

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

**Visit our website - *Click HERE***

# 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<br>25 amps: 1,625 amps at 28 VDC<br>1–15 amps: 2,500 amps at 120 VAC, 400 Hz | 20 amps: 2,000 amps at 120 VAC, 400 Hz<br>25 amps: 1,800 amps at 120 VAC, 400 Hz |
| **Endurance** | 2,500 cycles: 120 VAC, 400 Hz inductive<br>5,000 cycles: 120 VAC, 400 Hz resistive<br>2,500 cycles: 30 VDC inductive | 5,000 cycles: 30 VDC resistive<br>10,000 cycles: Mechanical, no load |



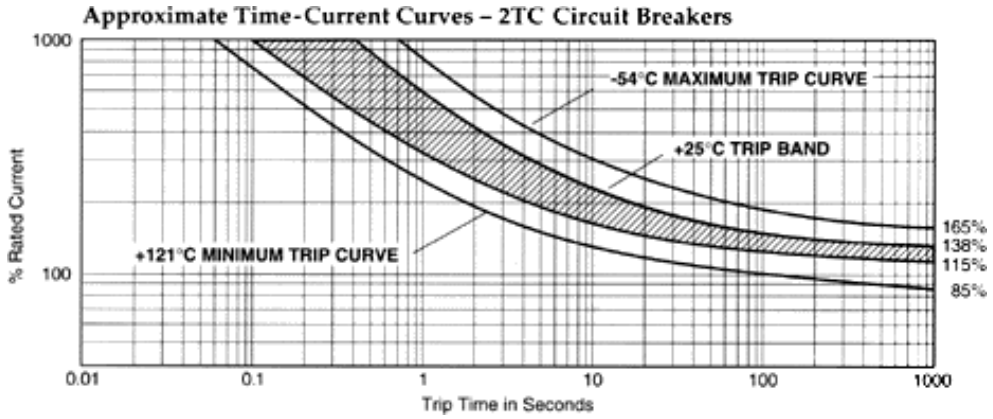
Copyright © 2018 Sensata Technologies, Inc.

## 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.*



Copyright © 2018 Sensata Technologies, Inc.

## ORDERING OPTIONS

Example: 2TC2-25

**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



Sensata Technologies, Inc. ("Sensata") data sheets are solely intended to assist designers ("Buyers") who are developing systems that incorporate Sensata products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products. Sensata data sheets have been created using standard laboratory conditions and engineering practices. Sensata has not conducted any testing other than that specifically described in the published documentation for a particular data sheet. Sensata may make corrections, enhancements, improvements and other changes to its data sheets or components without notice.
Buyers are authorized to use Sensata data sheets with the Sensata component(s) identified in each particular data sheet. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER SENSATA INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN. SENSATA DATA SHEETS ARE PROVIDED "AS IS". SENSATA MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE DATA SHEETS OR USE OF THE DATA SHEETS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. SENSATA DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO SENSATA DATA SHEETS OR USE THEREOF.
All products are sold subject to Sensata's terms and conditions of sale supplied at www.sensata.com SENSATA ASSUMES NO LIABILITY FOR APPLICATIONS ASSISTANCE OR THE DESIGN OF BUYERS' PRODUCTS. BUYER ACKNOWLEDGES AND AGREES THAT IT IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL LEGAL, REGULATORY AND SAFETY-RELATED REQUIREMENTS CONCERNING ITS PRODUCTS, AND ANY USE OF SENSATA COMPONENTS IN ITS APPLICATIONS, NOTWITHSTANDING ANY APPLICATIONS-RELATED INFORMATION OR SUPPORT THAT MAY BE PROVIDED BY SENSATA.
Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

**Americas**
+1 (508)-236-3287
klixon@sensata.com

AUTHORIZED DISTRIBUTORS
Flame Enterprises
Bob Correa, Director of Product Management
+1 (240) 236-9802
bcorrea@flamecorp.com
info@flamecorp.com | Web
Tel: 1-800-854-2255 or 1-818-700-2905
Fax: 1-818-407-5080

Peerless Electronics
Steve Gunther, National Sales Manager
+1 (516) 594-3509
sgunther@peerlesselectronics.com
nysales@peerlesselectronics.com | Web
Tel: 1-800-285-2121
Fax: 1-800-222-8096

**Europe, Middle East & Africa**
Flame Enterprises
Bob Correa, Director of Product Management
+1 (240) 236-9802
bcorrea@flamecorp.com
info@flamecorp.com | Web
Tel: 1-800-854-2255 or 1-818-700-2905
Fax: 1-818-407-5080

## CONTACT US

Copyright © 2018 Sensata Technologies, Inc.

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP