



W23



W31

W23/W31 series

Toggle or Push/Pull Actuator Thermal P&B Circuit Breaker



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 @ +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 240VAC (to 400 Hz).

Interrupting Capacity:

With 4X Max. Series Fuse Protection

0.5-50 amp models — 1000 amps at 240VAC.

30-50 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.

Maximum Resistance vs. Current Rating @ +25°C

Current Rating in Amps	Maximum Resistance in Ohms $\pm 30\%$
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.

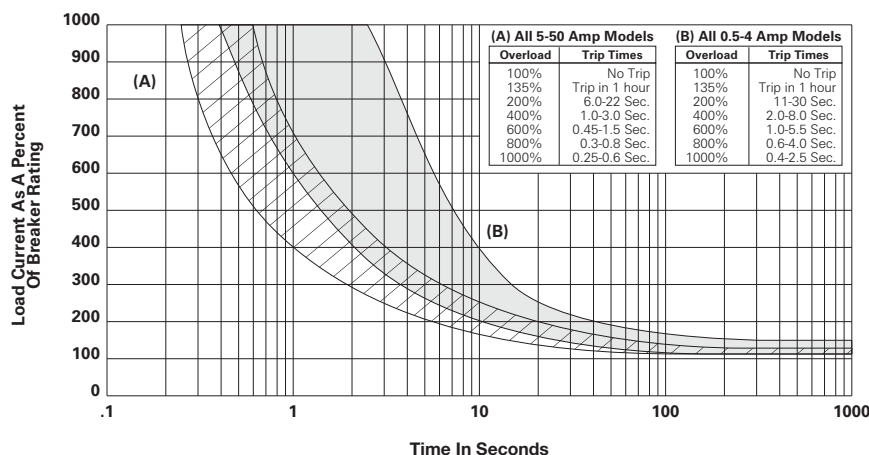
Termination: Two #8-32 screw terminals.

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

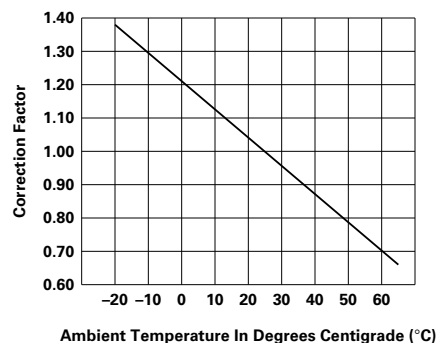
W31 — Threaded bushing, 15/32" (11.91mm) diameter, with or without anti-rotation flats.

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

Time Vs. Current Trip Curve @ +25°C



Ambient Compensation Chart



Ordering Information

Typical Part No. ▶		W	23	-X	1	A	1	G	-5
1. Designator: W = Circuit breaker									
2. Series Number: 23 = Single pole, push/pull									
3. Circuit Function: X = Series trip									
4. Button: 1 = Black with white amp rate marking and white trip band.									
5. Mounting Bushing: A = 3/8"-24 threaded bushing .375" (9.53mm) long, silver color									
6. Terminals (See drawings for relative terminal positions): 1 = Screw terminals situated 90° to each other with #8-32 screws and washers installed. 3 = Screw terminals situated parallel to each other pointing upward with #8-32 screws and washers installed.									
7. Mounting Hardware: A = Knurled nut/hex nut installed G = Two hex nuts/lockwasher installed Z = No mounting hardware supplied									
8. Amp Rating:									
0.5	3	7.5	20	35					
1	4	10	25	40					
2	5	15	30	50					

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

W23-X1A1G-1	W23-X1A1G-750	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

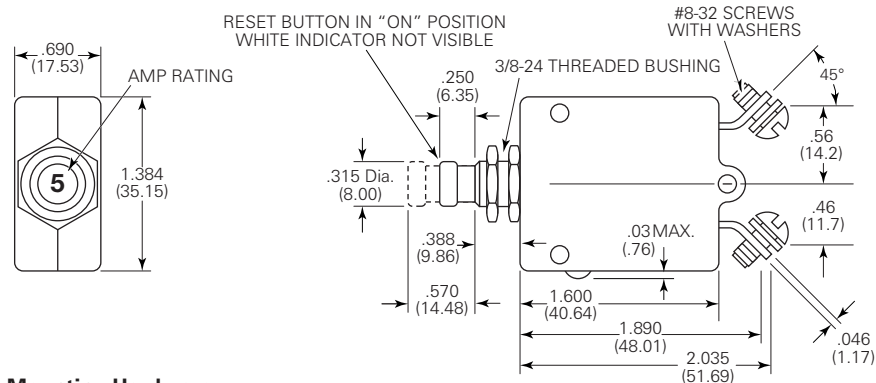
Typical Part No. ▶		W	31	-X	2	M	1	G	-5
1. Designator: W = Circuit breaker									
2. Series Number: 31 = Single pole, toggle actuator									
3. Circuit Function: X = Series trip									
4. Mounting Bushing: 1 = 15/32"-32 threaded bushing .320" (8.13mm) long, round, silver color 2 = 15/32"-32 threaded bushing .320" (8.13mm) long, double "D," silver color									
5. Toggle: M = Silver color metal toggle, round, with amp rate marking on end									
6. Terminals (See drawing for relative terminal positions): 1 = Screw terminals situated 90° to each other with #8-32 screws and washers installed. 5 = Screw terminals situated parallel to each other pointing downward with #8-32 screws and washers installed.									
7. Mounting Hardware: A = Knurled nut/hex nut intalled G = Two hex nuts/lockwasher installed Z = No mounting hardware supplied									
8. Amp Rating:									
0.5	3	7.5	20	35					
1	4	10	25	40					
2	5	15	30	50					

