



# KLIXON | 2EP SERIES

## 1 to 35 Amps, UL Listed Commercial Circuit Breakers

### FEATURES

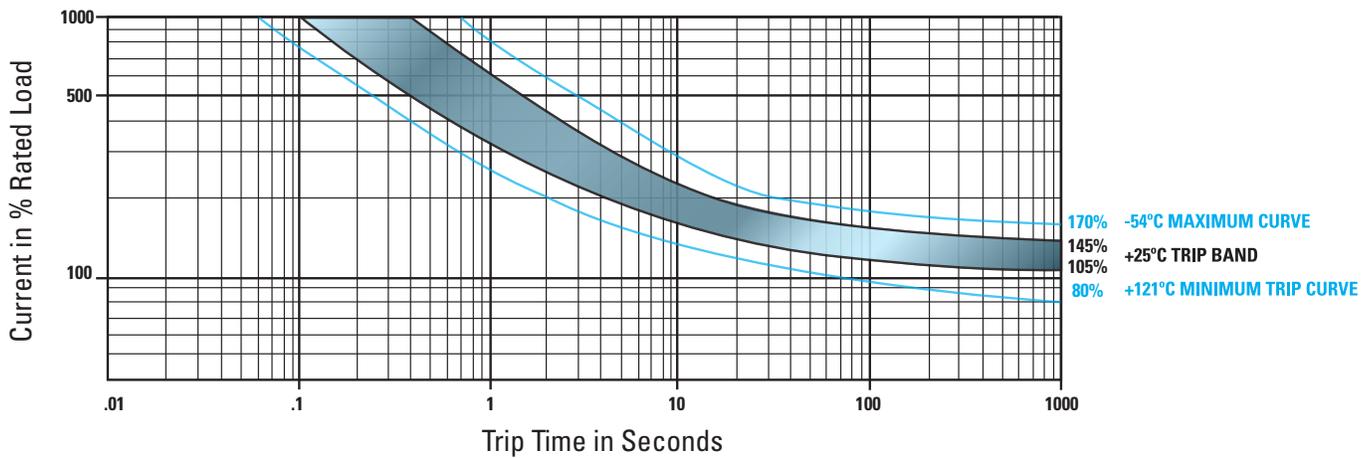
- Explosion-proof device
- UL listed
- 1 to 35 amps ratings
- High shock and vibration resistance
- Trip-free operation
- Miniature size, lightweight
- Ambient compensated
- Rated to 75VDC and 250VAC, 60Hz
- High interrupt capacity

### DESCRIPTION

The Klixon single pole 2EP series of commercial circuit breakers offers a unique combination of miniature size and weight (less than 22 g) with high shock and vibration resistance. This thermal circuit breaker design can minimize nuisance tripping while offering a high short circuit capacity, and low voltage drop levels. The design offers trip-free operation so that it can not be held closed against an overload. The push-pull actuation minimizes accidental tripping while a white band offers visual trip indication. These features combine to make this solution especially well suited for industrial equipment, radars, medical and dental equipment, electronic control systems, telecom equipment, power supplies and test equipment.

PERFORMANCE CHARACTERISTICS	
Interrupt Current Capacity	1 to 35 amps : 3,500 amps @ 75 VDC 1 to 35 amps : 1,000 amps @ 250 VAC, 60 Hz
Vibration Resistance	10G minimum, 50 - 500 Hz
Mechanical Shock Resistance	Exceeds 50G's
Explosion Proof	While interrupting rupture currents
Endurance	<i>250 VAC / 75 VDC</i> 6,000 cycles resistive load  <i>120VAC 400Hz</i> 2,500 cycles inductive and 6,000 resistive load  <i>30VDC</i> 2,500 cycles inductive load and 6,000 resistive load  10,000 cycles mechanical no load
Overload Cycling	Minimum 100 cycles @ 200% rated current
Acceleration	Exceeds 10G's
Weight	22.0 gm max (including mounting hardware)

