



KLIXON® | 5TC SERIES

20 to 50 Amp, Aircraft Circuit Breakers

FEATURES

- 28VDC or 120VAC, 20 to 50 Amps
- High vibration resistance and interrupt capacity
- Ambient temperature compensation and trip-free design
- European & SAE standards
- All U.S. and most European aircraft OEM's qualifications

ADDITIONAL OPTIONS*

- Longer push buttons
- Terminal barriers

DESCRIPTION

The Klixon® single-phase TC devices are the smallest, lightest aircraft circuit breakers available today. Their light-weight and small size make them especially well suited for aircraft, avionics and electronic systems. Despite the small size, the TC series offers the endurance and reliability required by exacting military specifications.

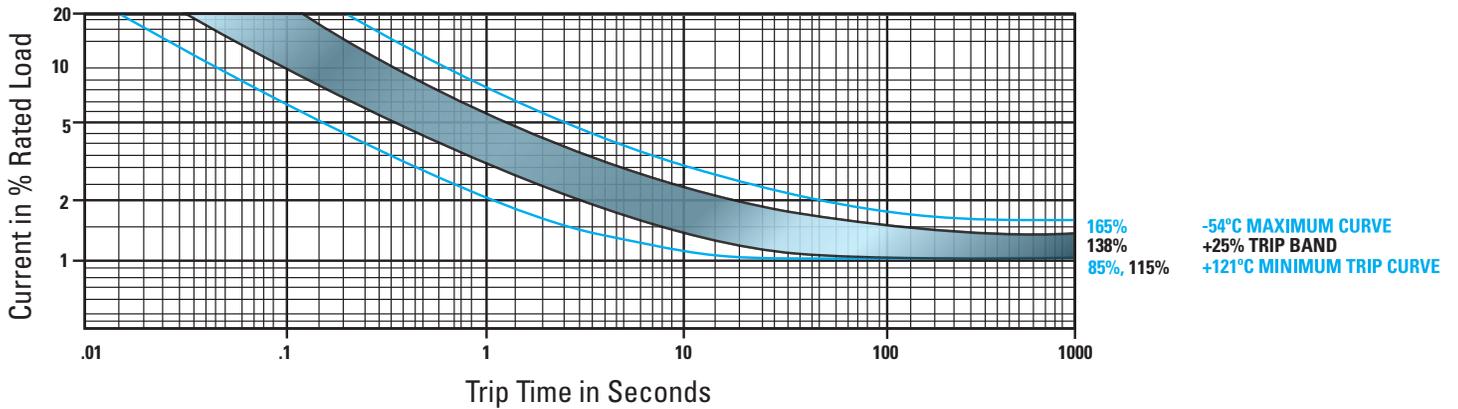
The single-phase 5TC breaker rating is coordinated so that in the event of a fault of up to 600 amps let-through current, any rating will trip before another circuit breaker twice its rating. This results in improved overall equipment performance since only the smallest faulted circuit is interrupted, while larger circuits remain operational.

PERFORMANCE CHARACTERISTICS	
Calibration : 200% rated current, 73°F (23°C)	5TC: 20A to 50A for 2 to 18 seconds
Ultimate Trip at 77°F (25°C)	Must hold : 110% Must trip : 145%
Endurance	2,500 cycles : 115 VAC, 400 Hz Inductive 2,500 cycles : 28 VDC, Inductive 2,500 cycles : 28 VDC, Resistive 5,000 cycles : Mechanical, no load
Interrupt Current Capacity	20 to 50 amps: 4000 amps at 28 VDC 20 to 50 amps: 2000 amps at 115 VAC, 400 Hz
Vibration Resistance**	10G minimum, 80 - 500 Hz
Mechanical Shock Resistance	50G
Insulation Resistance	100 MΩ min
Acceleration	10G
Weight	5TC - 58 gm max 5TC with auxiliary switch - 59 gm max

ORDERING INFORMATION	
Sensata PN	Qualifications PN
5TC50-XX	ASNE0732-005
5TC65-XX	NSA93121
5TC66-XX	EN3361-006

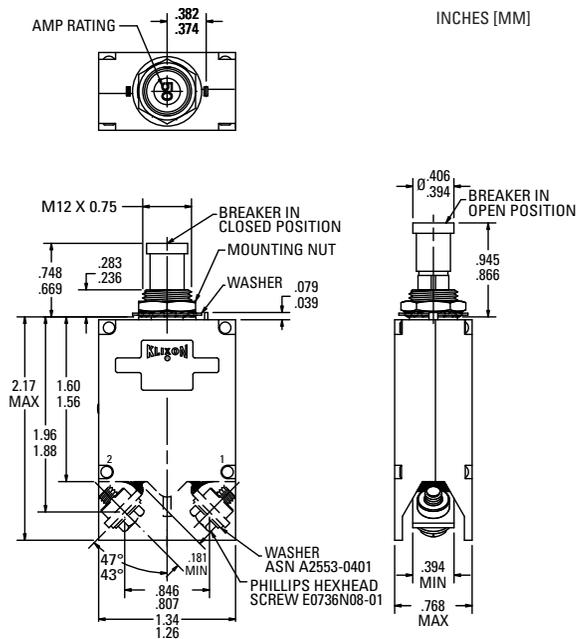
** Other vibration levels available, contact factory for details

TRIP CURVE - Approximate Time, Current Characteristics at 73°F (23°C)



MAX VOLTAGE DROP @ NOMINAL RATED CURRENT		CALIBRATION : 20 TO 50 AMPS					
Part Number	Max Voltage Drop	TEMP °C	MIN ULT TRIP	MAX ULT TRIP	Trip Time in Seconds		
					200%	500%	1000%
5TCXX-20	0.15	+25	110%	145%	2 to 18	.4 to 1.6	.10 to .40
5TCXX-25	0.15	-54	110%	165%	70 max	.6 to 3.0	.15 to .70
5TCXX-35	0.15	+70	105%	145%	7 to 35	.6 to 3.0	.15 to .70
5TCXX-50	0.12	+121	90%	145%	2 to 13	.25 to 1.0	.06 to .25

DIMENSIONAL DRAWINGS - 5TC50



DIMENSIONAL DRAWINGS - 5TC65

