

W23


W31

## Features

- 0.5 amp to 50 amp ratings may be used as on/off switch.
- Cannot be reset against overload.
- W23 has visible trip indicator band.
- Screw termination.
- Trip-free operation.


## Agency Approvals

W23 and W31 are UL 1077 Recognized as Supplementary Protectors.
File E69543, and CSA Accepted as Supplementary Protectors
(Appliance Component Protectors), File LR15734.
Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

## Electrical Data @ +25º

Calibration: Will continuously carry 100\% of rating, may trip between $101 \%$ and $134 \%$ of rating at $25^{\circ} \mathrm{C}$. Must trip at $135 \%$ in one hour.
Maximum Operating Voltages: 50VDC or 240VAC (to 400 Hz ).
Interrupting Capacity:
With 4X Max. Series Fuse Protection
$0.5-50 \mathrm{amp}$ models - 1000 amps at 240VAC.
$30-50 \mathrm{amp}$ models - 1000 amps at 50VDC.
Without 4X Max. Series Fuse Protection
0.5-25 amp models - 2000 amps at 50VDC.
$10-20$ amp models -2000 amps at 120VAC.
Resettable Overload Capacity: Ten times rated current.
Dielectric Strength: Over 1,500 volts RMS.

## W23/W31 series

## Toggle or <br> Push/Pull Actuator Thermal P\&B Circuit Breaker

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## Maximum Resistance vs. Current Rating @ +25 ${ }^{\circ} \mathrm{C}$

| Current <br> Rating <br> in Amps | Maximum <br> Resistance <br> in Ohms $\mathbf{3 0 \%}$ |
| :---: | :---: |
| 1 | .61 |
| 5 | .03 |
| 10 | .01 |
| 15 | .006 |
| 20 | .004 |
| 30 | .003 |
| 40 | .002 |
| 50 | .002 |

## Mechanical/Environmental Data

Endurance Cycling: More than 6,000 cycles at 100\% of rating, or 10,000 mechanical cycles.
Humidity: Will meet requirements of MIL-STD-202, Method 106.
Salt Spray: Will meet requirements of MIL-STD-202, Method 101, Test Condition B.
Termination: Two \#8-32 screw terminals.
Mounting: W23 - Threaded bushing, 3/8" (9.53mm) diameter. W31 - Threaded bushing, 15/32" (11.91mm) diameter, with or without anti-rotation flats.
Weight: Less than 2 oz. (57g).

Time Vs. Current Trip Curve @ +25 ${ }^{\circ} \mathrm{C}$


Ambient Compensation Chart


Ambient Temperature In Degrees Centigrade ( ${ }^{\circ} \mathrm{C}$ )

To use this chart: Read up from the ambient temperature to the curve, and across to find a correction factor. Multiply the breaker rating by the correction factor to determine the compensated rating. Calculate the overloads in terms of the compensated rating to use the published trip curve.
Ordering Information


## Stock Items - Authorized distributors are more likely to stock the following items.

| W23-X1A1G-1 | W23-X1A1G-7.50 | W23-X1A1G-25 |
| :--- | :--- | :--- |
| W23-X1A1G-2 | W23-X1A1G-10 | W23-X1A1G-30 |
| W23-X1A1G-3 | W23-X1A1G-15 | W23-X1A1G-35 |
| W23-X1A1G-5 | W23-X1A1G-20 | W23-X1A1G-40 |

## Ordering Information



## Stock Items - Authorized distributors are more likely to stock the following items.

| W31-X2M1G-1 | W31-X2M1G-10 | W31-X2M1G-35 |
| :--- | :--- | :--- |
| W31-X2M1G-2 | W31-X2M1G-15 | W31-X2M1G-40 |
| W31-X2M1G-3 | W31-X2M1G-20 | W31-X2M1G-50 |
| W31-X2M1G-5 | W31-X2M1G-25 |  |
| W31-X2M1G-7.50 | W31-X2M1G-30 |  |

## W23 Outline Dimensions

Terminal Style 1


Mounting Hardware
Hex Nut
(55-001D - Silver Color)


## Terminal Style 3



All dimensions are given as $\underset{(\mathrm{mm})}{\substack{\text { inches }}}$

Suggested Mounting Holes


Terminal Style 5


## W31 Outline Dimensions

Terminal Style 1


Mounting Hardware
Lockwasher
(88-006B - Silver Color)


Knurled Nut (55-008A - Silver Color)


Hex Nut
(55-001B - Silver Color)

Lockwasher
(88-002B - Silver Color)

Knurled Nut
(55-010B - Silver Color)


Suggested Mounting Holes


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046 M55629/1-048 M55629/1-058 M55629/1-060 M55629/1-067 M55629/1-070 M55629/1-079 M55629/1-084 M55629/1-085 M55629/1-
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