



## W33 series

### One- and Two-Pole Thermal Circuit Breaker



#### Features

- Combines on/off switch and circuit protection in a single unit.
- 2 to 20 amp ratings (<2A types available as special order).
- One or two pole sensing.
- Lighted or non-lighted rocker actuator in various colors.
- Convenient, snap-in mounting.
- Optional auxiliary switch available.
- Trip-free operation.

#### Agency Approvals

W33 series is UL1077 Recognized as Supplementary Protectors, File E69543 and CSA Certified as Appliance Component Protectors, File LR15734.

#### Electrical Data

**Calibration:** Breaker will continuously carry 100% of rated load. It may trip between 101% and 135% of rated load, but must trip at 135% within one hour at +25°C.

**Dielectric Strength:** Over 2,000 volts rms.

**Maximum Operating Voltages:** 50VDC; 250VAC to 400 Hz.

**Interrupt Capacity:** 1,000 amps at 50VDC; 250VAC, 60Hz.; 125/250VAC, 400 Hz.

1,500 amps at 125/250VAC, 60 Hz.

**Resettable Overload Capacity:** Ten times rated current.

#### Mechanical/Environmental Data

**Termination: Poles 1&2:** .250" (6.35mm) quick connect/solder terminals.

**Opt. Aux. Sw.:** .110" (2.79mm) quick connect terminals.

**Mounting:** Snaps into panel from front.

**Actuator:** Rocker or lighted rocker.

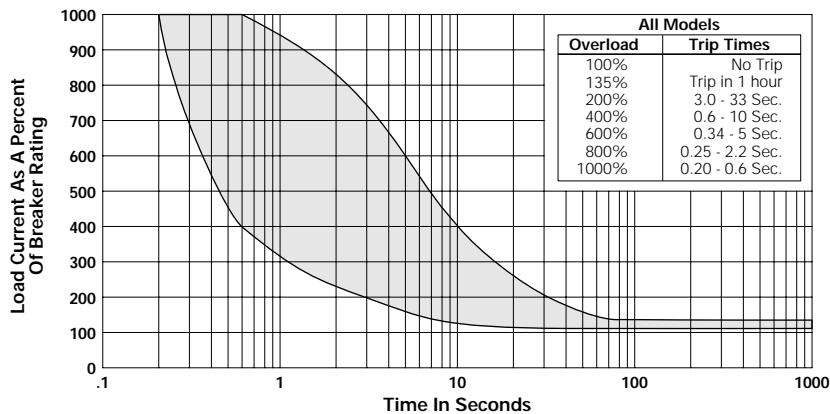
**Shock:** 30g tested to IEC 68-2-27, test Ea.

**Vibration:** 8g tested to IEC 68-2-6, test Fc.

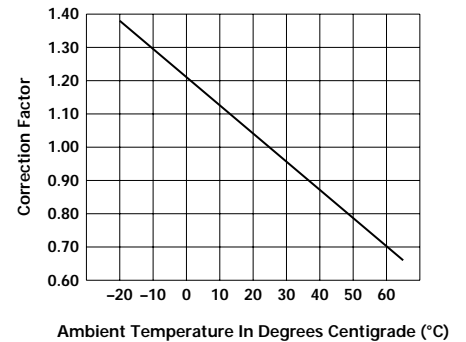
**Endurance Cycling:** 50,000 operations at rated load.

1,000 operations at 200% rated load.

#### Time vs. Current Trip Values @ 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.

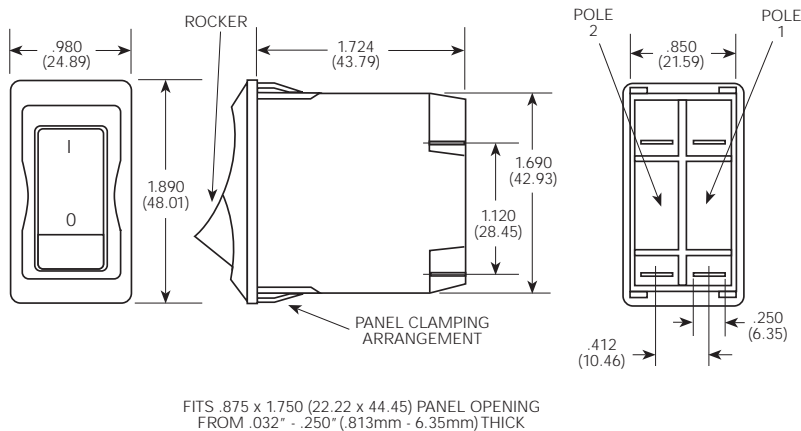
## Ordering Information

Typical Part Number ▶		W	33	-S	1	N	1	Q	-20
<b>1. Designator:</b> W = Circuit Breaker.									
<b>2. Series Number:</b> 33 = Two-pole rocker actuated.									
<b>3. Circuit Function:</b> S = Pole 1 – Switch only; Pole 2 – Series trip overload sensing. T = Poles 1 & 2 – Series trip overload sensing. SS = Same as S with auxiliary switch on pole 1. TS = Same as T with auxiliary switch on pole 1. D = 2 Pole switching.									
<b>4. Rocker Color:</b> 1 = Black.    2 = White.    3 = Red.    4 = Amber.    5 = Smoke.									
<b>5. Light (Available only with White, Red, Amber, and Smoke rocker colors):</b> A = 24VDC (Incandescent).    B = 120VAC (Neon with resistor).    C = 240VAC (Neon with resistor).    N = No light.									
<b>6. Marking:</b> 1 = International I/O.    2 = Contrasting I/O stamp (white toggle with black stamp).									
<b>7. Termination:</b> Q = .250" x .032" (6.35 x .813mm) quick connect/solder terminals.									
<b>8. Amp Rating:</b> 2    5    7    10    12    15    16    20    Consult factory for availability of ratings <2A									

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

Not presently a distributor stock item.

## Outline Dimensions



## Schematic

