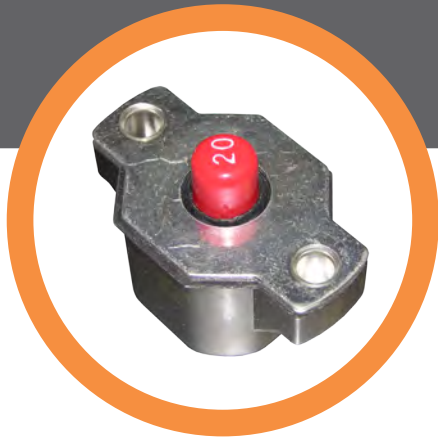




## KLIXON® | Small Frame PD Series (PDA, PDM)

### 2 to 40 Amp Precision Thermal Circuit Breaker

#### FEATURES

- 30VDC or 120VAC, 2 to 40 Amps
- Sealed assemblies, available in manual and automatic reset options
- Ignition protected
- UL Recognized E36869

#### DESCRIPTION

The KLIXON® PD series thermal breakers are designed to protect wiring and meet the harshest environmental requirements. The PD series are weatherproof sealed for protection against moisture, dust, grease, fuel vapors and other harsh environments. The PD series breakers are compact, lightweight and designed to interrupt short circuits or overloads, and combine trip-free protection with fast response time. Typical applications are protection of wire and cable of accessory circuits, equipment and battery protection in construction and off-road equipment, marine, recreational vehicles (RV's), mining, agricultural equipment and electric (hybrid) vehicles.

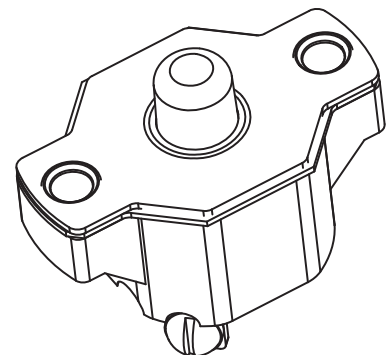
The PD series is used in commercial and military applications.

#### ORDERING INFORMATION

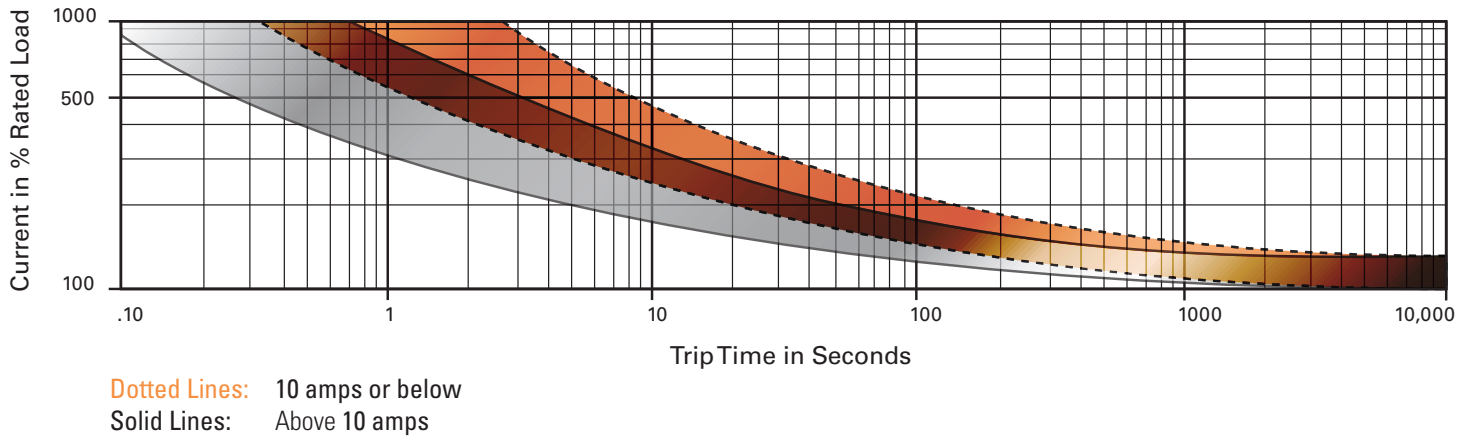
|               |                                                            |
|---------------|------------------------------------------------------------|
|               | <b>X - X - X</b>                                           |
| Configuration | <div> <div></div> <div></div> <div></div> </div>           |
| PDM           | = Manual, sealed                                           |
| PDA           | = Auto, sealed                                             |
| Amp Rating    | <div> <div></div> <div></div> <div></div> </div>           |
|               | (2, 3, 4, 5, 6, 8, 10, 12.5, 15, 17.5, 20, 25, 30, 35, 40) |
| Mounting Nuts | <div> <div></div> <div></div> </div>                       |
|               | = leave blank for none                                     |
|               | I = include optional mounting nuts                         |

