



KLIXON® | 7270 & 7271 SERIES

3 to 35 Amp, Miniature Aircraft Circuit Breakers

FEATURES

- 30VDC or 120VAC, 3 to 35 Amps
- Miniature aircraft breaker
- Ambient temperature compensation and trip-free design
- AS58091 qualified
- High interrupting capacity
- Available with neck mounting or standard cover plate

DESCRIPTION

The 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. The units are available with neck mounting (7270-1 and 7271-8) or standard cover plate (7270-7 and 7271-3).

ORDERING INFORMATION

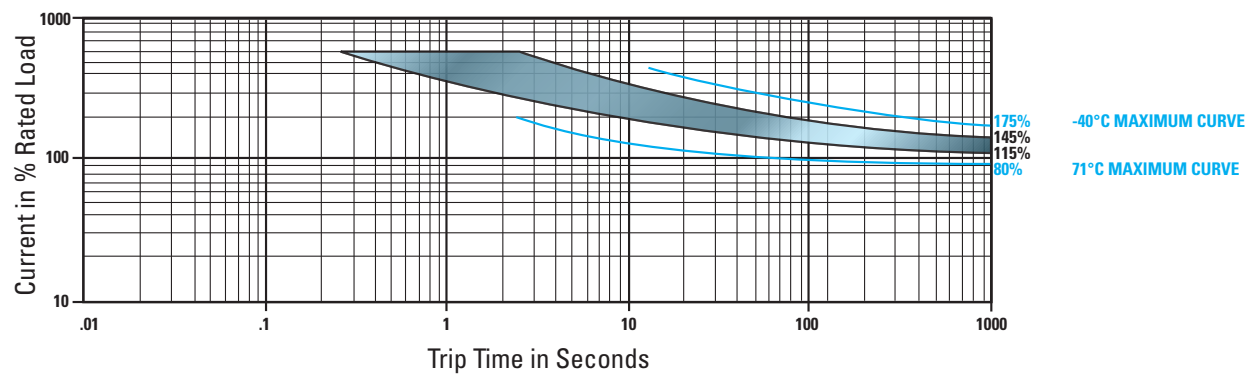
Sensata PN	Qualifications PN
7270-1	
7270-1-3	—
7270-1-5	MS24509-A-5
7270-1-7½	MS24509-A-7½
7270-1-10	MS24509-A-10
7270-1-15	MS24509-A-15
7270-1-20	—
7270-1-25	—
7270-1-30	—
7270-1-35	—
7270-7	
7270-7-3	—
7270-7-5	MS24509-B-5
7270-7-7½	MS24509-B-7½
7270-7-10	MS24509-B-10
7270-7-15	MS24509-B-15
7270-7-20	—
7270-7-25	—
7270-7-30	—
7270-7-35	—
7270-3	
7270-3-3	—
7270-3-5	MS24510-B-5
7270-3-7½	MS24510-B-7½
7270-3-10	MS24510-B-10
7270-3-15	MS24510-B-15
7270-3-20	—
7270-3-25	—
7270-3-30	—
7270-3-35	—
7270-8	
7270-8-3	—
7270-8-5	MS24510-A-5
7270-8-7½	MS24510-A-7½
7270-8-10	MS24510-A-10
7270-8-15	MS24510-A-15
7270-8-20	—
7270-8-25	—
7270-8-30	—
7270-8-35	—

PERFORMANCE CHARACTERISTICS

Calibration : 200% rated current, 77°F (25°C)	3A to 35A for 15 to 65 seconds
Ultimate Trip at 77°F (25°C)	Must hold : 145% Must trip : 105%
Endurance	5,000 cycles : 30 VDC, Inductive 2,500 cycles : 30 VDC, Resistive 5,000 cycles : 120 VAC, 400 Hz Inductive 5,000 cycles : 120 VAC, 400 Hz Resistive 5,000 cycles : Mechanical, no load
Interrupt Current Capacity	4,000 amps @ 30 VDC 3,500 amps @ 120 VAC, 400Hz
Vibration Resistance**	10G minimum, 50 - 500 Hz
Mechanical Shock Resistance	30G
Insulation Resistance	100 MΩ min
Acceleration	10G
Weight	7270-1 - 39 gm max 7271-8 - 39 gm max

** Other vibration levels available, contact factory for details
 ††† Available on 6TC device only

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



MAX VOLTAGE DROP @ NOMINAL RATED CURRENT		
Part Number	Part Number	***Max Voltage Drop
7270-X-3	7271-X-3	0.75
7270-X-5	7271-X-5	0.65
7270-X-7½	7271-X-7½	0.50
7270-X-10	7271-X-10	0.50
7270-X-15	7271-X-15	0.50
7270-X-20	7271-X-20	0.50
7270-X-25	7271-X-25	0.50
7270-X-30	7271-X-30	0.50
7270-X-35	7271-X-35	0.50

CALIBRATION : 3 TO 35 AMPS					
TEMP °C	MIN ULT TRIP	MAX ULT TRIP	Trip Time in Seconds		
			200%	500%	1000%
+25	105%	145%	15 to 65	2 to 10	1.4
-40	138%	175%	15 to 65	2 to 10	1.4
70	80%	125%	15 to 65	2 to 10	1.4

MAX VOLTAGE DROP @ NOMINAL RATED CURRENT			
Amps	Calibration @ 25°C (in seconds)		
	200%	400%	600%
3 amps	40 to 120	3 to 26	1 to 12
5 amps	40 to 100	3 to 22	1 to 10
7½ to 35 amps	10 to 70	0.75 to 7.0	0.25 to 2.5

*** Maximum voltage drop at 100%, nominal rated current

DIMENSIONAL DRAWINGS - 7270-1

