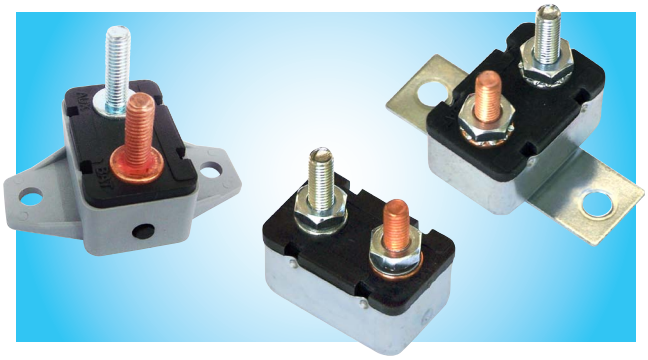
MX31 Series

MANUAL or AUTO RESET CIRCUIT PROTECTOR

TRIMAX Circuit Protectors



MX31 Series are ruggedly designed automatic and manual reset circuit protectors for demanding applications within the automotive, marine and lawn-and-garden industries, to name just a few.

The MX31 is a low-voltage breaker which operates on the "snap-action" bi-metallic element principle. When an overload reaches the calibrated trip point of the bi-metal element, the contacts snap open, disconnecting the load.

EXAMPLES OF MX31 SERIES APPLICATIONS include:

- **Boats and Marine Equipment**
- **Road and Construction Equipment**
- **Fire and Emergency Equipment**
- **Lawn and Garden Equipment**
- **Recreational Vehicles**
- **Battery Chargers**
- **Buses**
- **Trolling Motors**
- **Trucks**

…and many more

The reset button on the manual version pops out, thus providing a visual trip indication, and the circuit remains disconnected until manually reset.

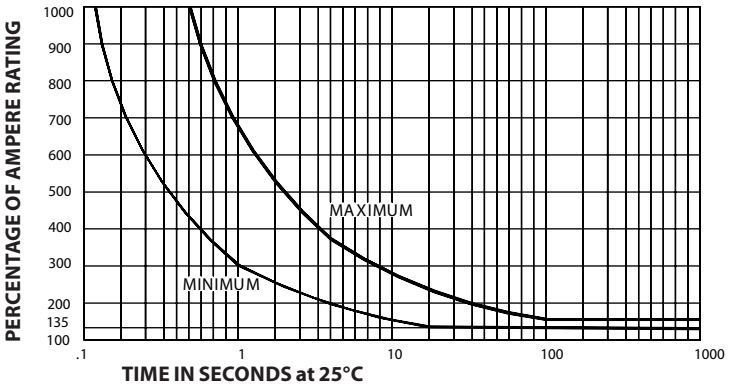
The auto reset version resets itself without visual indication.

Multiple mounting options are available, offering a wide range of applications.

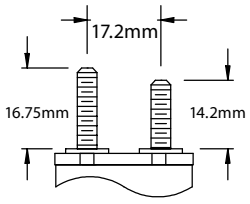
SPECIFICATIONS

- **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 5 to 35 seconds
- **Current and Voltage Ratings**
  5A–50 A, 12VDC/24VDC
- **Interrupt Capacity**
  5A–10A / 24VDC, 100A
  11A–15A / 24VDC, 150A
  16A–20A / 24VDC, 200A
  21A–30A / 24VDC, 300A
  31A–40A / 24VDC, 400A
  41A–50A / 24VDC, 500A
- **Resettable Overload Capacity**
  10 times rated current
- **Dielectric Strength**
  1800VAC / 1 minute
- **Insulation Resistance**
  > 100MΩ
- **Reference Documents**
  SAE Standard J553 (Type I III)
- **Operating Temperature**
  -40°C to 85°C
- **Storage Temperature**
  -40°C to 125°C

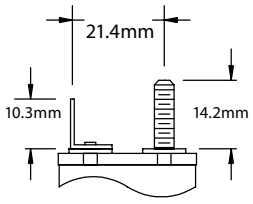
TRIP TIME CURVE



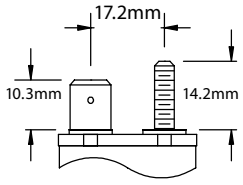
DIMENSIONS in mm



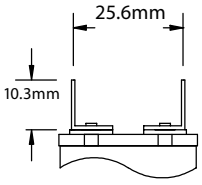
1 Two 10-32 Studs; .66 (aux); .56 (bat)



