

KLIXON 6TC & 9TC SERIES

1 to 35 Amp, Three-Phase Aircraft Circuit Breakers

FEATURES

- 28VDC or 120VAC, 1 to 35 Amps
- · High vibration resistance and interrupt capacity
- Ambient temperature compensation and trip-free design
- Mil-qualifications
- European & SAE standards
- All U.S. and most European aircraft OEM's qualifications

ADDITIONAL OPTIONS*

- · Longer push buttons
- High vibration
- · Metric mounting or terminal thread
- Dust boot ‡
- Auxiliary switch ‡‡

DESCRIPTION

The Klixon® three-phase 6TC & 9TC circuit breakers provide ambient compensated circuit protection in a lightweight, subminiature package size. The three phase design integrates each individual phase to provide overcurrent protection in the event of simultaneous or unbalanced overloads, including short circuit conditions.

The 6TC series is compatible with the single—phase 2TC and 3TC. The 6TC is available in ratings from 2 to 20 amps, with military and various commercial approvals on most styles.

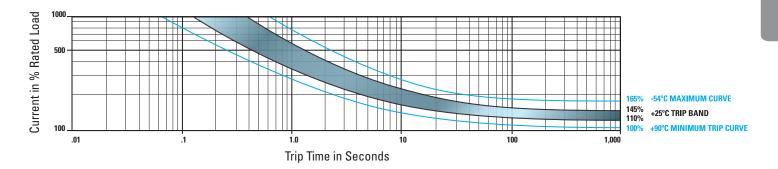
PERFORMANCE CHARACTERISTICS						
Calibration : 200% rated current, 77°F (25°C)	6TC: 2A to 25A for 4 to 20 seconds 9TC: 2A to 35A for 4 to 20 seconds					
Ultimate Trip at 77°F (25°C)	Must hold : 145% Must trip : 110%					
Endurance	2,500 cycles: 120 VAC, 400 Hz Inductive 5,000 cycles: 120 VAC, 400 Hz Resistive 5,000 cycles: Mechanical, no load					
Interrupt Current Capacity	2-20 amps : 2,000 amps @ 120 VAC, 400 Hz 1, 15-35 amps : 2,000 amps @ 120 VAC, 400Hz					
Vibration Resistance**	10G minimum, 50 - 500 Hz					
Mechanical Shock Resistance	50G					
Insulation Resistance	100 MΩ min					
Acceleration	10G					
Weight	6TC14 - 65 gm max 9TC14 - 110 gm max					

ORDERING INFORMATION				
Sensata PN	Qualifications PN			
6TC2 6TC37 6TC63 9TC2	MS14154 MS14154L MS14154V MS14153			

^{**} Other vibration levels available, contact factory for details ## Available on 6TC device only

6TC 2, 2.5, 3, 4, 5, 7.5, 10, 15, 20 military approved 9TC 1, 15,20,25,30,35 military approved

TRIP CURVE - Approximate Time, Current Characteristics at 77°F (25°C)



MAX VOLTAGE DROP @ NOMINAL RATED CURRENT								
Part Number	***Max Voltage Drop	Part Number	***Max Voltage Drop					
6TC14-2	0.70	6TC14-20	0.176					
6TC14-2½	0.50	6TC14-25,	0.00					
6TC14-3	0.40	30, 35	0.20					
6TC14-4	0.37							
6TC14-5	0.35							
6TC14-7½	0.182	9TC14-1	1.1					
6TC14-10	0.176	9TC14-15,	0.05					
6TC14-15	0.176	20, 25, 30, 35	0.25					

CALIBRATION : 1 TO 35 AMPS								
TEMP °C	MIN ULT TRIP	MAX ULT TRIP	Trip Time in Seconds					
			200%	500%	1000%			
+25	110%	145%	4 to 20	.4 to 2.0	.10 to .53			
-54	110%	165%	6 to 40	.55 to 3.5	.15 to .80			
+71	100%	145%	3 to 20	.33 to 1.7	.08 to .40			

^{***} Maximum voltage drop at 100%, nominal rated current

DIMENSIONAL DRAWINGS - 6TC14

