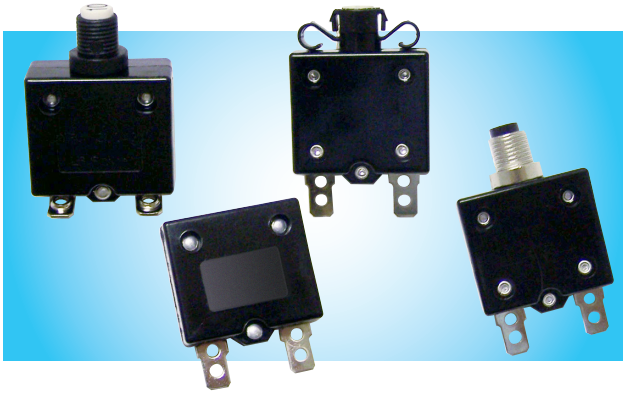
MX12 Series

MANUAL or AUTO RESET CIRCUIT PROTECTOR

TRIMAX Circuit Protectors



MX12 Series Circuit Protectors have been designed to protect against overloads and short-circuits for almost any conceivable application requiring dependability and economy.

The MX12 Series employs a proven "snap-action" bi-metal element to sense overload. When an overload reaches the calibrated trip point of the bi-metal element, the contact snaps open, disconnecting the load.

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

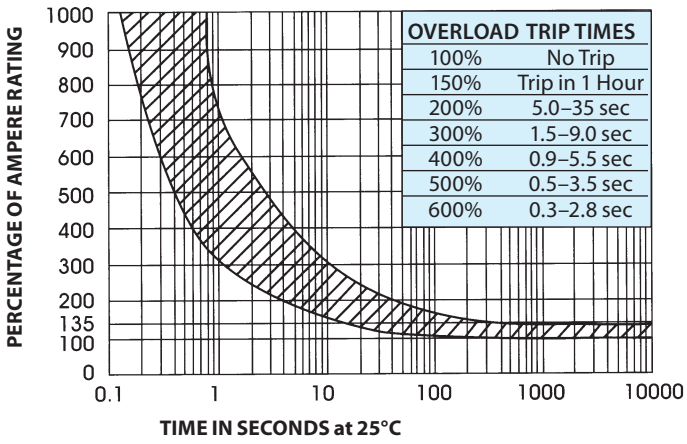
The auto reset version resets itself without visual indication.

EXAMPLES OF MX12 SERIES APPLICATIONS include:

- **Audio Systems**
- **Control Panels**
- **HVAC Equipment**
- **Motor Protection**
- **Power Supplies**
- **Vending Machines**
- **Personal Transportation Devices**

…and many more.

TRIP TIME CURVE



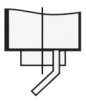
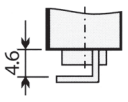
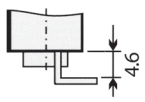
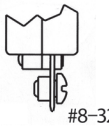
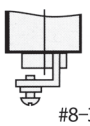
SPECIFICATIONS

