



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 ± 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.

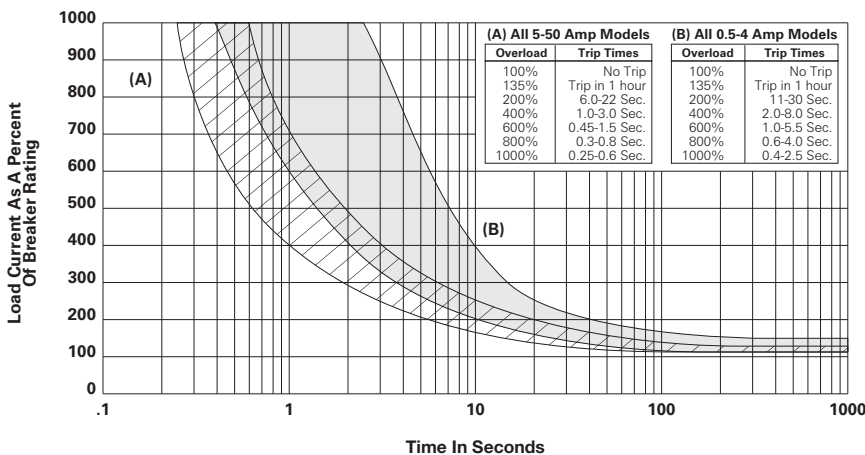
Termination: Two #8-32 screw terminals.

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

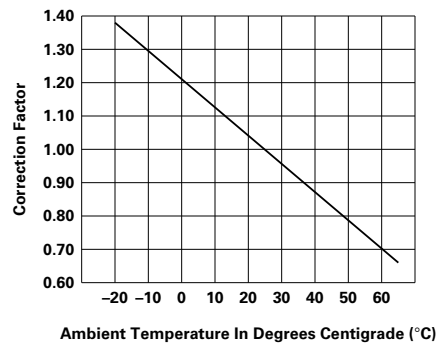
W31 — Threaded bushing, 15/32" (11.91mm) diameter, with or without anti-rotation flats.

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

Time Vs. Current Trip Curve @ +25°C



Ambient Compensation Chart



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

| | | | | | | | | |
|--|----------|-----------|-----------|----------|----------|----------|----------|-----------|
| 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-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

| | | | | | | | | |
|---|----------|-----------|-----------|----------|----------|----------|----------|-----------|
| 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 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.

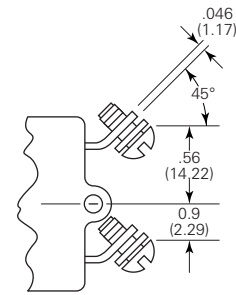
| | | |
|----------------|--------------|--------------|
| W31-X2M1G-1 | W31-X2M1G-10 | W31-X2M1G-35 |
| W31-X2M1G-2 | W31-X2M1G-15 | W31-X2M1G-40 |
| W31-X2M1G-3 | W31-X2M1G-20 | W31-X2M1G-50 |
| W31-X2M1G-5 | W31-X2M1G-25 | |
| W31-X2M1G-7.50 | W31-X2M1G-30 | |

W23 Outline Dimensions

Terminal Style 1



Terminal Style 3

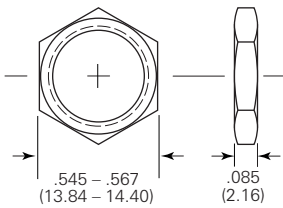


All dimensions are given as inches (mm)

Mounting Hardware

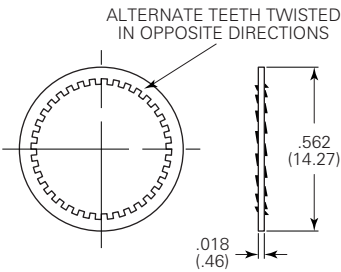
Hex Nut

(55-001D - Silver Color)



Lockwasher

(88-006B - Silver Color)



Knurled Nut

(55-008A - Silver Color)



Suggested Mounting Holes



W31 Outline Dimensions

Terminal Style 1



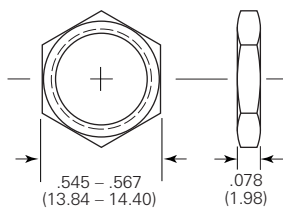
Terminal Style 5



Mounting Hardware

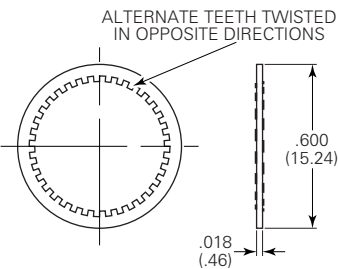
Hex Nut

(55-001B - Silver Color)



Lockwasher

(88-002B - Silver Color)



Knurled Nut

(55-010B - Silver Color)



Suggested Mounting Holes



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А