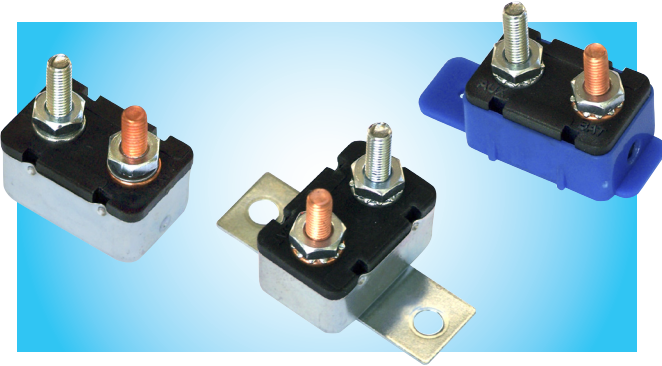


## MX31 Series

MANUAL or AUTO RESET CIRCUIT PROTECTOR



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-acting" bimetallic element principle.

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 can then be reset.

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

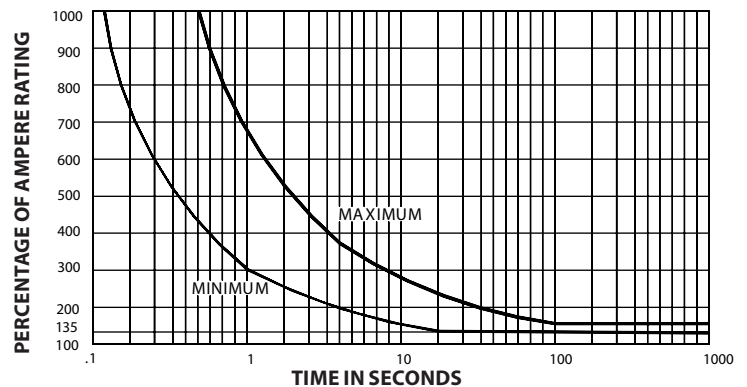
### EXAMPLES OF MX31 SERIES APPLICATIONS include:

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

## SPECIFICATIONS

- **Calibration at 25°C**  
Will continuously carry 100% of rated load.  
Will trip in less than one hour at 135% of rated load and within 5 to 35 seconds at 200% of rated load.
- **Current and Voltage Ratings**  
5 to 50 A, 250VAC.  
5 to 50 A, 12VDC/24VDC.
- **Interrupt Capacity**  
1000 A.
- **Resettable Overload Capacity**  
10 times rated current.
- **Dielectric Strength**  
1800VAC / 1 minute.
- **Contact Endurance Cycles**  
6 times rated current for 30 minutes.
- **Insulation Resistance**  
Not less than 100MΩ.
- **Reference Documents**  
SAE Standard J553 (Type I III).
- **Operating Temperature**  
-23°C to 65°C.
- **Storage Temperature**  
-29°C to +93°C.

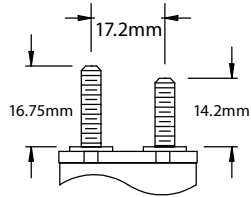
## TRIP TIME CURVE



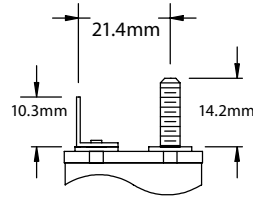
# MX31 Series

## MANUAL RESET CIRCUIT PROTECTORS

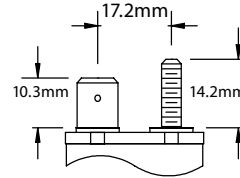
### DIMENSIONS in mm



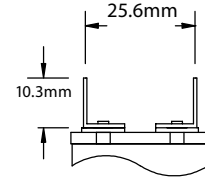
**1** Two 10-32 Studs;  
.66 (aux); .56 (bat)



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

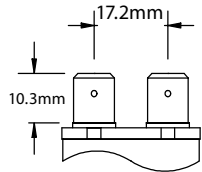


**3** Double .250 QC (aux);  
One 10-32 Stud (bat)

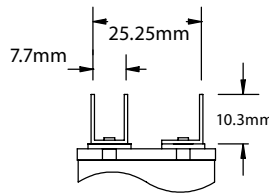


**4** Two .250 QC;  
(aux & bat)

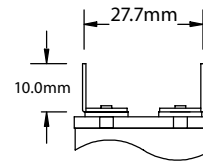
### TERMINAL OPTIONS



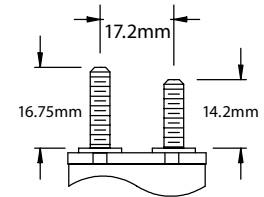
**5** Two Double .250 QC  
(aux & bat)



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

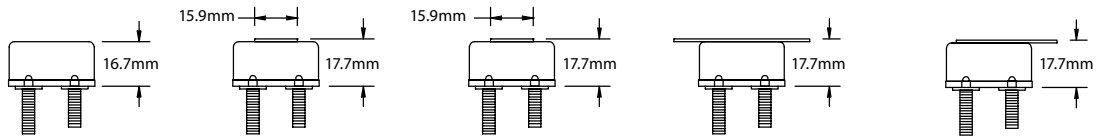
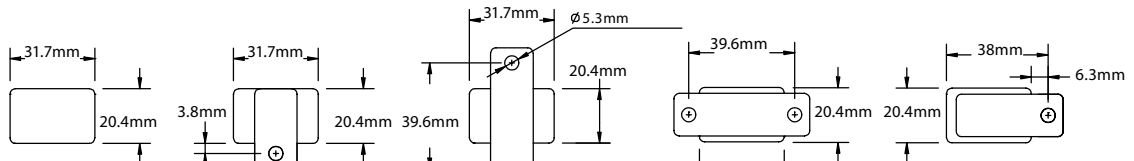


**7** Two .187 QC  
(aux & bat)



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

### BRACKET OPTIONS



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 Hardware select by number
<b>MX31</b>  Manual or Auto Reset Circuit Protectors	<b>050</b> 5A	<b>A</b> 12/24VDC / 250VAC	<b>1</b> Two 10/32 Studs (copper/zinc)	<b>A</b> Automatic Reset  <b>B</b> Manual Reset	<b>0</b> No Bracket
	<b>100</b> 10A		<b>2</b> One .250 QC / One 10/32 Stud		<b>1</b> 01 Bracket
	<b>150</b> 15A		<b>3</b> Double .250 QC / One 10/32 Stud		<b>2</b> 02 Bracket
	<b>200</b> 20A		<b>4</b> Two .250 QC		<b>3</b> 03 Bracket
	<b>500</b> 50A		<b>5</b> Two Double .250 QC		<b>4</b> 04 Bracket
			<b>6</b> Double .250 QC / Single .250 QC		<b>5</b> Tie Wrap
	<b>7</b> Two .187 QC	<b>6</b> Special			
	<b>8</b> Two 10/32 Zinc Studs				
					<b>Base Material</b> select by letter
					<b>A</b> Metal <b>B</b> Plastic

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

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

**TRIMAX**  
Circuit Protectors

A division of Pelco Component Technologies

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