


# KLIXON® | Large Frame PD Series (PDLA, PDLM)

## 35 to 150 Amp Precision Thermal Circuit Breaker

## FEATURES

- 30VDC, 35 to 150 Amps
- Sealed assemblies, available in manual and automatic reset options
- Ignition protected & CCC certified
- PDLM meets CID A-A-55571/04 specifications
- PDLA meets CID A-A-55571/07 specifications

## DESCRIPTION

The KLIXON® PDL series thermal breakers are designed to meet the harshest environmental requirements. The PDL series breakers are weatherproof for protection against moisture, dust, grease, fuel vapors, and other harsh environments. The PDL series of breakers are designed to interrupt short circuits or overloads and combine trip-free protection with fast response time. The PDL series of breakers can be used in commercial and military vehicles and equipment where more precise ultimate trip characteristics are required.

## ORDERING INFORMATION

**X – X – X**

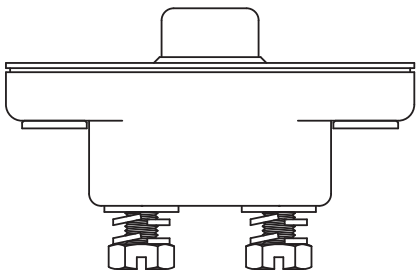
Configuration
PDLA = Auto, sealed
PDLM = Manual, sealed

Amp Rating
(35, 40, 45, 50, 60, 70, 80, 90, 105, 120, 135, 150)

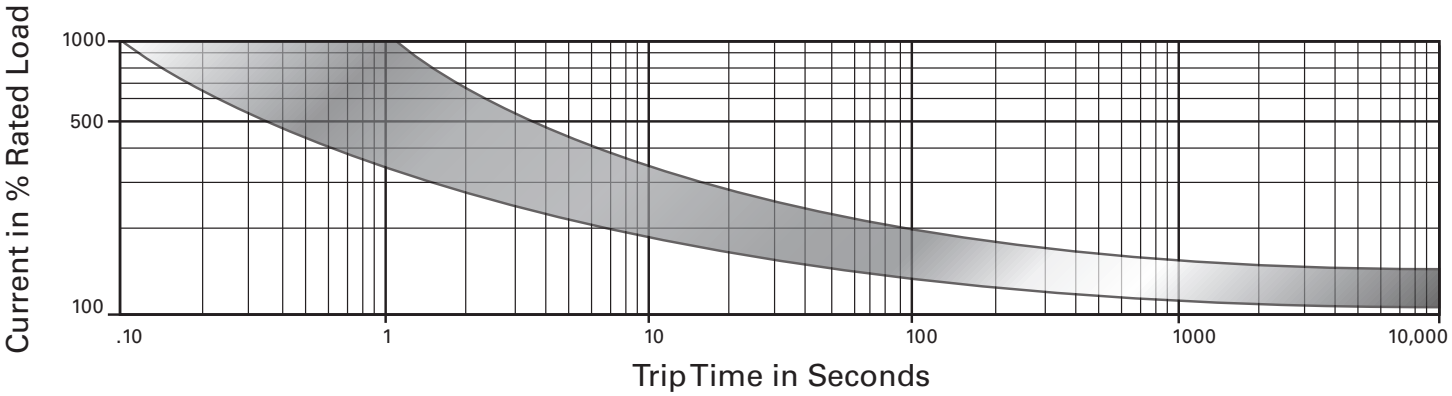
Mounting Nuts
= leave blank for none
I = include optional mounting nuts

