

Circuit Breakers

Mini-Mag Hydraulic-Magnetic Circuit Breakers

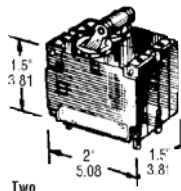
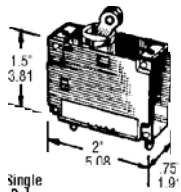
Rugged construction protects to 30 amps, to 277 volts, 60 Hz AC. Accurately calibrated to carry 100% of rated load and to trip at between 101% and 125% of load. Trip time at 200% of rated load is from 2.2 to 20 seconds. On heavy overloads, a spring-loaded iron piston moves instantly for immediate circuit interruption. Operation unaffected by ambient conditions. Terminals are 0.250" Quick Disconnect type. **Humidity Resistance:** per MIL-STD-202. **Dielectric Strength:** 1500 VAC 60 Hz. **Reset Time:** Instantaneous. **Voltage Drop:** less than 1.5 V at 1 A or more. **Shock and Vibration:** tested per MIL-STD-202. **Operating Temperature:** -40°C to +85°C. **Insulation Resistance:** 100 megs at 500 VDC. Fungus resistant. **Interruption Capacity:** 5-20 A — 5,000 amps; 30 A — 2,500 amps. **Shipping Weight:** 2.5 oz. per pole. UL recognized and CSA certified.

Single-Pole

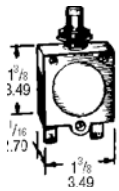
| Stock No. | Mfr.'s Type  | Amps | EACH  |       |       |
|-----------|--------------|------|-------|-------|-------|
|           |              |      | 1-24  | 25-49 | 50-99 |
| 886-2061  | W67-X2Q12-5  | 5    | 23.22 | 21.12 | 19.16 |
| 886-2062  | W67-X2Q12-10 | 10   | 21.60 | 20.53 | 16.42 |
| 886-2063  | W67-X2Q12-15 | 15   | 23.00 | 20.90 | 19.16 |
| 886-2064  | W67-X2Q12-20 | 20   | 20.38 | 18.68 | 17.25 |
| 886-2084  | W67-X2Q12-30 | 30   | 19.33 | 18.21 | 16.90 |

Two-Pole

|          |              |    |       |       |       |
|----------|--------------|----|-------|-------|-------|
| 886-2065 | W68-X2Q12-5  | 5  | 51.44 | 45.54 | 39.04 |
| 886-2066 | W68-X2Q12-10 | 10 | 55.18 | 50.16 | 45.98 |
| 886-2067 | W68-X2Q12-15 | 15 | 44.65 | 42.04 | 39.04 |
| 886-2072 | W68-X2Q12-20 | 20 | 55.18 | 50.16 | 45.98 |
| 886-2073 | W68-X2Q12-30 | 30 | 55.18 | 50.16 | 45.98 |



Model W58X Push-To-Reset Type Thermal Circuit Breakers



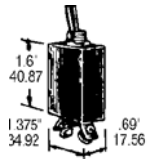
Here's an economical way to get low current protection. Button extends to indicate overload. **Max. Operating Voltage:** 250 VAC and 50 VDC. Carries 100% of rated load with ultimate trip at 145%. **Tripping Time:** for 1 to 4 amps is 10-45 sec. at 200%; 5 amps and up is 6-30 sec. at 200%. **Dielectric Strength:** over 1500 volts RMS. **Voltage Drop:** less than 1 1/2 volts. **Interrupt Capacity:** 2000 A at 500 VDC, 1000 A at 250 VAC. UL recognized, CSA certified.

| Stock No. | Mfr.'s Type   | Amps | EACH |       |       |
|-----------|---------------|------|------|-------|-------|
|           |               |      | 1-24 | 25-49 | 50-99 |
| 886-2053  | W58-XB1A4A-1  | 1    | 8.43 | 7.59  | 6.88  |
| 886-2054  | W58-XB1A4A-2  | 2    | 8.51 | 7.65  | 6.95  |
| 886-2055  | W58-XB1A4A-3  | 3    | 8.68 | 7.81  | 7.08  |
| 886-2056  | W58-XB1A4A-5  | 5    | 4.90 | 4.33  | 3.93  |
| 886-2057  | W58-XB1A4A-7  | 7    | 5.66 | 5.00  | 4.54  |
| 886-2058  | W58-XB1A4A-10 | 10   | 4.75 | 4.20  | 3.81  |
| 886-2059  | W58-XB1A4A-15 | 15   | 4.90 | 4.33  | 3.93  |
| 886-2060  | W58-XB1A4A-20 | 20   | 4.90 | 4.33  | 3.93  |