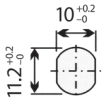
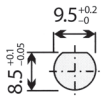
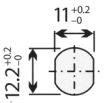
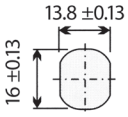
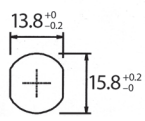
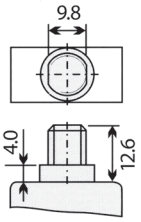
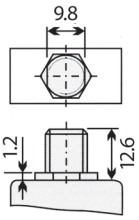
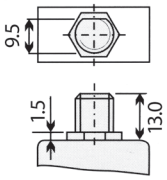
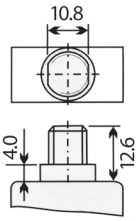
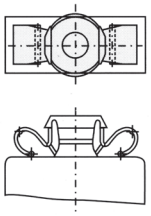
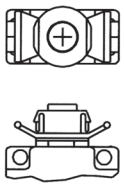
- **Trip Time vs. Overload at 25°C**
  At 100% of rated current: no trip
  At 150% of rated current: trip within one hour
  At 200% of rated current: trip within 5 to 35 seconds
- **Current and Voltage Ratings**
  3A–50A, 125/250VAC / 50VDC
  (C type bushing only available as 125/250VAC / 32VDC)
- **Interrupt Capacity**
  1000A at rated voltage
- **Resettable Overload Capacity**
  10 times rated current
- **Dielectric Strength**
  1500VAC / 3 minutes
- **Voltage Drop**
  < 0.25V
- **Temperature Rise at Terminal Block**
  < 65°C with 100% of rated current applied continuously at 25°C
- **Maximum Reset Time**
  60 seconds
- **Termination Options**
  .250" QC tabs available in straight, 90° or 45° bend.
  #8-32 screw and lockwasher assembly.
  Contact factory for non-standard termination options.
- **Approvals**
  Manual Reset: UL/CUL 3A-30A, 125/250VAC / 50VDC
  TUV 3A-40A, 125/250VAC / 50VDC
  Auto Reset: TUV3A-40A, 125/250VAC / 50VDC

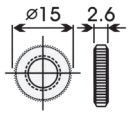
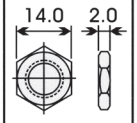
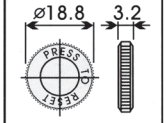
DERATING FACTORS for AMBIENT TEMPERATURE

60°C	x 1.75
50°C	x 1.43
40°C	x 1.22
32°C	x 1.10
25°C	x 1.00
18°C	x 0.90
15°C	x 0.88
10°C	x 0.74
0°C	x 0.68

OPTIONS ILLUSTRATED / DIMENSIONS in mm

TERMINAL OPTIONS						
	 .250 Tab	 .250 Tab	 .250 Tab	 .250 Tab	 #8–32	 #8–32
	Straight	45° Bend	90° Bend	90° Bend Backwards	Screws and Lockwasher	

PANEL CUTOUTS / BUSHING OPTIONS						
						
	 M11X1.0	 M11X1.0	 3/8"–27	 M12X1.0		
	A Type	B Type	C Type	D Type	Snap In I	Snap In II