## PERFORMANCE CHARACTERISTICS

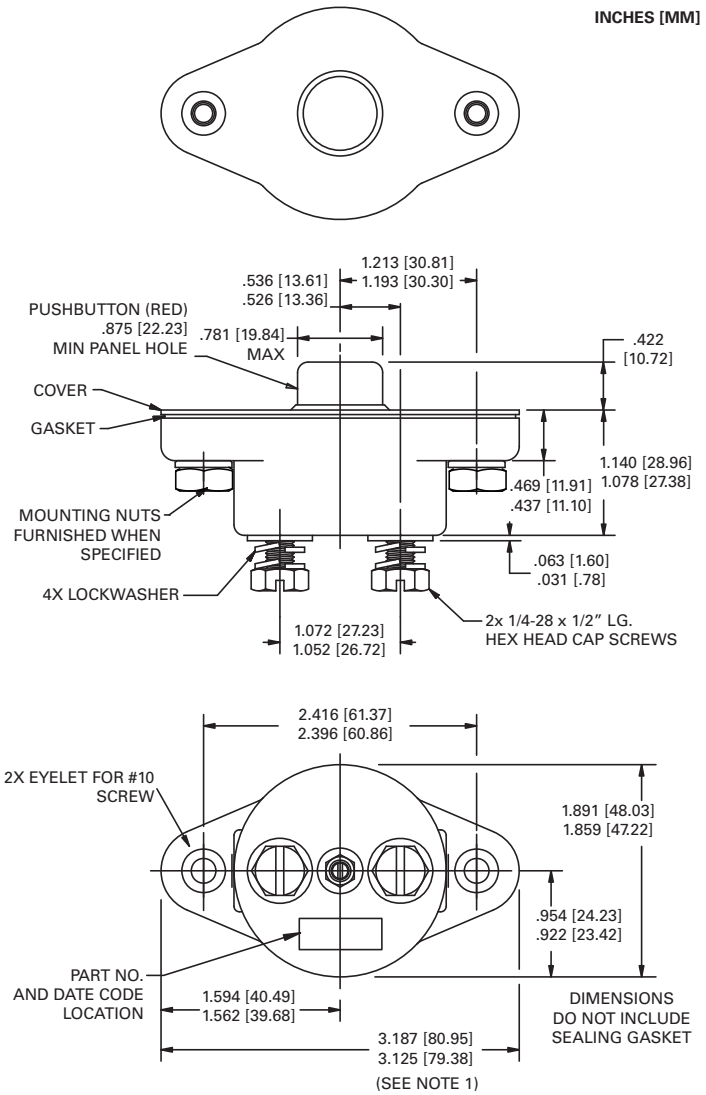
| | |
|---|---|
| Calibration : 200% rated current, 77°F (25°C) | 8 to 100 seconds |
| Ultimate Trip At 77°F (25°C) | Must hold 100%, Must trip 138% |
| Endurance | Automatic: 2,000 cycles @ 200% rated current<br>Manual: 500 cycles @ 200% rated current |
| Interrupt Current Capacity | Per SAE J1625 and ABYC E-11 |
| Vibration | 10G MIL-STD-202 Method 204, Condition A |
| Mechanical Shock | 100G MIL-STD-202 Method 213, Condition C |
| Dielectric Strength | MIL-STD-202 Method 301, 1500VAC min |
| Insulation Resistance | MIL-STD-202 Method 302, Condition B,<br>100 MΩ min |
| Weight (with mounting nuts) | PDLM : 129 grams max<br>PDLA : 116 grams max |



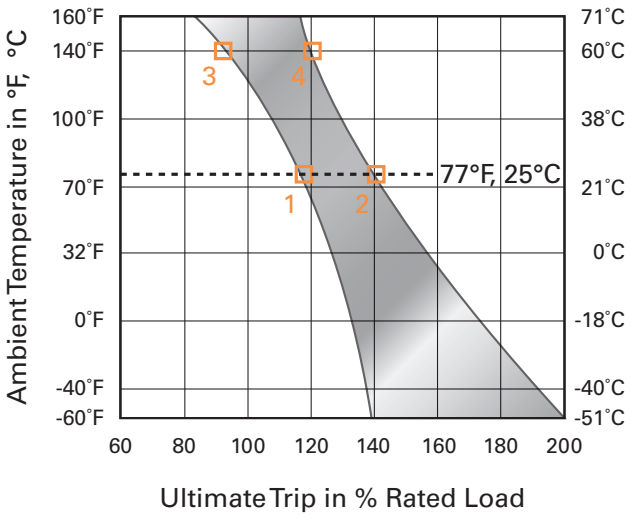
## TRIP CURVE - Approximate Time, Current Characteristics At 77°F (25°C)




## DIMENSIONS - PDLM




## 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).

## BUSINESS CENTER

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Sensata Technologies

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