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

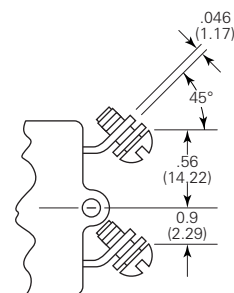
W31-X2M1G-1	W31-X2M1G-10	W31-X2M1G-35
W31-X2M1G-2	W31-X2M1G-15	W31-X2M1G-40
W31-X2M1G-3	W31-X2M1G-20	W31-X2M1G-50
W31-X2M1G-5	W31-X2M1G-25	
W31-X2M1G-750	W31-X2M1G-30	

W23 Outline Dimensions

Terminal Style 1



Terminal Style 3

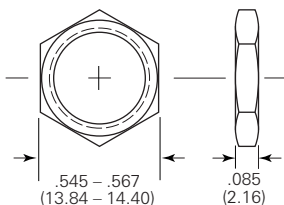


All dimensions are given as inches (mm)

Mounting Hardware

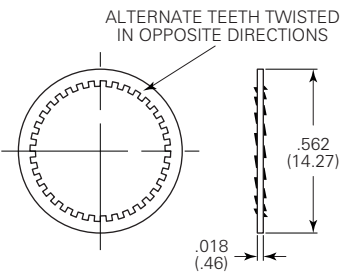
Hex Nut

(55-001D - Silver Color)



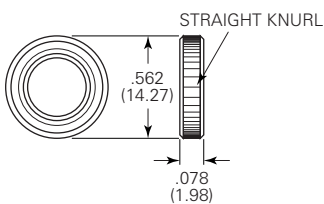
Lockwasher

(88-006B - Silver Color)

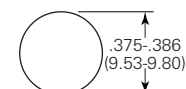


Knurled Nut

(55-008A - Silver Color)

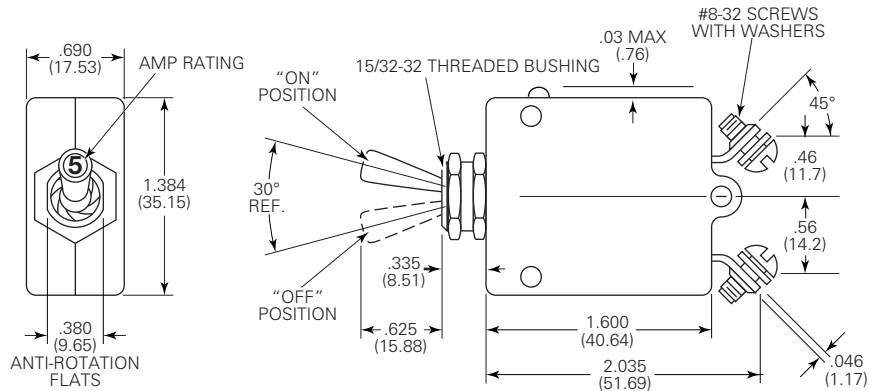


Suggested Mounting Holes

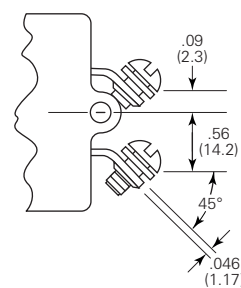


W31 Outline Dimensions

Terminal Style 1



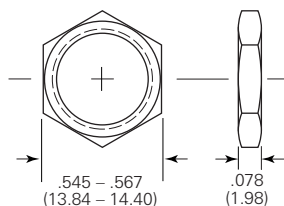
Terminal Style 5



Mounting Hardware

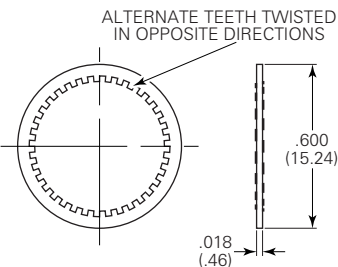
Hex Nut

(55-001B - Silver Color)



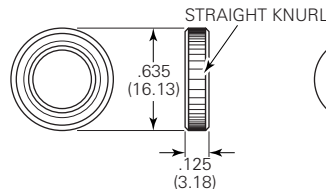
Lockwasher

(88-002B - Silver Color)

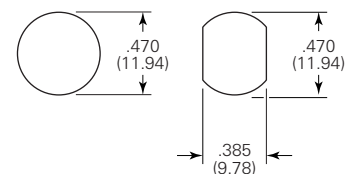


Knurled Nut

(55-010B - Silver Color)



Suggested Mounting Holes





**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

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С нами вы становитесь еще успешнее!

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