



W58 series

Push To Reset Only Thermal Circuit Breaker



Features

- 0.5 amp to 30 amp ratings.
- Cannot be manually tripped.
- Button extends for visual trip indication.
- Push button to reset breaker.
- Termination is screw or .250" QC.

Agency Approvals

W58 Series is 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: Breaker will continuously carry 100% of rated load. It may trip between 101% and 145% of rated load, but must trip at 145% at 25°C.

Dielectric Strength: Over 1,500 volts RMS.

Maximum Operating Voltages: 50VDC; 250VAC.

Interrupt Capacity: 2,000 amps at 50VDC (0.5 - 30 amp models).
1,000 amps at 250VAC (0.5 - 30 amp models).

Note: 30 amp model not UL or CSA.

Resettable Overload Capacity: Ten times rated current.

Maximum Resistance vs. Current Rating @ +25°C

| Current Rating in Amps | Maximum Resistance in Ohms | Current Rating in Amps | Maximum Resistance in Ohms |
|------------------------|----------------------------|------------------------|----------------------------|
| 0.5 | 5.0 | 8 | 0.020 |
| 1 | 1.35 | 9 | 0.020 |
| 2 | 0.32 | 10 | 0.014 |
| 3 | 0.18 | 12 | 0.010 |
| 4 | 0.10 | 15 | 0.010 |
| 5 | 0.026 | 20 | 0.005 |
| 6 | 0.026 | 25 | 0.006 |
| 7 | 0.020 | 30* | 0.004 |

*No UL/CSA

Mechanical/Environmental Data

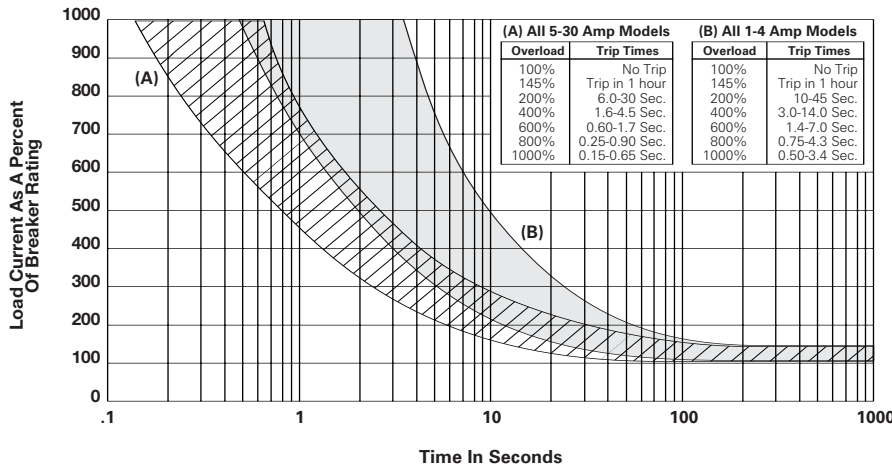
Shock: Withstands to 10g.

Endurance Cycling: Over 1,000 cycles at 200% of rated load.

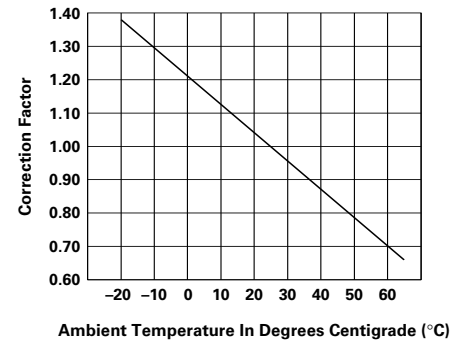
Vibration: Withstands to 10g at 10-55 Hz.

Weight: Less than 1 1/2 oz. (42.5g).

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.

