

LARGE FRAME PDL SERIES (PDLA, PDLM)

35 TO 150 AMP PRECISION THERMAL CIRCUIT BREAKER

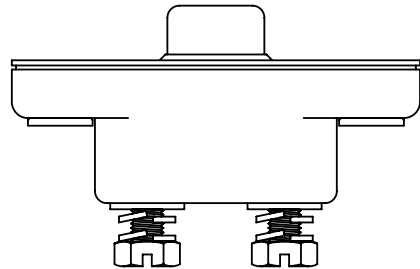
Introduction

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.



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



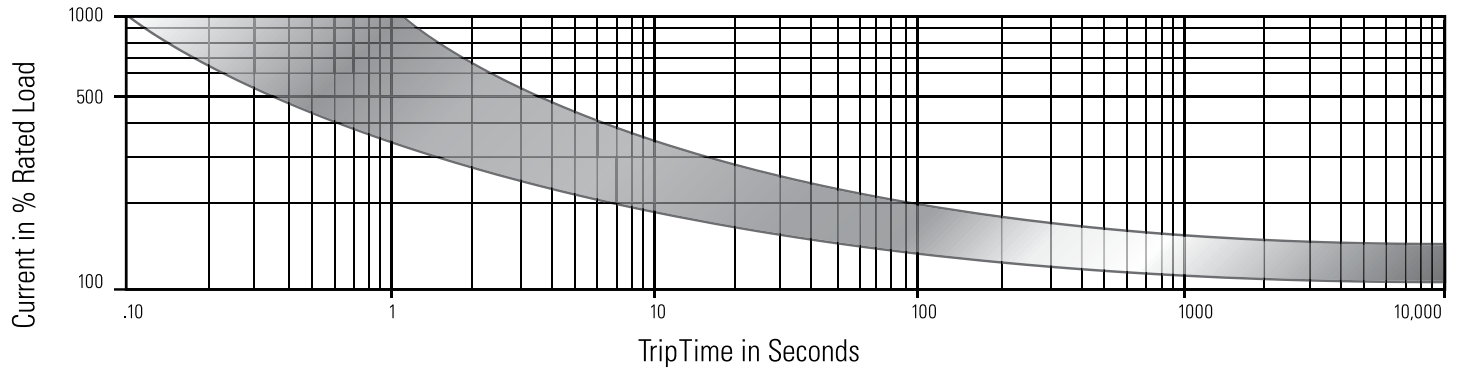
SPECIFICATIONS

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 Manual: 500 cycles @ 200% rated current
Interrupt Current Capacity	3,000A @ 28 VDC
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, 100 MΩ min
Weight (with mounting nuts)	PDLM : 129 grams max PDLA : 116 grams max



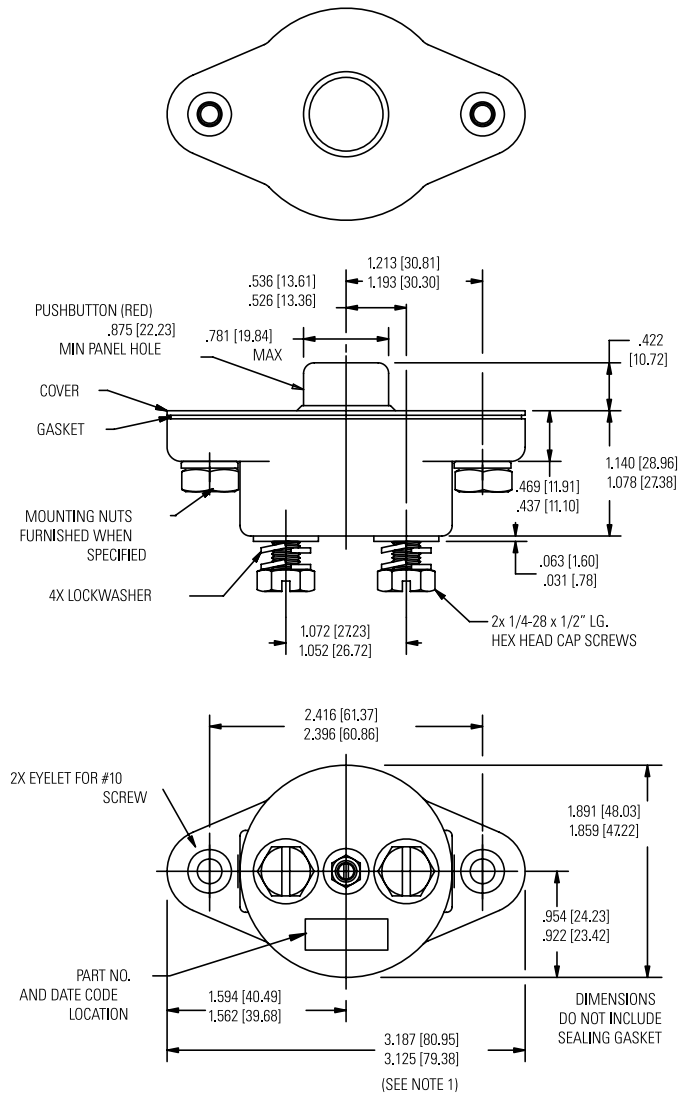
TRIP CURVE

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



DIMENSIONS

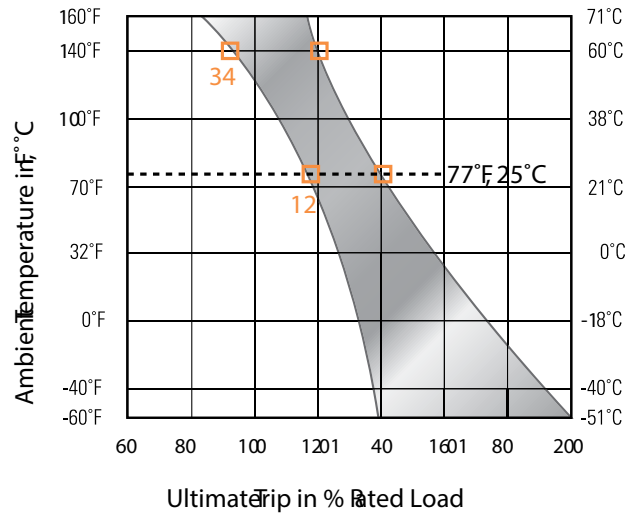
All dimensions are in inches [mm]





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).



ORDERING OPTIONS

Example : PDLA-35-

Configuration PDLA - 35 -

PDLA: Auto, sealed
PDLM: Manual, sealed

Amp Rating

35	60	105
40	70	120
45	80	135
50	90	150

Mounting Nuts

: Leave blank for none
I: include optional mounting nuts

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