9TC SERIES

1 Amp, 15 to 35 Amp, 3–Phase, Miniature, Ambient Compensated

Introduction

Klixon® 9TC series circuit breakers provide ambient compensated circuit protection in a lightweight, sub-miniature package size. The three–phase integrally linked design provides overcurrent protection in the event of simultaneous or unbalanced overloads, including short circuit conditions.

Features

- Miniature size
- Light weight
- Trip–free design
- AS58091 qualified
- Current rating: 1, 15 to 35 amp
- High interrupting capacity
- Protective terminal barriers between each phase
- Vibration pads improve mounting stability
- One phase trips all
- Includes features identical to Klixon® 2TC and 3TC series
- Options include: longer push buttons, dust boot (part #14500-1 fits 15/32 bushing, part #14500-5 fits 7/16 bushing)

PERFORMANCE CHARACTERISTICS

Vibrations	10G minimum, 50–500 Hz
Mechanical Shock	50G
Acceleration	10G
Weight	88 grams (without hardware) 110 gram maximum (9TC14)
Interrupt Current	1, 15–35 amps: 2,000 amps at 120 VAC, 400 Hz
Endurance	2,500 cycles: 120 VAC, 400 Hz inductive 5,000 cycles: 120 VAC, 400 Hz resistive 5,000 cycles: Mechanical, no load

QUALIFICATIONS

Mil-spec	MS 14153 (9TC2 device)
USA	All U.S. Aircraft OEMs

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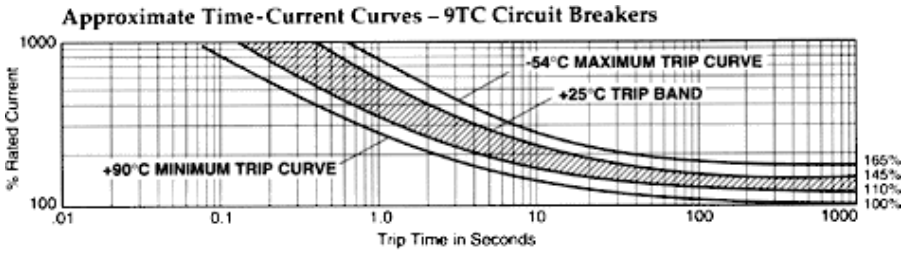
CALIBRATION CHART

For a Standard Device

Temp.	Minimum Ultimate Trip	Maximum Ultimate Trip*	Trip Time (in seconds)		
			200%	500%	1000%
25°C	110%	145%	4-20	0.40-2.00	0.10-0.53
-54°C	110%	165%	6-40	0.55-3.50	0.15-0.80
71°C	100%	145%	3-20	0.33-1.70	0.08-0.40

Depicts the most typical standard commercial device. For others, please contact us.
** Single–phase values apply when other two phases carry 100% of rated current.*

TRIP CURVE



VOLTAGE DROP

Amp Rating	Max. Voltage Drop*
1	1.10
15	0.25
20	0.25
25	0.25
30	0.25
35	0.25

**Maximum voltage drop at nominal rated current.*

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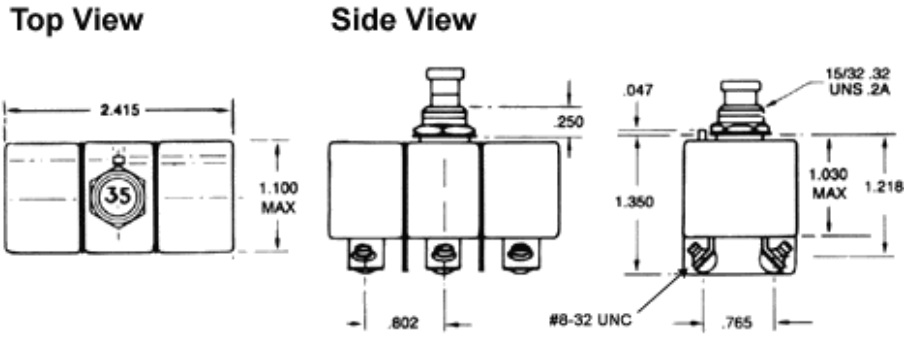
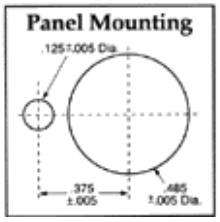
DIMENSIONS

Dimensions in mm [Inch]





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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

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Rev:10/05/18

CONTACT US

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