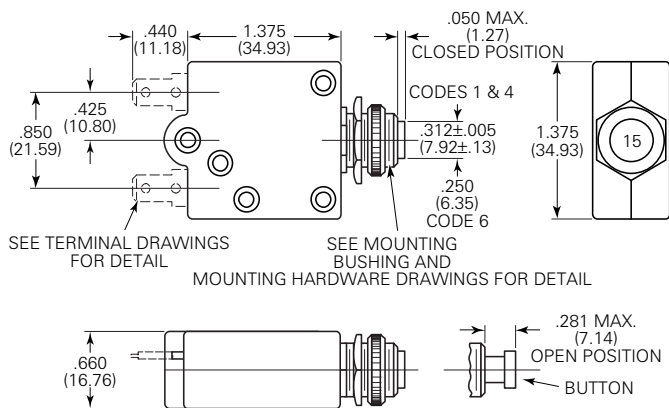
Ordering Information

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|-----------|-----------|----------|----------|----------|----------|----------|----------------|-----|---|---|---|----|-----|--|--|--|--|---|---|---|----|----|--|--|--|--|--|---|---|---|----|----|--|--|--|--|----------------|
| | W | 58 | -X | B | 1 | A | 4 | A | -5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Typical Part No. ▶</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>1. Designator: W = Circuit breaker</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>2. Series Number: 58 = Single Pole, Push-to-Reset</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>3. Circuit Function: X = Series Trip</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>4. Button: A = White, plain, no rate marking, no trip band E = White with red rate marking no trip band B = White with red rate marking, red trip band F = White with black rate marking, no trip band C = White with black rate marking, red trip band</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>5. Mounting Bushing: 1 = 7/16" x .500" (12.70mm) long 4 = 15/32" x .300" (7.62mm) long, black 6 = 3/8" x .465" (11.81mm) long, round</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>6. Terminals: A = Quick connect .250" (6.35mm) straight C = 6/32 screw 90° (screws installed) D = 6/32 screw 90° (screws bulk packed)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>7. Mounting Hardware: 4 = Knurled nut/hex nut 15 = Two hex nuts/lock washer 6 = Knurled nut/hex nut/lock washer 99 = No mtg. hardware supplied (Use C, Step #8) 12 = Knurled nut/lock washer</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Note: For other hardware combinations, order separately. See mounting hardware Ordering Information table.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>8. Mounting Hardware Packaging: A = Assembled to bushing B = Bulk unassembled C = No mounting hardware</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>9. Specify Amp Rating:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 12.5%;">0.5</td> <td style="width: 12.5%;">3</td> <td style="width: 12.5%;">6</td> <td style="width: 12.5%;">9</td> <td style="width: 12.5%;">15</td> <td style="width: 12.5%;">30*</td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> </tr> <tr> <td>1</td> <td>4</td> <td>7</td> <td>10</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>5</td> <td>8</td> <td>12</td> <td>25</td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: right;">*Not UL or CSA</td> </tr> </table> | | | | | | | | | | 0.5 | 3 | 6 | 9 | 15 | 30* | | | | | 1 | 4 | 7 | 10 | 20 | | | | | | 2 | 5 | 8 | 12 | 25 | | | | | *Not UL or CSA |
| 0.5 | 3 | 6 | 9 | 15 | 30* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4 | 7 | 10 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5 | 8 | 12 | 25 | | | | | *Not UL or CSA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

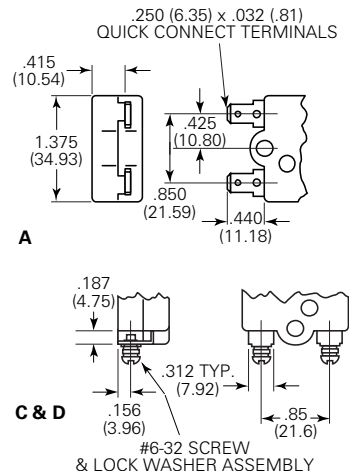
Stock Items – Authorized distributors are more likely to stock the following items.

