

# Type CBW68

## Thermal Circuit Breaker

### Push to Reset – High Current



www.optifuse.com (619) 593-5050

RoHS  
Compliant

#### Specifications:

- Push to Reset – Standard Profile – High Current
- Amperage: 50A - 80A
- Voltage: 125 VAC / 250 VAC / 50 VDC
- Dielectric Strength: 1500 VAC / 1 Minute
- Interrupt Capacity: 1000A @ 125 VAC, 200A @ 250 VAC
- Insulation Resistance: > 500M  $\Omega$
- Contact Endurance: 125 VAC @ 150% of Rated Current > 500 Cycles.
- Reset Time: < 60 seconds

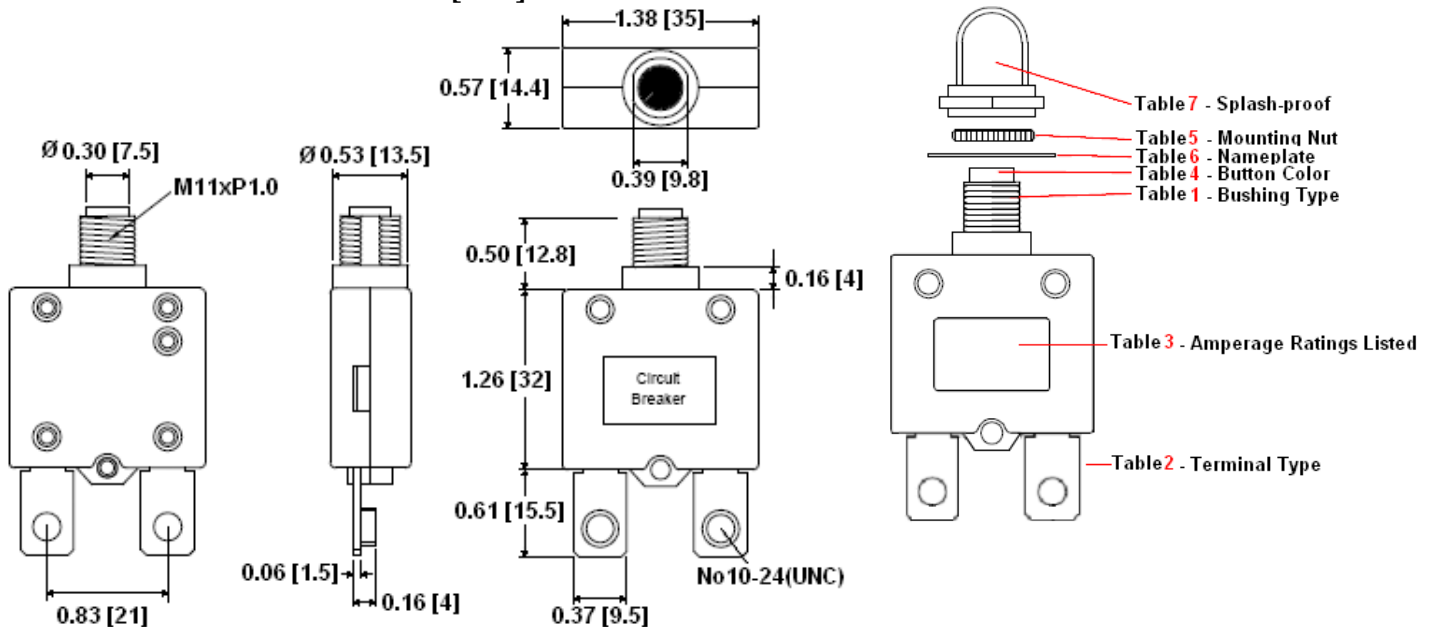


#### Calibration @ 25°C:

- 100% of Rated Current – Hold, No Trip
- 150% of Rated Current - Trip Within 1 Hour
- 200% of Rated Current - 8.5-45.0 sec
- 300% of Rated Current - 3.2-8.2 sec

#### Part / Accessories Descriptions:

#### Mechanical Dimensions: Inches [mm]



	<p><b>Warning:</b> -Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.</p>
	<p>-Devices are intended for occasional overcurrent protection. Applications for repeated overcurrent condition and/or prolonged trip are not anticipated.</p>
	<p>-Avoid contact of device with chemical solvent. Prolonged contact may damage the device performance.</p>

Note: All specifications subject to change without notice.