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

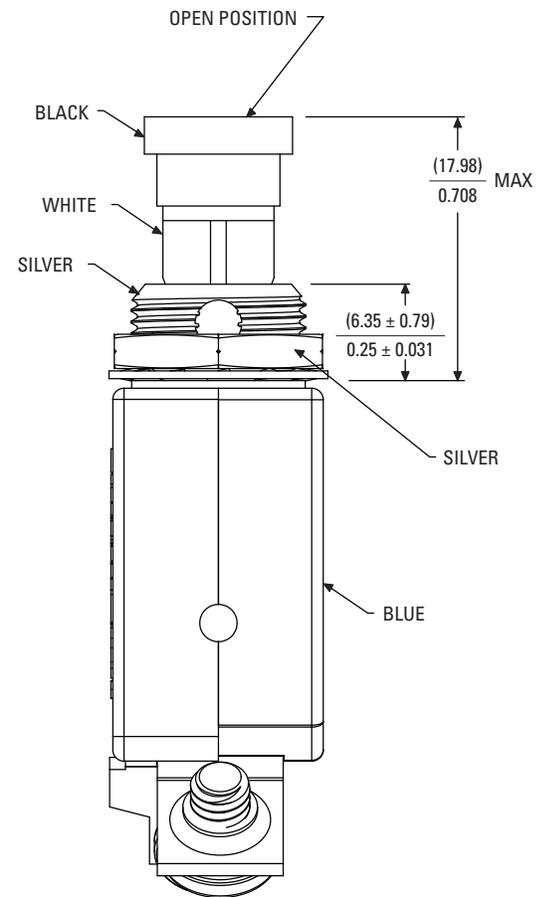
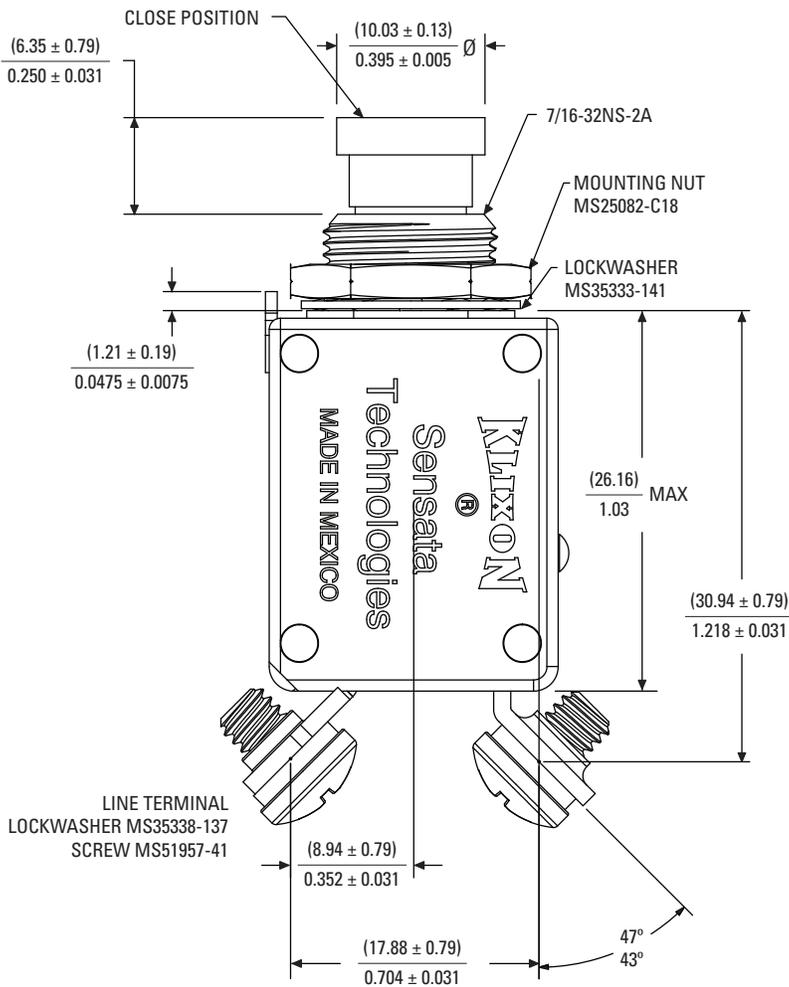
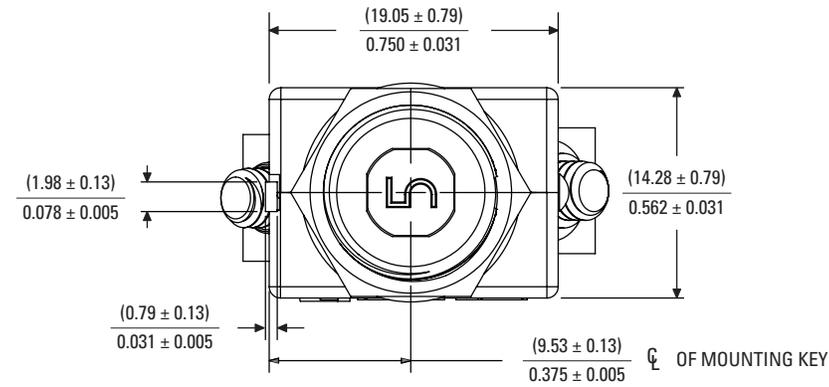


MAX VOLTAGE DROP @ NOMINAL RATED CURRENT	
Amp Rating	Max Drop
1 amps	1.10 volts max
2 amps	0.70 volts max
2.5 amps	0.50 volts max
3 amps	0.40 volts max
4 amps	0.45 volts max
5 amps	0.35 volts max
7.5 amps	0.30 volts max
10 amps	0.28 volts max
15 amps	0.25 volts max
20 amps	0.25 volts max
25 amps	0.20 volts max
30 amps	0.15 volts max
35 amps	0.15 volts max

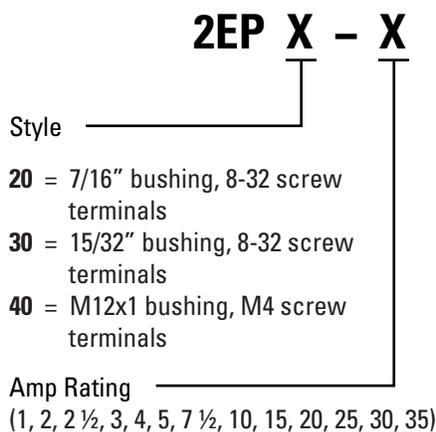
CALIBRATION					
TEMP °C / °F	MIN ULT TRIP	MAX ULT TRIP	Trip Time in Seconds		
			200%	500%	1000%
+25 / +77	105%	145%	4 to 16	.4 to 1.6	.10 to .40
-54 / -65	105%	170%	7 to 35	.6 to 3.0	.15 to .70
+121 / 250	80%	150%	2 to 13	.25 to 1.0	.06 to .25

RUPTURE		
Amp Rating	Voltage Rating	Rupture Rating
1 to 15 amps	120 VAC, 400 Hz	2,500 amps
1 to 20 amps	28 VDC	6,000 amps
20 amps	120 VAC, 400 Hz	2,000 amps
25 to 35 amps	28 VDC	1,625 amps
25 to 35 amps	120 VAC, 400Hz	1,800 amps

## DIMENSIONAL DRAWINGS: 2EP20



## DIMENSIONAL DRAWINGS



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