2 One .250 QC (aux); One 10-32 Stud (bat)

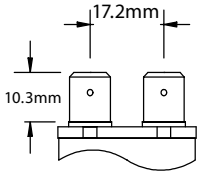


3 Double .250 QC (aux); One 10-32 Stud (bat)

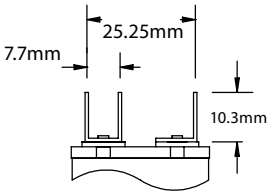


4 Two .250 QC; (aux & bat)

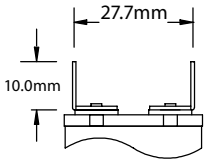
TERMINAL OPTIONS



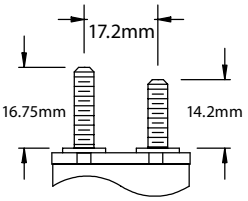
5 Two Double .250 QC (aux & bat)



6 Double .250 QC (aux); Single .250 QC (bat)



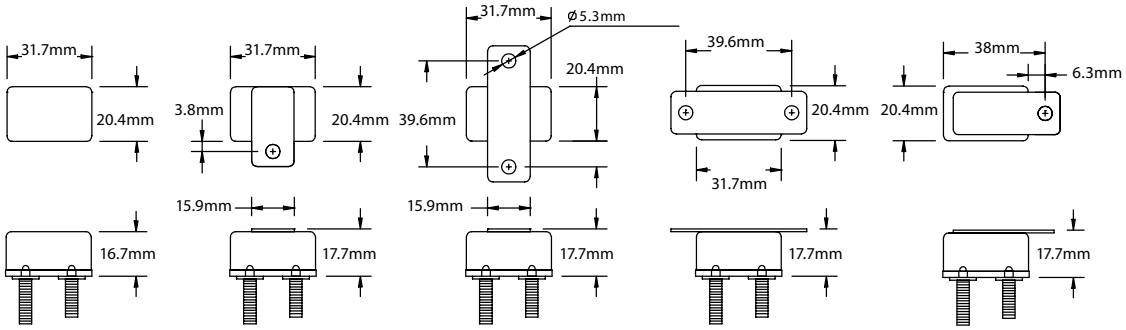
7 Two .187 QC (aux & bat)



8 Two 10-32 Studs; .66 (aux); .56 (bat)

BRACKET OPTIONS

Metal brackets shown.
Consult factory for plastic bracket dimensions.



No Bracket | 01 Bracket | 02 Bracket | 03 Bracket | 04 Bracket

OPTIONS SELECTION

Series	Amps select by number	Volts select by letter	Terminals select by number	Actuator select by letter	Mounting select by number
MX31 Manual or Auto Reset Circuit Protectors	**050** 5A : **100** 10A : **150** 15A : **200** 20A : **500** 50A	**A** 12/24VDC	**1** Two #10-32 Studs (copper/zinc) **2** One .250 QC / One #10-32 Stud **3** Double .250 QC / One #10-32 Stud **4** Two .250 QC **5** Two Double .250 QC **6** Double .250 QC / Single .250 QC **7** Two .187 QC **8** Two #10-32 Zinc Studs	**A** Automatic Reset **B** Manual Reset	**0** No Bracket **1** 01 Bracket **2** 02 Bracket **3** 03 Bracket **4** 04 Bracket **5** Tie Wrap **6** Special

Base Material select by letter
A Metal
B Plastic

Example: MX31 | 150 | A | 5 | B | 0 | B

MX31, 15Amps, 12/24VoltsDC,
Two double .250 QC terminals, Manual reset, No bracket, Plastic base

TRIMAX Circuit Protectors
A division of Pelco Component Technologies

2747 Route 20 East, Cazenovia, NY 13035
315-655-8476 ■ www.trimaxcb.com