#### PERFORMANCE CHARACTERISTICS

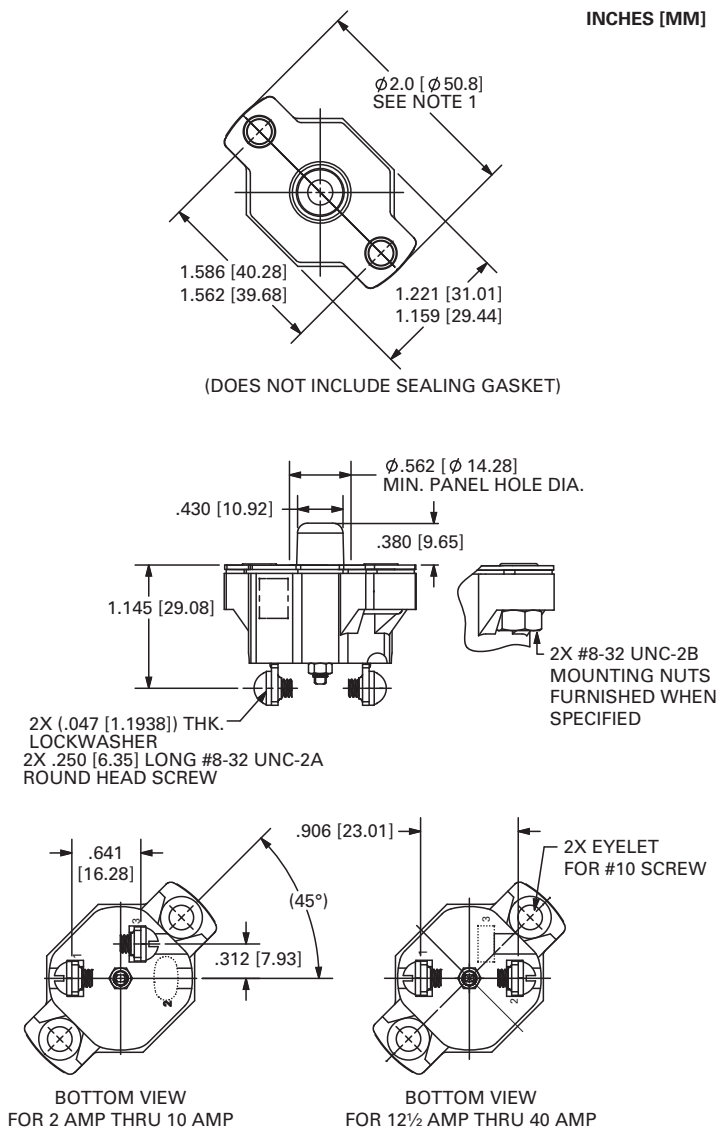
|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Calibration :                   | 2 to 10 amps : 20 to 150 seconds                |
| 200% rated current, 77°F (25°C) | 12.5 to 40 amps : 8 to 50 seconds               |
| Ultimate Trip at 77°F (25°C)    | Must hold 110%, must trip 138%                  |
| Endurance                       | Per SAE J553                                    |
| Interrupt Current Capacity      | Per SAE J553 and ABYC E-11                      |
| Vibration                       | 10G MIL-STD-202 Method 204, Condition A         |
| Mechanical Shock                | MIL-STD-202 Method 213, Condition C, 100G       |
| Salt Spray                      | MIL-STD-202 Method 101D                         |
| Dielectric Strength             | MIL-STD-202 Method 301, 1500VAC min             |
| Insulation Resistance           | MIL-STD-202 Method 302, Condition B, 100 MΩ min |
| Weight (with mounting nuts)     | PDM : 48 grams max<br>PDA : 41 grams max        |



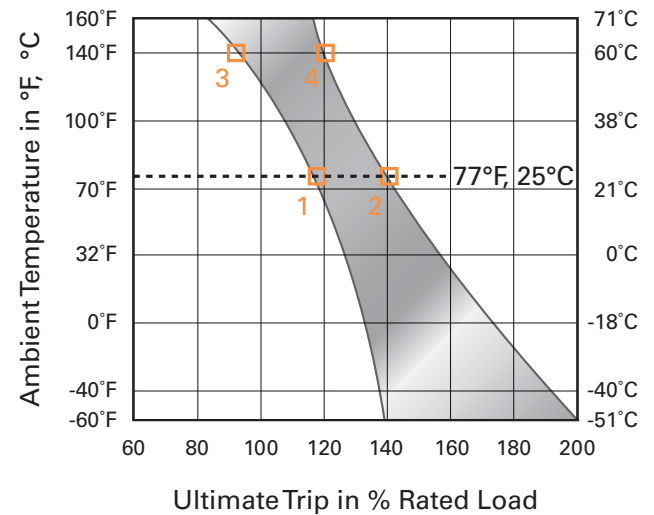
## TRIP CURVE - Approximate Time, Current Characteristics At 77°F (25°C)



## DIMENSIONS - PDM



## 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).

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