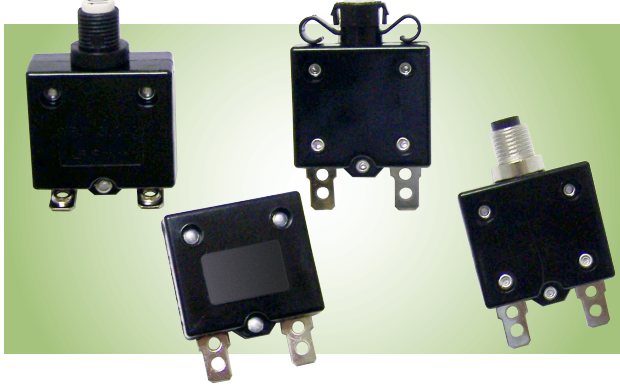


MX12 Series

MANUAL or AUTO RESET CIRCUIT PROTECTOR



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.

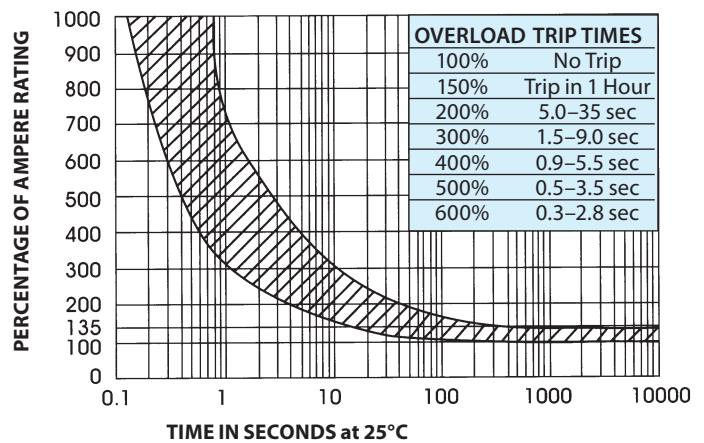


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EXAMPLES OF MX12 SERIES APPLICATIONS include:

- 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–40A, 125/250VAC / 32VDC
- 50A–80A available upon request without UL

■ Interrupt Capacity

- 1000A at 125VAC, 200A at 250VAC

■ Resettable Overload Capacity

- 6 times rated current

■ Dielectric Strength

- 1500VAC / 1 minute

■ 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

■ RoHS compliant

■ Insulation Resistance

- > 500Mohms

■ Termination Options

- .250" QC tabs available in straight, 90° or 45° bend.
- #8-32 screw and lockwasher assembly.
- Contact Trimax for non-standard termination options.

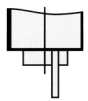
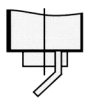
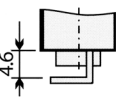
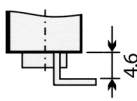
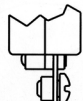
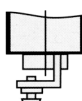
■ Approvals

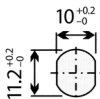
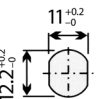
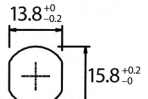
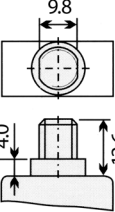
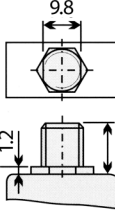
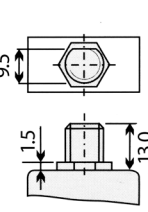
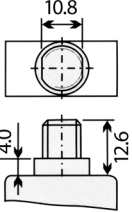
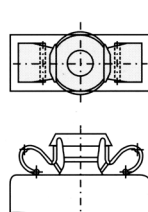
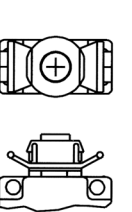
- Manual Reset: UL/cUL 3A-30A, 125/250VAC / 32VDC
- VDE 3A-16A

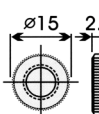
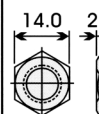
DERATING FACTORS for AMBIENT TEMPERATURE

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 Straight	.250 Tab 45° Bend	.250 Tab 90° Bend	.250 Tab 90° Bend Backwards	#8-32 Screws and Lockwasher	#8-32 Screws and Lockwasher