| | | | | |
|--------------|---------------|---------------|----------------|----------------|
| W58-XB1A4A-1 | W58-XB1A4A-6 | W58-XB1A4A-15 | W58-XC4C12A-2 | W58-XC4C12A-15 |
| W58-XB1A4A-2 | W58-XB1A4A-7 | W58-XB1A4A-20 | W58-XC4C12A-3 | W58-XC4C12A-20 |
| W58-XB1A4A-3 | W58-XB1A4A-8 | W58-XB1A4A-25 | W58-XC4C12A-5 | W58-XC4C12A-25 |
| W58-XB1A4A-4 | W58-XB1A4A-10 | W58-XB1A4A-30 | W58-XC4C12A-7 | W58-XC4C12A-30 |
| W58-XB1A4A-5 | W58-XB1A4A-12 | W58-XC4C12A-1 | W58-XC4C12A-10 | |

Outline Dimensions



Terminal Options



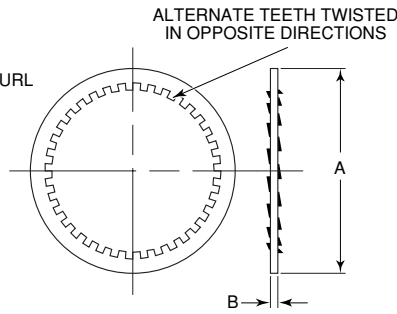
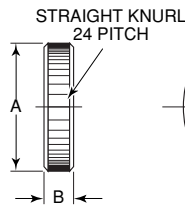
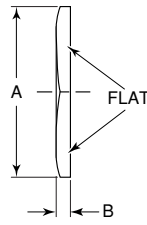
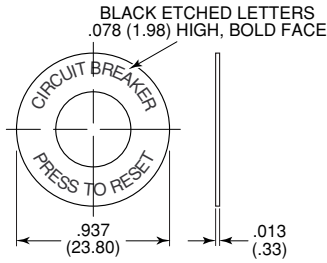
Mounting Hardware

Disc

Hex Nut

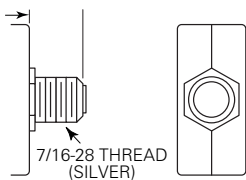
Knurled Nut

Lockwasher

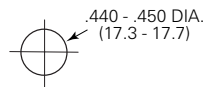


Mounting Bushing

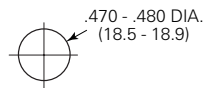
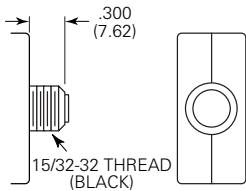
Type 1



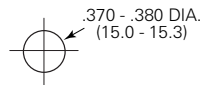
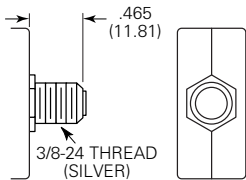
Recommended Cutout



Type 4



Type 6



Mounting Hardware Dimensions

| Dimension | | Hex Nut | Knurled Nut | Lockwasher |
|-----------|--------|---------|-------------|------------|
| A. | 3/8" | .556 | .562 | .562 |
| | 7/16" | .625 | .625 | .540 |
| | 15/32" | .556 | .625 | .600 |
| B. | 3/8" | .085 | .078 | .018 |
| | 7/16" | .111 | .125 | .022 |
| | 15/32" | .078 | .125 | .018 |

Mounting Hardware Ordering Information

| Mounting Bushing Code | Knurled Nut | Hex Nut | Lock Washer | Push to Reset Disc |
|-----------------------|-------------|---------|-------------|--------------------|
| 1 | 55-010A | 55-011A | 88-021B | 33-012A |
| 4 | • | 55-001B | 88-002A | 33-012C |
| 6 | 55-008A | 55-001D | 88-006K | 33-012B |

• 55-010B (silver) 55-010E (black)