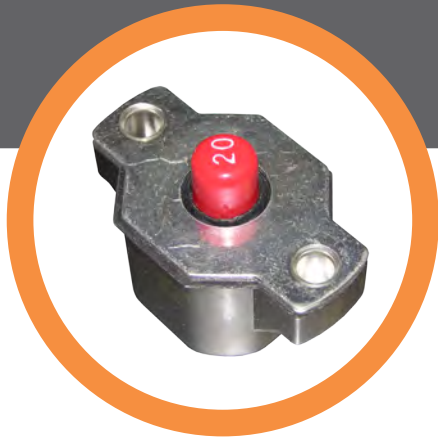




## KLIXON® | Small Frame PD Series (PDA, PDM)

### 2 to 40 Amp Precision Thermal Circuit Breaker

#### FEATURES

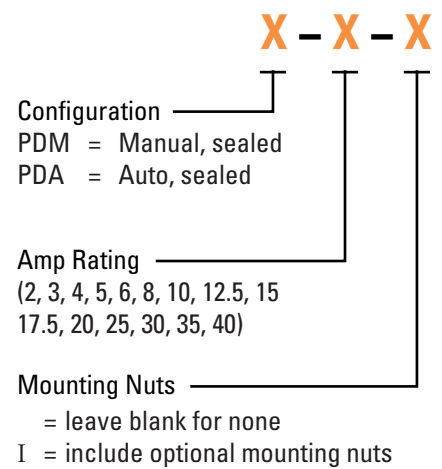
- 30VDC or 120VAC, 2 to 40 Amps
- Sealed assemblies, available in manual and automatic reset options
- Ignition protected
- UL Recognized E36869

#### 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.

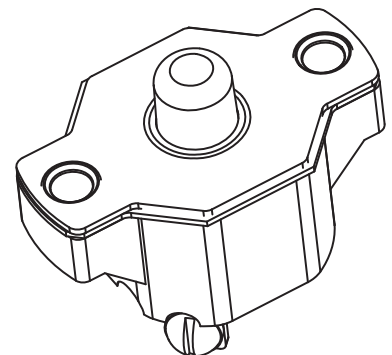
The PD series is used in commercial and military applications.

