



| 2TC SERIES

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

Introduction

Klixon® single–phase TC devices are the smallest, lightest high performance aircraft circuit breakers available today. They represent the state-of-the-art protection of today’s aerospace power systems. Their light weight and small size make them especially well suited for aircraft, avionics and electronic systems. The Klixon® trademark has set the standard for aerospace circuit breakers and the TC series offers the endurance and reliability required by exacting military specifications.



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

Vibrations	10G minimum, 50–500 Hz (other vibration levels available)	
Mechanical Shock	50G	
Acceleration	10G	
Weight	24 gram maximum (2TC14)	
Interrupt Current	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
Endurance	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

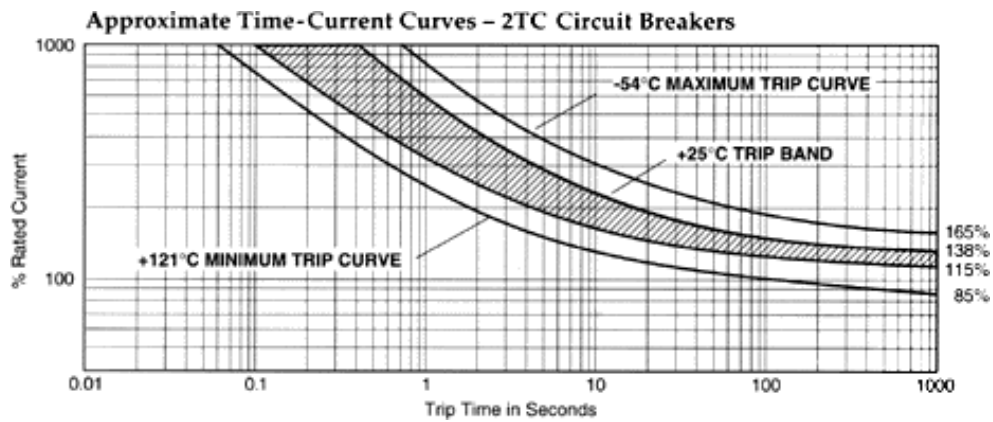
For a Standard Device

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
- 25C27
- 25C49

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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