Sensata Technologies

# KLIXON® | PS Neck Mounting Series (PSM-XX-N)

## 2 to 35 Amp Precision Thermal Circuit Breaker

### FEATURES

- 30VDC, 2 to 35 Amps
- Manual reset neck mount circuit breaker

### DESCRIPTION

The KLIXON® PSM-XX-N series of breakers are designed to interrupt short circuits or overloads and combines trip-free protection with fast response time. The PSM-XX-N series thermal breaker is ideal for commercial and military vehicle equipment where precise ultimate trip characteristics are required.

### ORDERING INFORMATION

**X – X – N**

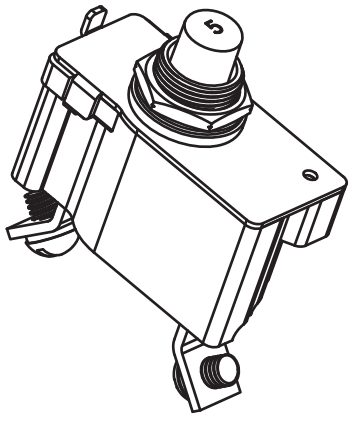
Configuration
PSM = Manual, sealed

Amp Rating
(2, 3, 4, 5, 6, 8, 10, 12.5, 15 17.5, 20, 25, 30, 35)

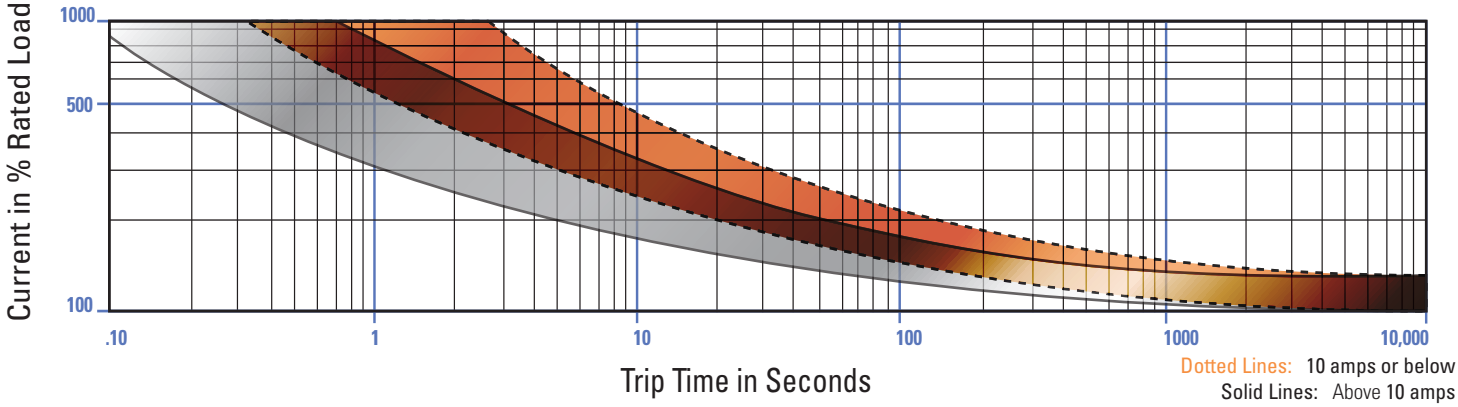
Neck Mount
N = neck mount

### PERFORMANCE CHARACTERISTICS

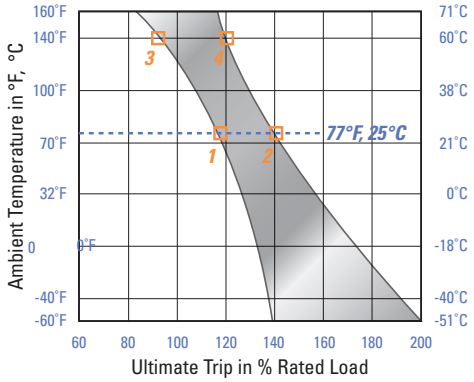
| | |
|---|---|
| Calibration : 200% rated current, 77°F (25°C) | 2 to 10 amps : 20 to 150 seconds<br>12.5 to 35 amps : 8 to 50 seconds |
| Ultimate Trip At 77°F (25°C) | Must hold 100%, Must trip 138% |
| Endurance | Per SAE J553, 500 cycles @ 200% |
| Interrupt Current Capacity | Per SAE J553 |
| Vibration | 10G MIL-STD-202 Method 204, Condition A |
| Mechanical Shock | MIL-STD-202, Method 213, Condition C, 100G |
| Dielectric Strength | MIL-STD-202, Method 301, 1500VAC min |
| Insulation Resistance | MIL-STD 202, Method 302, Condition B, 100 MΩ min |
| Weight | PSM-N : 35 grams max |