#### ORDERING INFORMATION

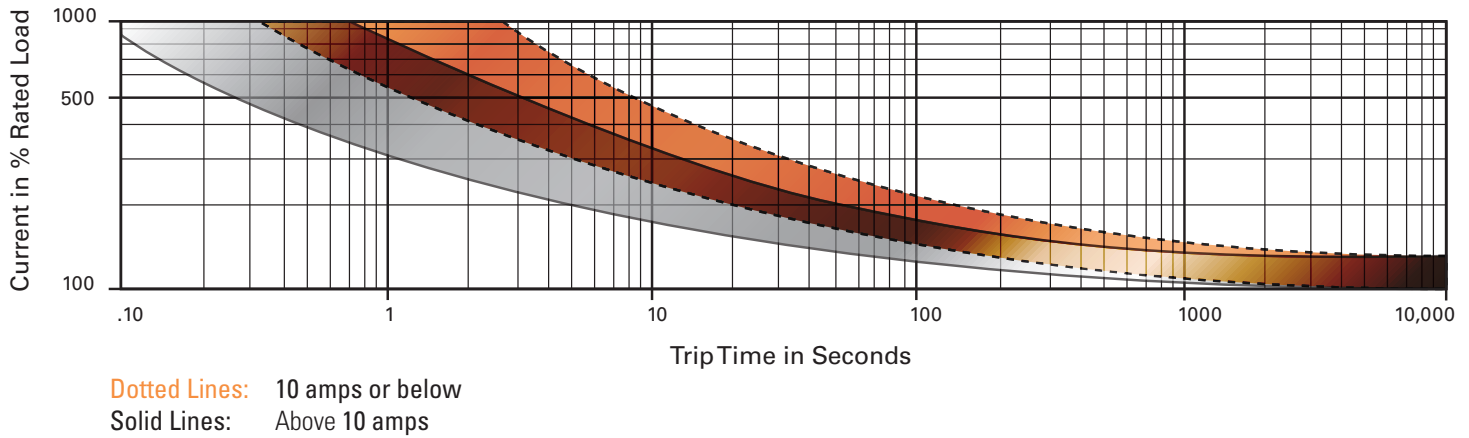


#### PERFORMANCE CHARACTERISTICS

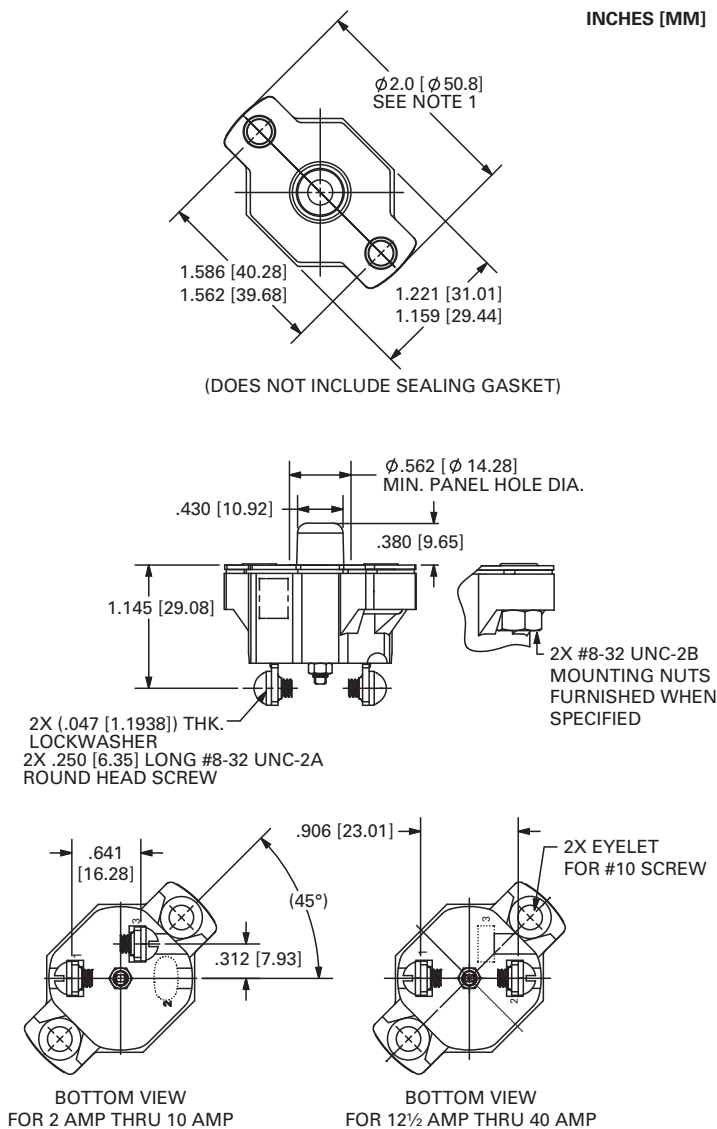
|                                                  |                                                                       |
|--------------------------------------------------|-----------------------------------------------------------------------|
| Calibration :<br>200% rated current, 77°F (25°C) | 2 to 10 amps : 20 to 150 seconds<br>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,<br>100 MΩ min                    |
| Weight (with mounting nuts)                      | PDM : 48 grams max<br>PDA : 41 grams max                              |



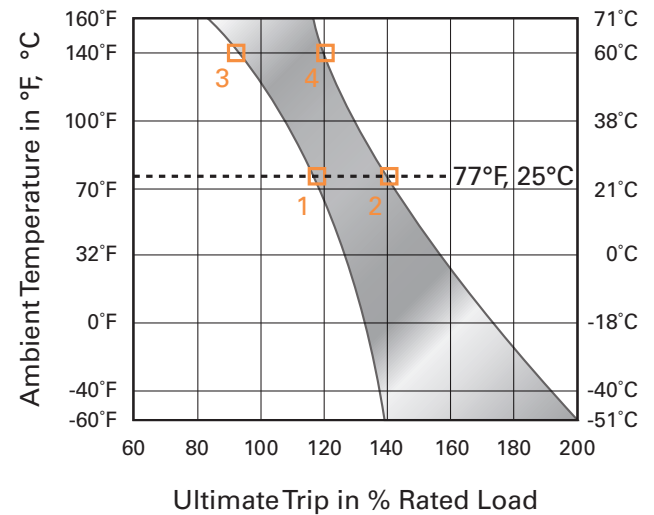
## TRIP CURVE - Approximate Time, Current Characteristics At 77°F (25°C)



## 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).

<http://www.sensata.com/>



The World Depends on Sensors and Controls

## BUSINESS CENTER

**Sensata Technologies Inc.**  
529 Pleasant Street  
Attleboro, MA 02703, USA  
Phone: +1 508-236-3800  
Fax: +1 508-236-2349

©2013 Sensata Technologies, Inc. All rights reserved worldwide. Printed in USA, revised April 2013.

Important Notice: Sensata Technologies reserves the right to make changes to, or to discontinue, any product or service identified in this publication without notice. Before placing orders, users should obtain the latest version of the relevant information to verify that the information being relied upon is current.

Sensata Technologies assumes no responsibility for customers' product designs or applications. Users must determine the suitability of the Sensata device described in this publication for their application, including the level of reliability required. Many factors beyond Sensata's control can affect the use and performance of a Sensata product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. As these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the Sensata product to determine whether it is fit for a particular purpose and suitable for the user's application.

Sensata Technologies products are sold subject to Sensata's Terms and Conditions of Sale which can be found at: [www.sensata.com/terms.htm](http://www.sensata.com/terms.htm)