



## | 2TC SERIES

1–25 Amp, Single-Phase, Miniature Ambient Compensated

### Introduction

The Klixon trademark has historically set the standard for aerospace circuit breakers. Despite the small size, the TC series offers the endurance and reliability offered by exacting military and commercial applications.



### Features

- Miniature size
- Light weight
- Trip-free design
- Current ratings 1 to 25 amps
- High vibration resistance
- High interrupting capacity
- Coordinated ratings
- AS58091 qualified (Also: Military Approvals, FAA PMA)
- Typical end use: Aircraft power distribution systems



### PERFORMANCE CHARACTERISTICS

<b>Vibrations</b>	10G minimum, 50–500 Hz (other vibration levels available)	
<b>Mechanical Shock</b>	50G	
<b>Acceleration</b>	10G	
<b>Weight</b>	24 gram maximum (2TC14)	
<b>Interrupt Current</b>	1–20 amps: 6,000 amps at 28 VDC 25 amps: 1,625 amps at 28 VDC 1–15 amps: 2,500 amps at 120 VAC, 400 Hz	20 amps: 2,000 amps at 120 VAC, 400 Hz 25 amps: 1,800 amps at 120 VAC, 400 Hz
<b>Endurance</b>	2,500 cycles: 120 VAC, 400 Hz inductive 5,000 cycles: 120 VAC, 400 Hz resistive 2,500 cycles: 30 VDC inductive	5,000 cycles: 30 VDC resistive 10,000 cycles: Mechanical, no load



## CALIBRATION CHART

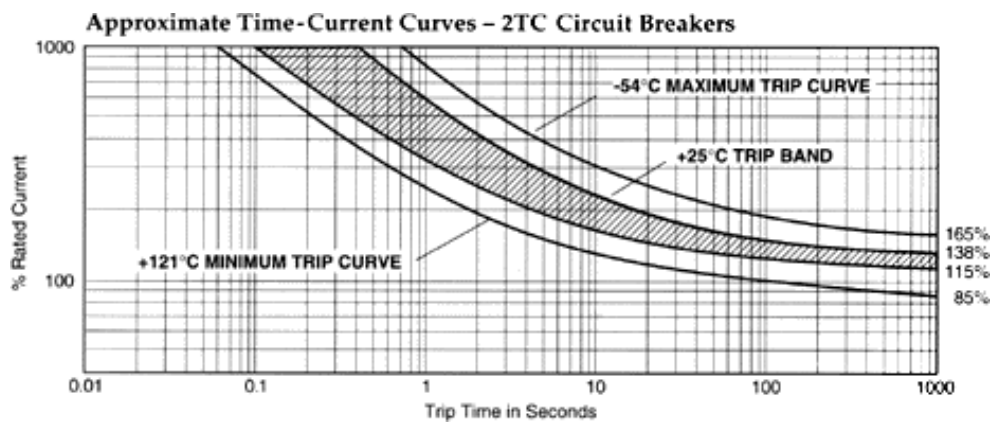
For a Standard Device

Temp.	Minimum Ultimate Trip	Maximum Ultimate Trip	Trip Time (in seconds)		
			200%	500%	1000%
25°C	115%	138%	4–16	0.40–1.60	0.10–0.40
-54°C	115%	165%	7–35	0.60–3.00	0.15–0.70
121°C	85%	145%	2–13	0.25–1.00	0.06–0.25

*For others, please contact us.*



## TRIP CURVE



## VOLTAGE DROP

Amp Rating	Max. Voltage Drop*
1	1.10
2	0.70
2 ½	0.50
3	0.40
4	0.45
5	0.35
7 ½	0.30
10	0.28
15	0.25
20	0.25
25	0.20

\*Maximum voltage drop at nominal rated current.



2TCX - X

Family

- 2TC2
- 2TC14
- 2TC27
- 2TC49

Amp Rating

- 1 = 1 amp
- 2 = 2 amp
- 2 ½ = 2 ½ amp
- 3 = 3 amp
- 4 = 4 amp
- 5 = 5 amp
- 7 ½ = 7 ½ amp
- 10 = 10 amp
- 15 = 15 amp
- 20 = 20 amp
- 25 = 25 amp

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