

3TC7 Series

Single Phase, Non Ambient Compensated, High Short Circuit Interrupting Capacity

Features

- Lightweight
- Miniature size
- High interrupting capacity
- High vibration resistance
- MIL-C-5809 (MS25244)
- Available in 5-35 amperes



Overview

The Klixon 3TC7 style circuit breaker is a lightweight, high performance, non ambient temperature compensated circuit breaker that is well suited for aircraft, avionics and electrical systems. The 3TC7 series features a trip free design that prevents the circuit breaker from being closed manually on overloads. The 3TC7 interrupting a 6,000A circuit at 30 VDC, or 3,500A circuit at 120 VAC, 400 Hz.

The Klixon trademark continues to set the standard for lightweight configurations and offers the endurance and reliability required by exacting military specifications. The 3TC7 is currently available in 5-35 amperes.

Detailed Performance Data

Interrupting Capacity 6000 Amperes at 30VC

Endurance120 VAC, 400 Hz Inductive
120 VAC, 400 Hz Resistive
30 VDC, Inductive
30 VDC, Resistive

Mechanical, no load 10 G's

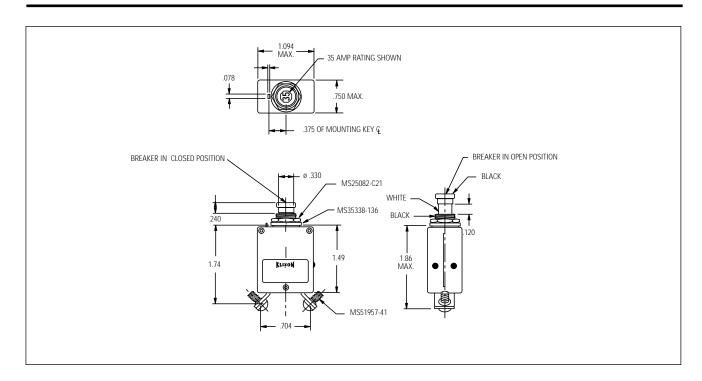
Vibration10 G'sMechanical Shock30 G's peakAcceleration10 G'sWeight39 gmOperating Altitude65,000 ft

3500 Amperes at 120 VAC, 400 Hz 2,500 Cycles 5,000 Cycles 2,500 Cycles 5,000 Cycles 5,000 Cycles

| TI Number | MS Number | Amp Rating | Voltage Drop |
|-----------|------------|------------|--------------|
| 3TC7-5 | MS25244-5 | 5 | .25 |
| 3TC7-7½ | MS25244-7½ | 7½ | .25 |
| 3TC7-10 | MS25244-10 | 10 | .25 |
| 3TC7-15 | MS25244-15 | 15 | .25 |
| 3TC7-20 | MS25244-20 | 20 | .25 |
| 3TC7-25 | MS25244-25 | 25 | .25 |
| 3TC7-30 | MS25244-30 | 30 | .25 |
| 3TC7-35 | MS25244-35 | 35 | .25 |
| | | | |



Characteristics 3TC7



| | Calibration | Min Ult Trip | Max Ult Trip | 200% | 400% | 600% |
|---|--------------------|--------------|--------------|-------------|---------------|---------------|
| Ī | +25 ⁰ C | 115% | 138% | 15 - 55 sec | 2.0 - 7.0 sec | 1.0 - 3.5 sec |
| | -40 ⁰ C | 148% | 178% | - | - | - |
| Ī | +71 ⁰ C | 70% | 114% | - | - | - |

Approximate Time-Current Curve 3TC7 Circuit Breakers

