



Sensata

Technologies

7270 & 7271 SERIES



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| 7270 & 7271 SERIES

Toggle Switch or Pushbutton, Single-Phase

Introduction

Klixon® 7270 and 7271 series circuit breakers were designed to utilize less space behind the panel while protecting wire and cable in aircraft and ground support equipment on 120 VAC, 400 Hz or 30 VDC systems.

Inherently resistant to shock and vibration, the Klixon® disc element is capable of calibration within close tolerances throughout the service life of the breaker.



Features

- Trip-free operation
- Snap-acting thermal element
- Small size
- Light weight
- MIL-C-5809 qualified
- Current rating: 3 to 35 amps
- High interrupting capacity
- Available with neck mounting (7270-1 and 7271-8 devices) or standard cover plate (7270-7 and 7271-3 devices)
- Typical use: Aircraft and ground support equipment

PERFORMANCE CHARACTERISTICS

Vibrations	10G minimum, 50–500 Hz (other vibration levels available)
Mechanical Shock	30G
Acceleration	10G
Weight	39 grams maximum (7270-1 and 7271-8)
Endurance	5,000 cycles: 120 VAC, 400 Hz, inductive 5,000 cycles: 120 VAC 400 Hz, resistive 5,000 cycles: 30 VDC, inductive 2,500 cycles: 30 VDC, resistive 5,000 cycles: Mechanical, no load

CALIBRATION CHART

For a Standard Device

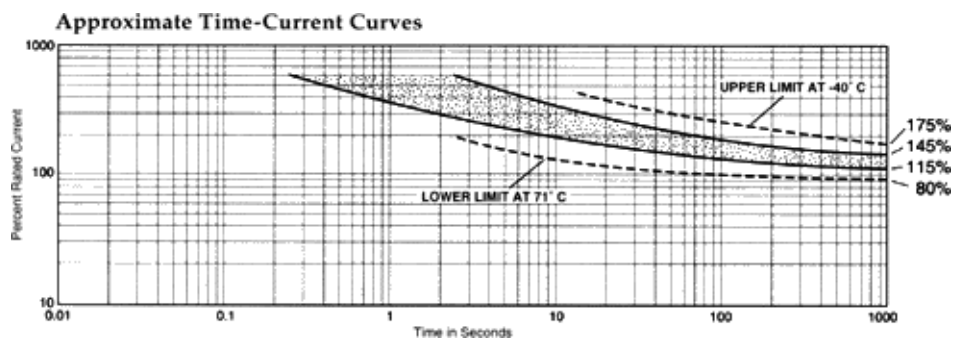
Temp.	Minimum Ultimate Trip	Maximum Ultimate Trip	Trip Time (in seconds)		
			200%	500%	1000%
25°C	105%	145%	15–65	2–10	1.4
-40°C	138%	175%	15–65	2–10	1.4
70°C	80%	125%	15–65	2–10	1.4

The most typical device is 3–35 amps. For others, please contact us.

CALIBRATION CHART BY AMPS

Amps	Calibration at 25°C		
	200%	400%	600%
3 amps	40–120 seconds	3–26 seconds	1–12 seconds
5 amps	40–100 seconds	3–22 seconds	1–10 seconds
7.5 amps	10–70 seconds	0.75–7.0 seconds	0.25–2.5 seconds
10 amps	10–70 seconds	0.75–7.0 seconds	0.25–2.5 seconds
15 amps	10–70 seconds	0.75–7.0 seconds	0.25–2.5 seconds
20 amps	10–70 seconds	0.75–7.0 seconds	0.25–2.5 seconds
25 amps	10–70 seconds	0.75–7.0 seconds	0.25–2.5 seconds
30 amps	10–70 seconds	0.75–7.0 seconds	0.25–2.5 seconds
35 amps	10–70 seconds	0.75–7.0 seconds	0.25–2.5 seconds

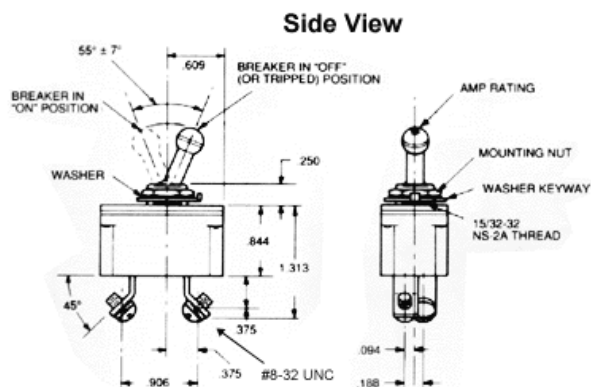
TRIP CURVE



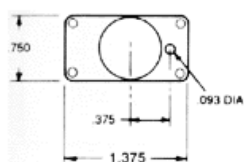
DIMENSIONS

Dimensions in mm [Inch]

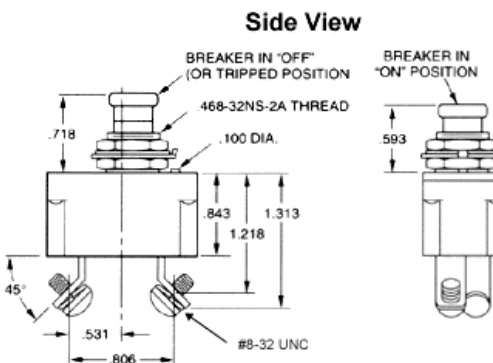
7270-1



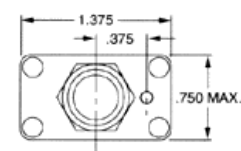
Top Plate



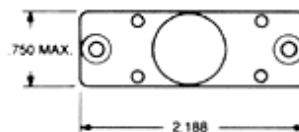
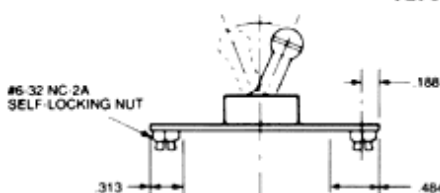
7271-8



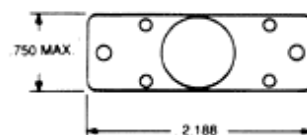
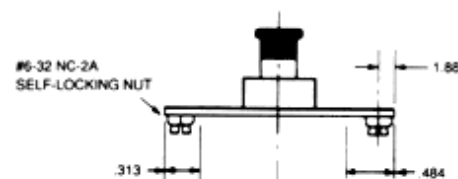
Top Plate



7270-7



7271-3



THE CONFIGURATION AND SIZE OF ALL 7270-7271 SERIES CIRCUIT BREAKERS, FROM THE TOP PLATE DOWN, ARE THE SAME.

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