MOUNTING HARDWARE OPTIONS			
			
Knurlnut	Hexnut	Integrated Knurlnut	

MOUNTING ACCESSORY OPTIONS		
		
Silver Printing on Black	Waterproof Cover	

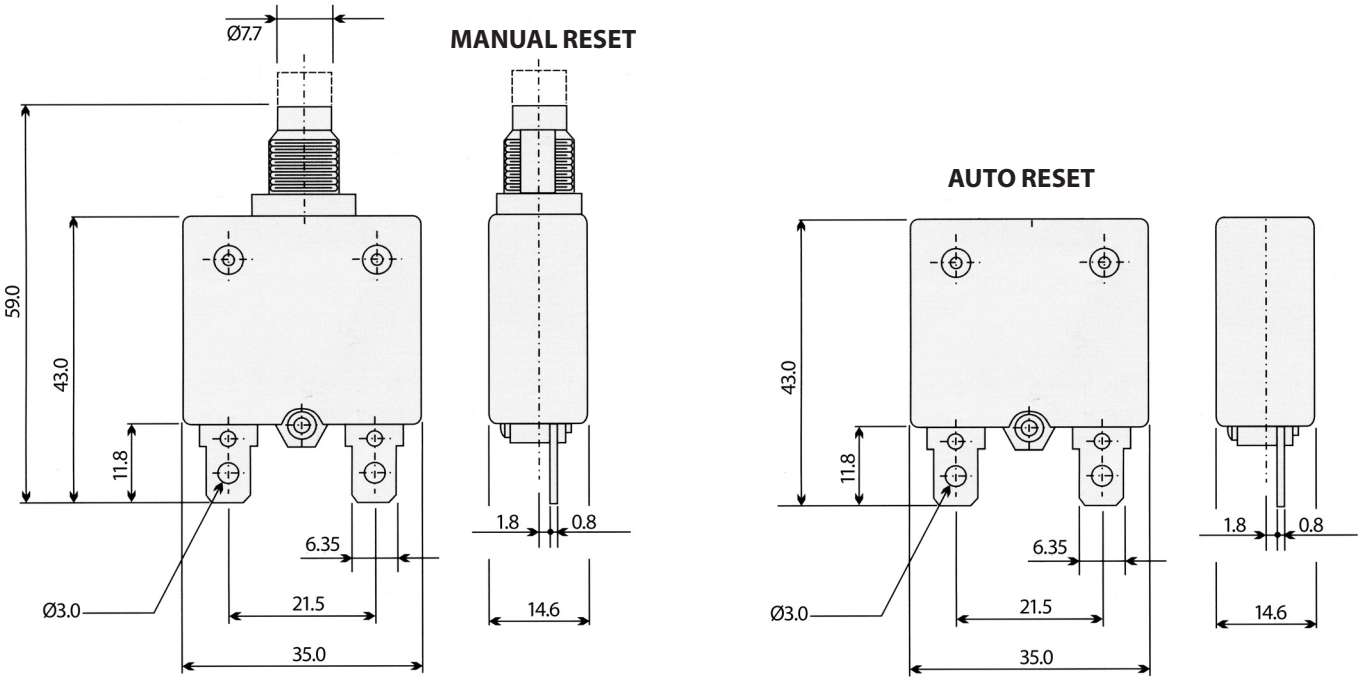
All hardware items are available for M11, M12 and 3/8"bushing options.

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

MX12 Series

MANUAL or AUTO RESET CIRCUIT PROTECTOR

DIMENSIONS in mm



OPTIONS SELECTION

Series	Amps select by number	Volts select by letter	Terminals select by number	Actuator select by letter	Bushing select by number
MX12 Manual or Auto Reset Circuit Protectors	**030** : 3A **050** : 5A **100** : 10A **150** : 15A **200** : 20A **500** 50A	**A** 125/250VAC / 50VDC **B** 125/250VAC / 32VDC *(with C type bushing only)*	**1** .250 Tab Straight **2** .250 Tab Bend 45° **3** .250 Tab Bend 90° **4** .250 Tab Bend 90° Backward **5** Straight #8-32 Screw Terminal **6** #8-32 Screw Terminal w/Bend 90° **7** One .250 Tab Straight and One Straight #8-32 Screw Terminal w/Bend 90°	**A** Black Button **B** Black w/Vertical White Print **C** Black w/Horizontal White Print **D** White Button **E** White w/Vertical Black Print **F** White w/Horizontal Black Print **G** White w/Vertical Red Print **H** Red Button **J** Red w/Vertical Black Print **K** Auto Reset	**1** A Type Metal **2** A Type Plastic **3** B Type Metal **4** B Type Plastic **5** C Type **6** D Type **7** Snap In I Plastic **8** Snap in II Plastic **9** None

To ensure accuracy when specifying options, please follow selection order:

1. **Series**
2. **Amps**
3. **Volts**
4. **Terminals**
5. **Actuator**
6. **Bushing**
7. **Mounting Hardware**
8. **Mounting Accessories**
9. **Base Color**

Mounting Hardware select by letter	Mounting Accessories select by number	Base Color select by letter
A None **B** Metal KnurInut **C** Metal Hexnut **D** Plastic Integrated KnurInut **E** Metal Hex and KnurInut **F** (2) Metal Hex Nuts	**1** None **2** Nameplate **3** Rubber Boot **4** Rubber Boot with Nameplate **5** Bracket Attachment	**A** White **B** Black

Example: MX12 | 100 | A | 5 | D | 1 | A | 3 | A

MX12, 10Amps, 125/250VoltsAC / 50VoltsDC, Straight #8-32 screw terminals, White button actuator, A Type metal bushing, No mounting hardware, Rubber boot, White base

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