MX11 Series
MANUAL or AUTO RESET CIRCUIT PROTECTOR

MX11 Series Circuit Protectors have been designed to protect against overloads and short-circuits for almost any conceivable application requiring dependability and economy.

The MX11 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 MX11 SERIES APPLICATIONS include:
- Audio Systems
- Control Panels
- HVAC Equipment
- Motor Protection
- Power Supplies
- Vending Machines
- Personal Transportation Devices
...and many more.

TIME IN SECONDS at 25°C

PERCENTAGE OF AMPERE RATING

OVERLOAD TRIP TIMES
100% No Trip
150% Trip in 1 Hour
200% 5.2–30.0 sec
300% 1.5–5.0 sec
400% 0.62–3.05 sec
500% 0.42–1.75 sec
600% 0.34–1.05 sec

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–25A, 125/250VAC / 32VDC

Interrupt Capacity
1000A at 25VDC, 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

DERATING FACTORS for AMBIENT TEMPERATURE
<table>
<thead>
<tr>
<th>Temperature</th>
<th>Derating Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>60°C</td>
<td>x 0.60</td>
</tr>
<tr>
<td>50°C</td>
<td>x 0.70</td>
</tr>
<tr>
<td>40°C</td>
<td>x 0.85</td>
</tr>
<tr>
<td>25°C</td>
<td>x 1.00</td>
</tr>
<tr>
<td>10°C</td>
<td>x 1.2</td>
</tr>
<tr>
<td>0°C</td>
<td>x 1.4</td>
</tr>
<tr>
<td>-10°C</td>
<td>x 1.5</td>
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</table>
### TERMINAL OPTIONS

<table>
<thead>
<tr>
<th></th>
<th>Straight</th>
<th>45° Bend</th>
<th>90° Bend</th>
<th>90° Bend Backwards</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 Tab</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>250 Tab</td>
<td></td>
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</tbody>
</table>

Contact Trimax for special terminal requests

### PANEL CUTOUTS

<table>
<thead>
<tr>
<th>BUSHING OPTIONS</th>
<th>A Type</th>
<th>B Type</th>
<th>C Type</th>
<th>Snap In I</th>
<th>Snap In II</th>
</tr>
</thead>
<tbody>
<tr>
<td>M11X1.0</td>
<td>9.8</td>
<td>10.8</td>
<td>13.8</td>
<td>13.8</td>
<td>15.8</td>
</tr>
<tr>
<td>M12X1.0</td>
<td>9.6</td>
<td>9.6</td>
<td>11.6</td>
<td>16.4</td>
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</table>

### MOUNTING HARDWARE OPTIONS

<table>
<thead>
<tr>
<th></th>
<th>2.6</th>
<th>4.0</th>
<th>3.0</th>
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</thead>
<tbody>
<tr>
<td>Knurlnut</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexnut</td>
<td>14.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated Knurlnut</td>
<td>18.8</td>
<td>2.0</td>
<td></td>
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</table>

### MOUNTING ACCESSORY OPTIONS

<table>
<thead>
<tr>
<th></th>
<th>24.0 x 0.4t</th>
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</thead>
<tbody>
<tr>
<td>Silver Printing on Black</td>
<td></td>
</tr>
<tr>
<td>Waterproof Cover</td>
<td></td>
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</tbody>
</table>

All hardware items are available for M11 and M12.
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MANUAL or AUTO RESET CIRCUIT PROTECTOR

DIMENSIONS in mm

MANUAL RESET

AUTO RESET

OPTIONS SELECTION

<table>
<thead>
<tr>
<th>Series</th>
<th>Amps select by number</th>
<th>Volts select by letter</th>
<th>Terminals select by number</th>
<th>Actuator select by letter</th>
<th>Bushing select by number</th>
</tr>
</thead>
<tbody>
<tr>
<td>MX11</td>
<td>030: 3A 100: 10A 150: 15A 200: 20A</td>
<td>125/250VAC / 32VDC</td>
<td>1.250 Tab Straight 2.250 Tab Bend 45° 3.250 Tab Bend 90° 4.250 Tab Bend 90° Backward</td>
<td>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</td>
<td>1 A Type Metal 2 B Type Plastic 3 C Type Plastic 4 Snap In I 5 Snap In II 6 None 7 3/8&quot; Plastic</td>
</tr>
</tbody>
</table>

Mounting Hardware select by letter

A None
B Metal Knurlnut
C Metal Hexnut
D Plastic Integrated Knurlnut
E Metal Hex and Knurlnut
F (2) Metal Hex Nuts

Mounting Accessories select by number

1 None
2 Nameplate
3 Rubber Boot
4 Rubber Boot with Nameplate

Base Color select by letter

A Black

Example: MX11 100 A 1 A 1 F 4 A

MX11, 10Amps, 125/250VoltsAC / 32VoltsDC, Straight .250 tab terminals, Black button actuator, A Type metal bushing, Two metal hexnuts, Rubber boot with nameplate, Black base

TRIMAX Circuit Protectors
A DIVISION OF PELCO COMPONENT TECHNOLOGIES
2747 Rte 20E • Cazenovia, NY • 855 227 3526 • trimaxcb.com