MX33 Series

AUTO RESET CIRCUIT PROTECTOR

TRIMAX Circuit Protectors



MX33 Series are low profile automatic reset circuit protectors suitable for commercial, appliance and automotive applications.

The MX33 utilizes a "snap-action" bi-metal element to sense overload. When an overload reaches the calibrated trip point of the bi-metal element, the contacts snap open, disconnecting the load. When the bi-metal strip cools, the breaker automatically resets.

Dual screw mount connections eliminate rotation or shifting during operation.

EXAMPLES OF MX33 SERIES APPLICATIONS include:

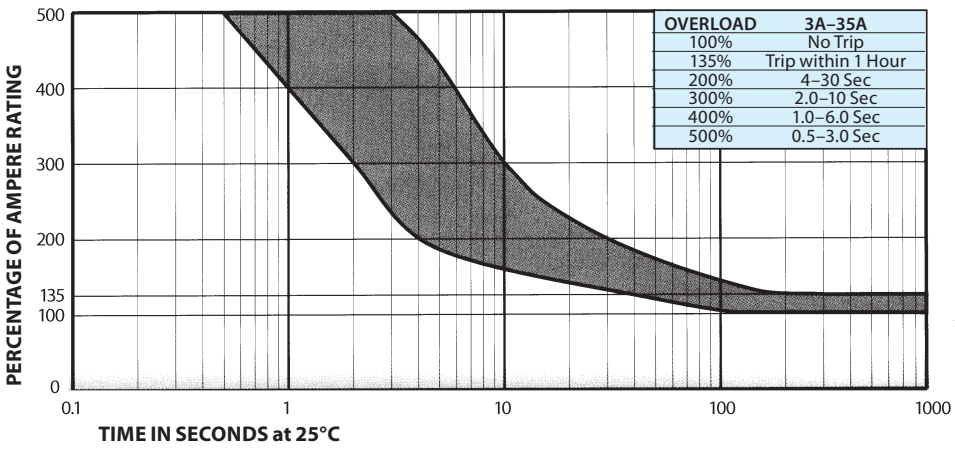
- **Automotive Applications**
- **Household Appliances**
- **Lawn and Garden Equipment**
- **Battery Chargers**
- **Generators**
- **Medical Equipment**
- **Office Equipment**

…and many more

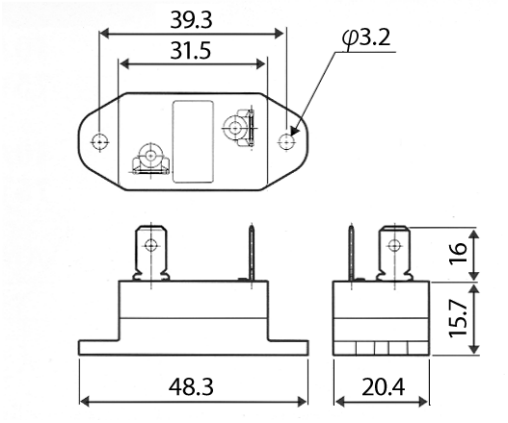
SPECIFICATIONS

- **Trip Time vs. Overload at 25°C**
  At 100% of rated current: no trip
  At 135% of rated current: trip within 1 hour
  At 200% of rated current: trip within 4–30 seconds
- **Current and Voltage Ratings**
  3A–35A, 125/250VAC / 12/24VDC
- **Interrupt Capacity**
  100A at 24VDC
  500A at 125VAC
- **Dielectric Strength**
  1800VAC / 1 minute
- **Insulation Resistance**
  > 100MΩ
- **IEC-934 Method of Tripping**
  "TO" = Thermal

TRIP TIME CURVE



DIMENSIONS in mm



DERATING FACTORS for AMBIENT TEMPERATURE

TEMP	3A–11A	12A–35A
50°C	x 1.75	x 2.00
45°C	x 1.54	x 1.67
40°C	x 1.22	x 1.33
35°C	x 1.11	x 1.11
30°C	x 1.04	x 1.04
25°C	x 1.00	x 1.00
20°C	x 0.95	x 0.95
15°C	x 0.91	x 0.91
10°C	x 0.87	x 0.87
5°C	x 0.83	x 0.83

MAXIMUM INTERNAL RESISTANCE

3.0A–7.0A	0.120Ω
7.1A–10A	0.100Ω
10.1A–12A	0.075Ω
12.1A–14A	0.050Ω
14.1A–16A	0.030Ω
16.1A–20A	0.025Ω
20.1A–25A	0.020Ω
25.1A–35A	0.015Ω

OPTIONS SELECTION

Series	Amps select by number	Volts select by letter
MX33 Auto Reset Circuit Protectors	**030** 3A **040** 4A **050** 5A **100** 10A **150** 15A **200** 20A **300** 30A	**A** 125/250VAC **B** 12/24VDC

Example: MX33 | 030 | A

MX33, 3Amps, 125/250VoltsAC

TRIMAX Circuit Protectors
A division of Pelco Component Technologies
2747 Route 20 East, Cazenovia, NY 13035
315-655-8476 ■ www.trimaxcb.com