

W23/W31 series

Toggle or Push/Pull Actuator Thermal Circuit Breaker

90

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.
- Screw termination.
- · Trip-free operation.

Agency	Ap	prova	ls

W23 and W31 are UL 1077 Recognized as Supplementary Protectors. File E69543, and CSA Certified as Appliance Component Protectors, File LR15734.

Current Rating in Amps	Maximum Resistance in Ohms ± 30%
1	.61
5	.03
10	.01
15	.006
20	.004
30	.003
40	.002
50	.002

Electrical Data @ +25°C

Calibration: Will continuously carry 100% of rating, may trip between

101% and 134% of rating at 25°C. Must trip at 135% in

one hour.

Maximum Operating Voltages: 50VDC or 250VAC (to 400 Hz). Interrupting Capacity: 0.5-25 amp models — 2,500 amps at 50VDC,

1000 amps at 250VAC. 26-50 amp models — 1000

amps at 50VDC or 250VAC.

Resettable Overload Capacity: Ten times rated current.

Dielectric Strength: Over 1,500 volts RMS.

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.

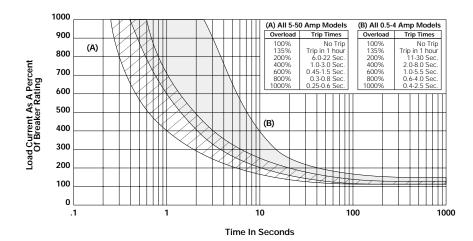
Termination: Two #8-32 screw terminals.

Mounting: W23 — Threaded bushing, 3/8" (9.53mm) diameter.

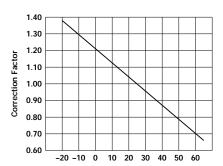
W31 — Threaded bushing, 15/32" (11.91mm) diameter, with or without anti-rotation flats.

Weight: Less than 2 oz. (57g).

Time Vs. Current Trip Curve @ +25°C



Ambient Compensation Chart

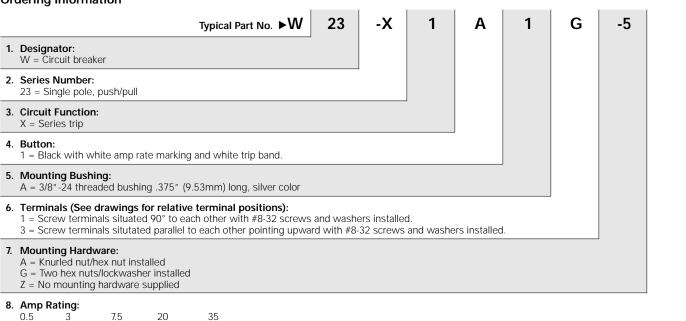


Ambient Temperature In Degrees Centigrade (°C)

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.



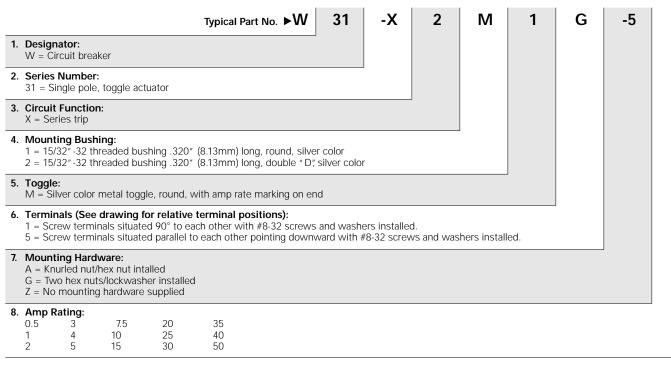
Ordering Information



Stock Items - The following items are normally maintained in stock for immediate delivery.

W23-X1A1G-1	W23-X1A1G-7.50	W23-X1A1G-25	W23-X1A1G-50
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

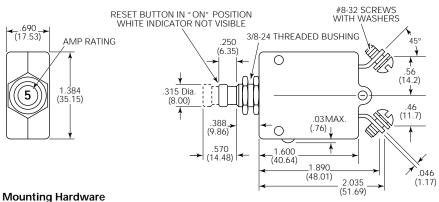


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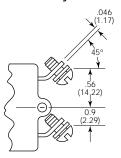
W31-X2M1G-1	W31-X2M1G-10	W31-X2M1G-35
W31-X2M1G-2	W31-X2M1G-15	W31-X2M1G-40
W31-X2M1G-3	W31-X2M1G-20	W31-X2M1G-50
W31-X2M1G-5	W31-X2M1G-25	
W31-X2M1G-7.50	W31-X2M1G-30	

W23 Outline Dimensions

Terminal Style 1

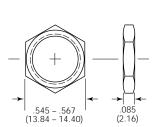


Terminal Style 3



All dimensions are given as inches (mm)



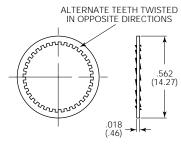


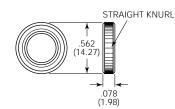
Lockwasher

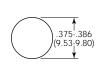
(88-006B - Silver Color)



Suggested Mounting Holes

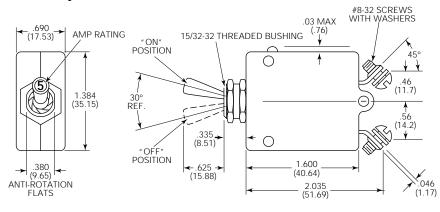




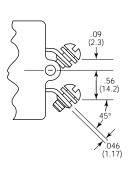


W31 Outline Dimensions

Terminal Style 1



Terminal Style 5



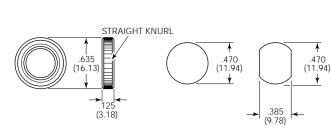
Suggested Mounting Holes

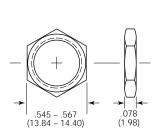
Mounting Hardware

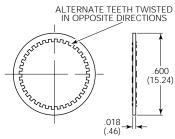
Hex Nut (55-001B - Silver Color)

Lockwasher (88-002B - Silver Color)

Knurled Nut (55-010B - Silver Color)







Tyco Electronics Corporation - P&B, Winston-Salem, NC 27102 Technical Support Center: 1-800-522-6752, www.pandbrelays.com