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



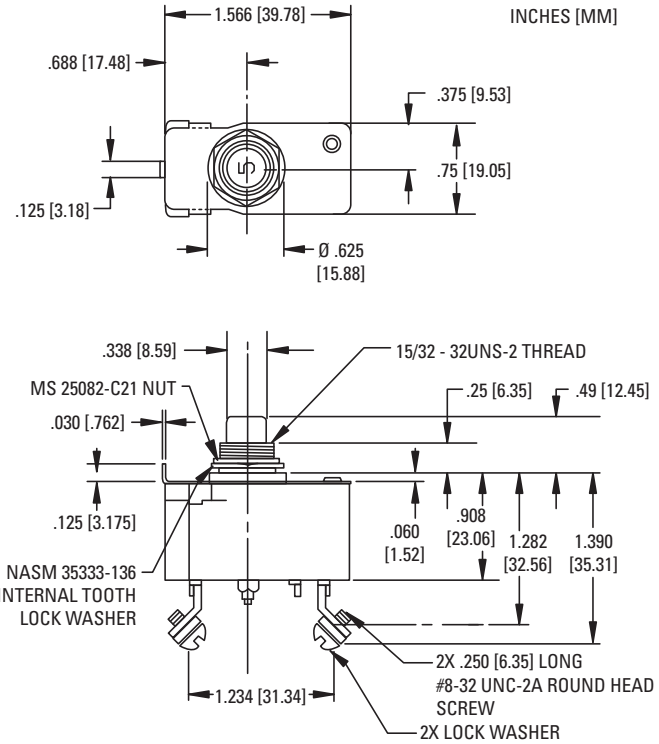

## DERATING CURVE



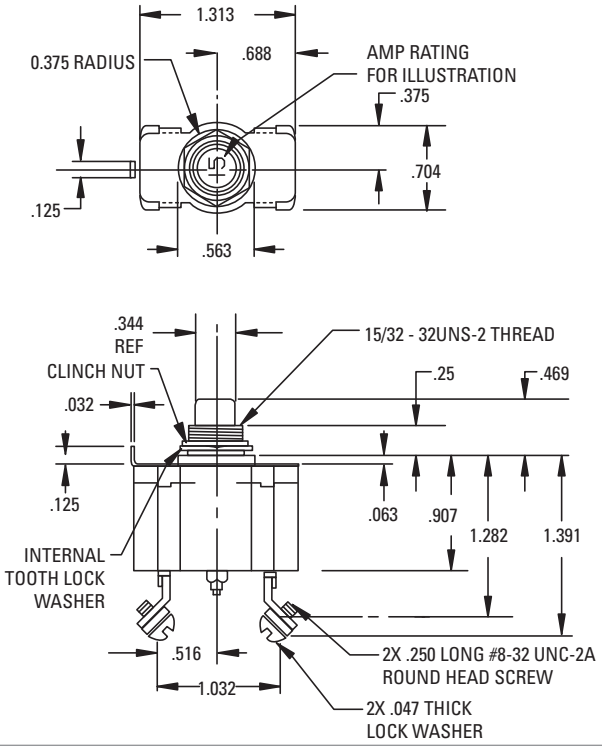

Performance characteristics are based on room temperature (77°F, 25°C). Consult Derating curve for ambient temperatures significantly higher or lower than standard room temperature.

Example: At 77°F (25°C) the device is calibrated to hold at 110% of rated current (1) and trip at 138% of rated current (2). At 140°F (60°C), the same device will hold at approximately 92% of rated current (3), and trip at approximately 120% of rated current (4).

## **DIMENSIONS** - PSM-XX-N (10 amps and less)




## **DIMENSIONS** - PSM-XX-N (over 10 amps)

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