MA)
POST LINK SEPARATION DIELECTRIC	900 VAC MIN. (1 MA)

ENDURANCE:

120 VAC	400 HZ RESISTIVE	5000 CYCLES
	INDUCTIVE	2500 CYCLES
30 VDC	RESISTIVE	5000 CYCLES
	INDUCTIVE	2500 CYCLES
MECHANICAL	NO LOAD	10000 CYCLES

CALIBRATION: 2.5, 3, 5, 7.5 AND 10 AMP

	MIN. ULT. TRIP	MAX. ULT. TRIP	200%	500%	1000%
+25°C, +77°F	115% RATING	138% RATING	5-20 SEC.	.5-2.0 SEC.	.12-.53 SEC.
-54°C, -65°F	115% RATING	165% RATING	7-40 SEC.	.6-3.0 SEC.	.16-.8 SEC.
+121°C, +250°F	90% RATING	138% RATING	3-13 SEC.	.33-1.1 SEC.	.07-.3 SEC.

RUPTURE:

2 1/2 AMP	120 VAC, 400	2800 AMPS.
3 THRU 10 AMP	120 VAC, 400	2500 AMPS.
2 1/2 THRU 10 AMP	28 VDC	6000 AMPS.

MAXIMUM OPERATING FORCES

PULL OUT	5 LBS. MAX. (22.2 N)
RESET	5 LBS. MAX. (22.2 N)

OPERATING ALTITUDE: 70,000 FT. (21,000 M)

WEIGHT: 25.0 GRAMS MAX.

VOLTAGE DROP:

2 1/2 AMP	0.70 VOLTS MAX.
3 AMP	0.55 VOLTS MAX.
5 AMP	0.35 VOLTS MAX.
7 1/2 AMP	0.30 VOLTS MAX.
10 AMP	0.28 VOLTS MAX.

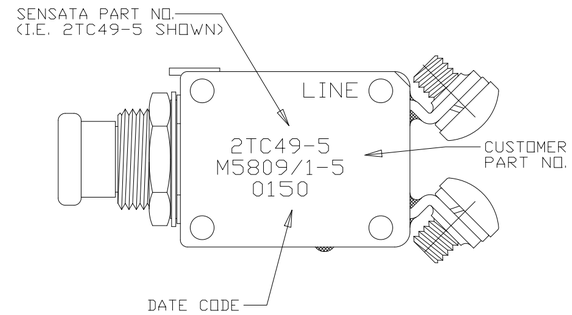
CIRCUIT BREAKER LINK SEPARATION CHARACTERISTICS

MAXIMUM CIRCUIT BREAKER LINK SEPARATION TIMES (IN SECONDS) FOR LOCKED CONTACT CONDITION AS A FUNCTION OF OVERLOAD

	400%	500%	600%	700%	800%	900%	1000%
2 1/2	---	---	34.0	20.0	13.0	9.0	6.0
3	---	---	34.0	20.0	13.0	9.0	6.0
5	---	95.0	36.0	18.0	10.0	6.0	3.5
7 1/2	69.0	28.0	14.0	8.0	4.0	3.5	2.0
10	60.0	35.0	20.0	12.0	7.0	4.0	2.5

MARKING TABLE

SENSATA PART NO.	MS PART NO.
2TC49-2 1/2	M5809/1-2-1/2
2TC49-3	M5809/1-3
2TC49-5	M5809/1-5
2TC49-7 1/2	M5809/1-7-1/2
2TC49-10	M5809/1-10



MARKING
(SEE TABLE)

NOTES:

1. EPOXY SURFACES ARE NON-DIMENSIONED, ENVELOPE DRAWING DIMENSIONS DO NOT APPLY TO THESE PROJECTED EPOXY SURFACES.
2. TERMINAL AND MOUNTING HARDWARE MAY BE PACKAGED RATHER THAN INSTALLED.
3. COUNTRY OF ORIGIN IS SHOWN FOR ILLUSTRATION PURPOSES ONLY, COUNTRY OF ORIGIN TO BE IDENTIFIED AS REQUIRED.
4. DATE CODE PER 10588-285.
5. MARK IN APPROXIMATE POSITION SHOWN IN BLACK INK PER 12506-70.

FOR REFERENCE ONLY, CHECK LATEST REVISION BEFORE USE.
PARTS MADE TO THIS PRINT MUST CONFORM TO E9898 REV. E

DRAWN H.H DATE 10-SEP-1982	SENSATA TECHNOLOGIES PROPRIETARY AND CONFIDENTIAL. NEITHER THIS PRINT NOR THE INFORMATION CONTAINED HEREON IS TO BE USED AGAINST THE INTERESTS OF SENSATA TECHNOLOGIES OR AGAINST THE INTERESTS OF ANY OF ITS AFFILIATED COMPANIES OR WHOLLY OWNED SUBSIDIARIES.
ENGINEER B.J.NM. DATE 04-OCT-1982	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS ANGLES ±.031
APPROVED H.HIRSHERUNER DATE 27-SEP-1982	
APPROVED DATE	DO NOT SCALE DRAWING — THIRD ANGLE PROJECTION

Sensata Technologies
529 PLEASANT STREET
P.O. BOX 2964
ATTLEBORO, MA 02703

TITLE
PART NO 2TC49
AMBIENT COMPENSATED, HIGH TEMP.
CIRCUIT BREAKER
PUSH-PULL, TRIP FREE
ENVELOPE DRAWING

SIZE	DWG NO.	REV.
C	2TC49	N

SCALE 1:1 | AUTOCAD | SHEET 1 OF 1