Model W31 Toggle Actuated Circuit Breakers

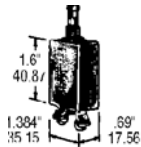
Single pole with toggle trip lever; trip-free mechanism. Wipe-on make contacts lessen voltage drop. Meets MIL-STD 202, method 106 — humidity; 202, method 101, test condition B — salt spray. **Endurance Cycling:** 6000+ at 100% of rating. 10,000 mechanical cycles. **Maximum Operating Voltages:** 50 VDC; 250 VAC (to 400 Hz). **Weight:** less than 2 oz. UL recognized, CSA certified.

| Stock No. | Mfr.'s Type  | Amps | Trip Time @ 200% Rating | EACH  |       |       |
|-----------|--------------|------|-------------------------|-------|-------|-------|
|           |              |      |                         | 1-24  | 25-49 | 50-99 |
| 886-2040  | W31-X2M1G-5  | 5    | 6-22 seconds            | 23.37 | 21.26 | 19.48 |
| 886-2041  | W31-X2M1G-10 | 10   | 6-22 seconds            | 23.37 | 21.26 | 19.48 |
| 886-2042  | W31-X2M1G-15 | 15   | 6-22 seconds            | 23.61 | 21.48 | 19.48 |
| 886-2043  | W31-X2M1G-20 | 20   | 6-22 seconds            | 24.86 | 22.71 | 20.64 |
| 886-2044  | W31-X2M1G-25 | 25   | 6-22 seconds            | 21.46 | 19.68 | 17.98 |
| 886-2045  | W31-X2M1G-30 | 30   | 6-22 seconds            | 23.81 | 21.83 | 20.16 |
| 886-2086  | W31-X2M1G-35 | 35   | 6-22 seconds            | 21.25 | 19.48 | 17.99 |



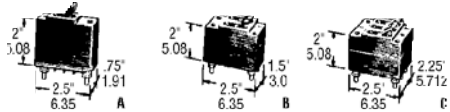
Model W23 Pushbutton Circuit Breakers

Single-pole with trip-free mechanism. Overload condition extends button, exposing white band for visible trip indication. **Meets MIL-STD:** 202, method 106 — humidity; 202, method 101, test condition B — salt spray. **Endurance Cycling:** 6000+ at 100% rating. 10,000 mechanical cycles. **Max. Operating Voltages:** 50 VDC; 250 VAC (to 400 Hz). **Weight:** less than 2 oz. UL recognized, CSA certified.



| Stock No. | Mfr.'s Type  | Amps | Trip Time @ 200% Rating | EACH  |       |       |
|-----------|--------------|------|-------------------------|-------|-------|-------|
|           |              |      |                         | 1-24  | 25-49 | 50-99 |
| 886-2032  | W23-X1A1G-5  | 5    | 6-22 seconds            | 19.97 | 18.14 | 16.48 |
| 886-2034  | W23-X1A1G-10 | 10   | 6-22 seconds            | 19.97 | 18.14 | 16.48 |
| 886-2035  | W23-X1A1G-15 | 15   | 6-22 seconds            | 19.97 | 18.15 | 16.48 |
| 886-2036  | W23-X1A1G-20 | 20   | 6-22 seconds            | 19.58 | 17.79 | 16.16 |
| 886-2037  | W23-X1A1G-25 | 25   | 6-22 seconds            | 19.97 | 18.15 | 16.48 |
| 886-2038  | W23-X1A1G-30 | 30   | 6-22 seconds            | 19.97 | 18.15 | 16.48 |
| 886-2039  | W23-X1A1G-50 | 50   | 6-22 seconds            | 16.51 | 14.60 | 12.88 |

Magnetic Type Circuit Breakers



For 60 Hz AC, up to 277 V. Will carry 100% of rated load indefinitely, with ultimate trip at 125%. **Trip Time:** 2.2-20 seconds at 200%. **Interruption Capacity:** 5000 amps at 277 VAC. UL recognized.

