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

X – X – X

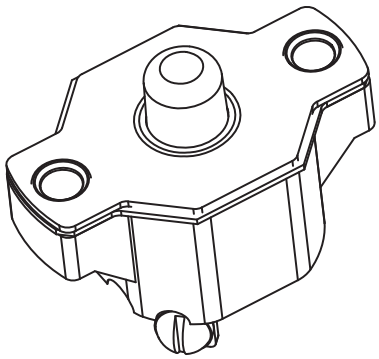
Configuration
PDM = Manual, sealed
PDA = Auto, sealed

Amp Rating
(2, 3, 4, 5, 6, 8, 10, 12.5, 15
17.5, 20, 25, 30, 35, 40)

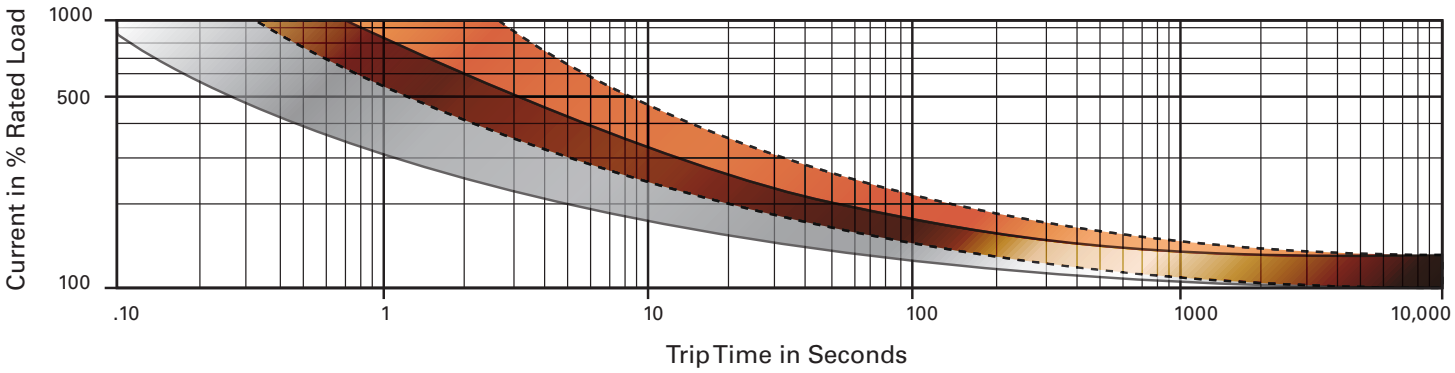
Mounting Nuts
= leave blank for none
I = include optional mounting nuts

PERFORMANCE CHARACTERISTICS

Calibration : 200% rated current, 77°F (25°C)	2 to 10 amps : 20 to 150 seconds 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 PDA : 41 grams max



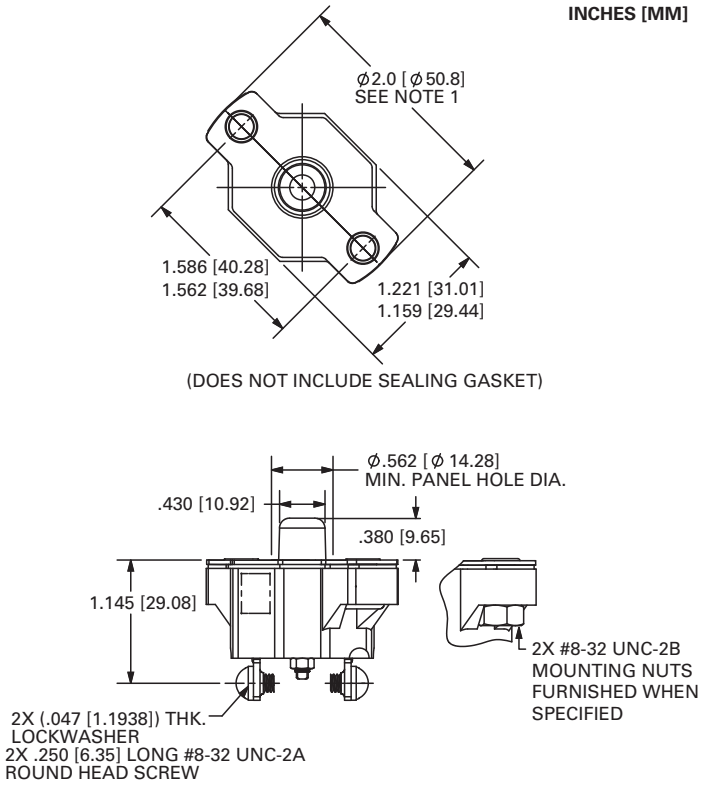
TRIP CURVE - Approximate Time, Current Characteristics At 77°F (25°C)



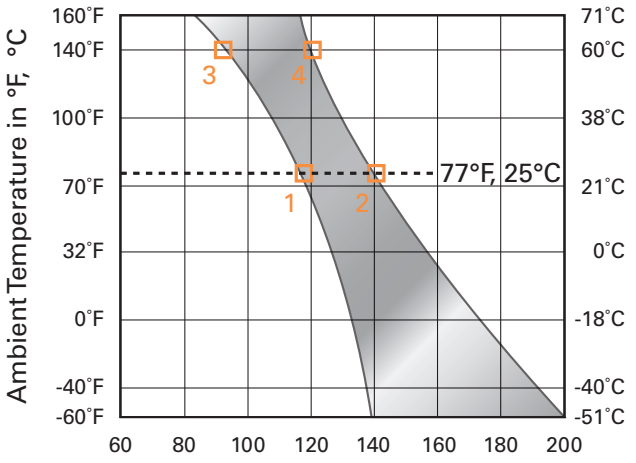
Dotted Lines: 10 amps or below
Solid Lines: Above 10 amps

DIMENSIONS - PDM

INCHES [MM]



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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