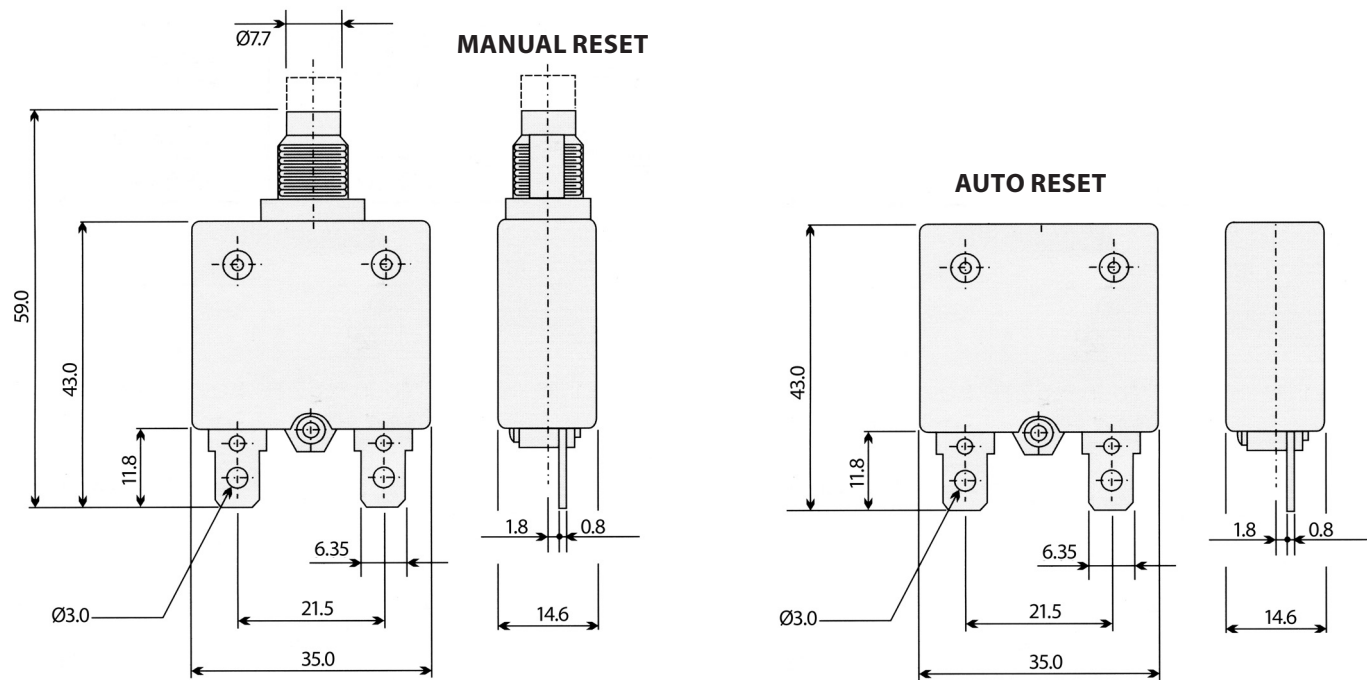
PANEL CUTOUTS						
	BUSHING OPTIONS					
						
	M11X1.0 A Type	M11X1.0 B Type	3/8"-27 C Type	M12X1.0 D Type	Snap In I	Snap In II

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.

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	030 3A	A 125/250VAC / 32VDC	1 .250 Tab Straight	A Black Button	1 A Type Metal
	: 050 5A		2 .250 Tab Bend 45°	B Black w/Vertical White Print	2 A Type Plastic
	: 100 10A		3 .250 Tab Bend 90°	C Black w/Horizontal White Print	3 B Type Metal
	: 150 15A		4 .250 Tab Bend 90° Backward	D White Button	4 B Type Plastic
	: 200 20A		5 Straight #8-32 Screw Terminal	E White w/Vertical Black Print	5 C Type Plastic
	: 500 50A		6 #8-32 Screw Terminal w/Bend 90°	F White w/Horizontal Black Print	6 D Type
			7 One .250 Tab Straight and One Straight #8-32 Screw Terminal w/Bend 90°	G White w/Vertical Red Print	7 Snap In I Plastic
				H Red Button	8 Snap in II Plastic
				J Red w/Vertical Black Print	9 None
				K Auto Reset	

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

Series
Amps
Volts
Terminals
Actuator
Bushing
Mounting Hardware
Mounting Accessories
Base Color

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

Example: **MX12 100 A 5 D 1 A 3 B** MX12, 10Amps, 125/250VoltsAC / 32VoltsDC, Straight #8-32 screw terminals, White button actuator, A Type metal bushing, No mounting hardware, Rubber boot, Black base