Single-Pole AC Type — Fig. A

| Stock No. | Mfr.'s Type | Amps | EACH  |       |       |
|-----------|-------------|------|-------|-------|-------|
|           |             |      | 1-24  | 25-49 | 50-99 |
| 886-2046  | W91-X112-10 | 10   | 31.27 | 28.43 | 26.06 |
| 886-2047  | W91-X112-15 | 15   | 25.97 | 24.68 | 23.38 |
| 886-2048  | W91-X112-20 | 20   | 20.21 | 18.37 | 16.68 |

Two-Pole AC Type — Fig. B

|          |             |    |       |       |       |
|----------|-------------|----|-------|-------|-------|
| 886-2090 | W92-X112-10 | 10 | 56.52 | 49.97 | 48.39 |
| 886-2049 | W92-X112-15 | 15 | 66.16 | 60.14 | 55.13 |
| 886-2050 | W92-X112-20 | 20 | 48.43 | 44.03 | 40.37 |
| 886-2051 | W92-X112-30 | 30 | 64.86 | 58.96 | 54.05 |
| 886-2087 | W92-X112-50 | 50 | 66.16 | 60.14 | 55.13 |

Three-Pole AC Type — Fig. C

|          |             |    |        |       |       |
|----------|-------------|----|--------|-------|-------|
| 886-2068 | W93-X112-5  | 5  | 81.98  | 76.13 | 64.15 |
| 886-2069 | W93-X112-10 | 10 | 81.98  | 75.96 | 67.09 |
| 886-2092 | W93-X112-15 | 15 | 101.62 | 92.38 | 84.68 |
| 886-2070 | W93-X112-20 | 20 | 95.64  | 88.62 | 78.27 |
| 886-2071 | W93-X112-25 | 25 | 81.98  | 75.96 | 67.09 |
| 886-2052 | W93-X112-30 | 30 | 101.62 | 92.38 | 84.68 |
| 886-2093 | W93-X112-40 | 40 | 106.53 | 91.94 | 85.37 |
| 886-2091 | W93-X112-50 | 50 | 90.95  | 85.37 | 79.68 |



Model W28 Fuseholder-Type Thermal Circuit Breaker

Single pole breakers occupy about the same space as fuseholders. Dielectric strength over 1,500 volts RMS. **Max. Operating Voltages:** 32 VDC, 250 VAC. **Approx. Weight:** 0.35 oz. (10 g). UL recognized, CSA certified.

| Stock No. | Mfr.'s Type   | Amps  | Trip Time @ 200% of Load | EACH |       |       |
|-----------|---------------|-------|--------------------------|------|-------|-------|
|           |               |       |                          | 1-24 | 25-49 | 50-99 |
| 886-2033  | W28-XQ1A-0.50 | 0.50  | 4.5-28 seconds @ +25°C   | 4.95 | 4.13  | 3.31  |
| 886-2074  | W28-XQ1A-1    | 1.00  | 4.5-28 seconds @ +25°C   | 4.88 | 4.31  | 3.93  |
| 886-2075  | W28-XQ1A-2    | 2.00  | 4.5-28 seconds @ +25°C   | 5.38 | 4.77  | 4.32  |
| 886-2076  | W28-XQ1A-3    | 3.00  | 2.2-15 seconds @ +25°C   | 2.54 | 2.24  | 2.04  |
| 886-2077  | W28-XQ1A-4    | 4.00  | 2.2-15 seconds @ +25°C   | 2.53 | 2.29  | 1.83  |
| 886-2078  | W28-XQ1A-5    | 5.00  | 2.2-15 seconds @ +25°C   | 2.78 | 2.45  | 2.23  |
| 886-2079  | W28-XQ1A-6    | 6.00  | 2.2-15 seconds @ +25°C   | 4.49 | 4.04  | 3.66  |
| 886-2080  | W28-XQ1A-7    | 7.00  | 2.2-15 seconds @ +25°C   | 2.77 | 2.45  | 2.23  |
| 886-2081  | W28-XQ1A-8    | 8.00  | 2.2-15 seconds @ +25°C   | 2.53 | 2.30  | 1.83  |
| 886-2082  | W28-XQ1A-10   | 10.00 | 2.2-15 seconds @ +25°C   | 2.53 | 2.24  | 2.04  |
| 886-2083  | W28-XQ1A-12   | 12.00 | 2.2-15 seconds @ +25°C   | 4.88 | 4.37  | 3.97  |
| 886-2085  | W28-XQ1A-15   | 15.00 | 2.2-15 seconds @ +25°C   | 2.78 | 2.45  | 2.23  |
| 886-2088  | W28-XQ1A-20   | 20.00 | 2.2-15 seconds @ +25°C   | 1.97 | 1.83  | 1.76  |

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