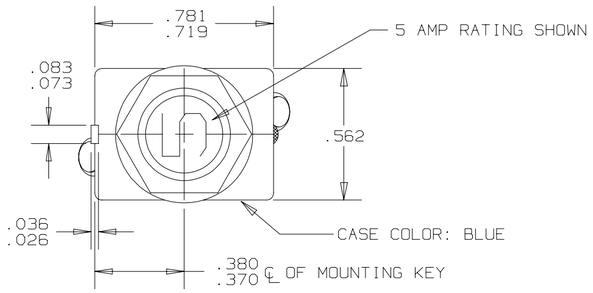
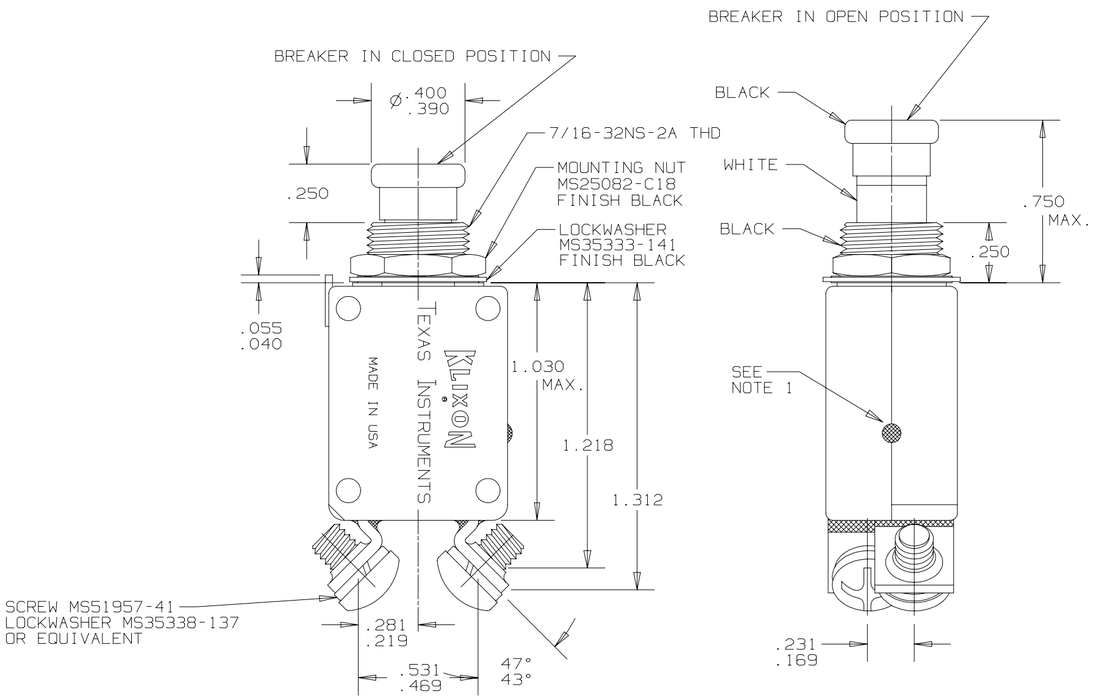
CONVERSION CHART	
INCHES	MM
.026	0.66
.036	0.91
.040	1.02
.055	1.40
.073	1.85
.083	2.11
.250	6.35
.352	8.94
.370	9.40
.380	9.65
.390	9.91
.400	10.16
.562	14.27
.704	17.88
.750	19.05
1.030	26.16
1.218	30.94
1.312	33.32

REVISIONS					
ZONE	LTR	2TC49 DESCRIPTION	PROJ. 1041	DATE	APPROVED
	L	SEE ECN	ECN0017504 PAF	8-20-04	D.A.





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.

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:

2.5 AMP	0.70 VOLTS MAX.
3 AMP	0.55 VOLTS MAX.
5 AMP	0.35 VOLTS MAX.
7.5 AMP	0.30 VOLTS MAX.
10 AMP	0.28 VOLTS MAX.

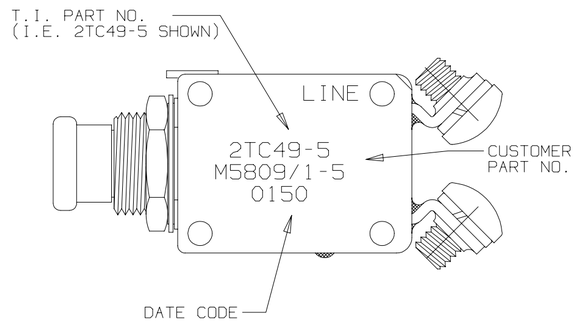
CIRCUIT BREAKER LINK SEPARATION CHARACTERISTICS

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

T.I. 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)

THIS IS A CAD DRAWING. THE GEOMETRY IN THE ASSOCIATED CAD COMPUTER FILE IS DIMENSIONALLY ACCURATE. WHEN DRAWING IS BEING REVISED, THE GEOMETRY MUST BE UPDATED IN ALL VIEWS AND ON ALL SHEETS.

P2 | Q3 | P18

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN H.H	DATE 9-10-82
TOLERANCE ON FRACTIONS DECIMALS ANGLES ±.031	ENGINEER B.J.NM.	10-4-82
	APPROVED N/A	
	APPROVED H.HIRSHERUNER	9-27-82
MATERIAL		
SIGNATURES ON FILE. REFER TO ELECTRONIC CHANGE NOTICE.		

TEXAS INSTRUMENTS
ATTLEBORO, MASSACHUSETTS 02703

KLIXON® CONTROL PRODUCTS DIVISION

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

SIZE	CODE IDENT NO.	
C	82647	2TC49

SCALE: 4X | SHEET 1 OF 1