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Code K01-01H

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## Mechanical Dimensions: Inches [mm]

Part Number Information									
<b>CBW68-</b>	<b>X</b>	<b>Y</b>	<b>-</b>	<b>ZZ</b>	<b>-</b>	<b>B</b>	<b>N</b>	<b>P</b>	<b>S</b>
	Table 1	Table 2		Table 3		Table 4	Table 5	Table 6	Table 7

## Mechanical Dimensions: Inches [mm]

**Table 1 - Where X is Bushing Style**

<b>H</b>	<b>Metal</b> M11 – 10.8 mm diameter - 9.8 mm pinch point – 12.6 mm high
<b>V</b>	<b>Metal</b> M12 - 11.8 mm diameter – 10.7 mm pinch point – 12.6 mm high
<b>G</b>	<b>Metal</b> 3/8” 27 Thread – 9.5 mm diameter – 8.5 mm pinch point – 12.6 mm high
<b>P</b>	<b>Plastic</b> M11 – 10.8 mm diameter - 9.8 mm pinch point – 12.6 mm high
<b>Q</b>	<b>Plastic</b> M12 – 11.8 mm diameter – 10.7 mm pinch point – 12.6 mm high
<b>E</b>	<b>Plastic</b> 3/8” 27 Thread – 9.5 mm diameter – 8.5 mm pinch point – 12.6 mm high

			Measurements	
A	0.43	[10.8]		
B	0.53	[13.5]		
C	0.39	[9.8]		
D	0.50	[12.6]		
E	0.46	[11.8]		
F	0.42	[10.7]		
J	0.33	[8.5]		
K	0.37	[9.5]		
X	0.16	[4.0]		
Y	0.06	[1.5]		

	H - Metal M11XP1.0	V - Metal M12XP1.0	G - Metal 3/8"-27T
<b>P - Plastic M11XP1.0</b>	<b>Q - Plastic M12XP1.0</b>	<b>E - Plastic 3/8"-27T</b>	

Bushing Type vs. Panel Hole	H, P	V, Q	G, E

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## Thermal Circuit Breaker

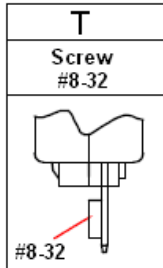
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#### Mechanical Dimensions: Inches [mm]

**Table 2 - Where Y is Terminal Configuration**



#### Where ZZ is Amperage

50A to 80A

**Table 3 - Where ZZ is Amperage**

**50-80A** (50, 55, 60, 65, 70, 75, 80)

The above represents only standard current rates. Please contact factory for additional ratings.

**Table 4 - Where B is Button Color**

<b>Blank</b>	Black Button	
<b>W</b>	White Button	
<b>R</b>	Red Button	
<b>1</b>	Black Button w/ Amperage in White	
<b>5</b>	White Button w/ Amperage in Black	
<b>6</b>	Red Button w/ Amperage in White	

**Table 5 - Where N is Nut Type**

Blank	H	C	P	Q	X
<b>Metal</b> Knurlnut	<b>Metal</b> Hexnut (M11xP1.0) H=0.55[14] (M12xP1.0) H=0.59[15]	<b>Metal</b> Knurlnut	<b>Plastic</b> Integrated Knurlnut	<b>Plastic</b> Knurlnut	<b>Plastic</b> Integrated Knurlnut

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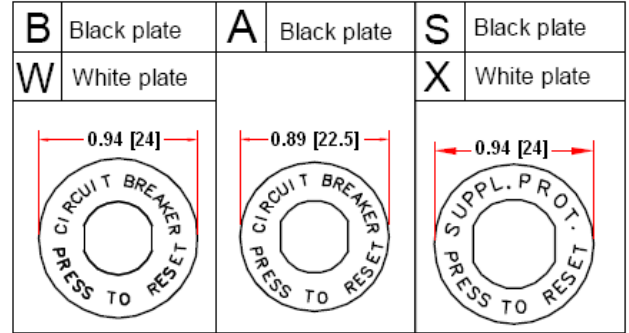


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## Mechanical Dimensions: Inches [mm]

**Table 6 - Where P is Nameplate**

<b>Blank</b> = None		
<b>B</b>	Black nameplate	Circuit Breaker Press to Reset
<b>W</b>	White nameplate	Circuit Breaker Press to Reset
<b>A</b>	Black nameplate	Circuit Breaker Press to Reset
<b>S</b>	Black nameplate	Suppl. Prot. Press to Reset
<b>X</b>	White nameplate	Suppl. Prot. Press to Reset



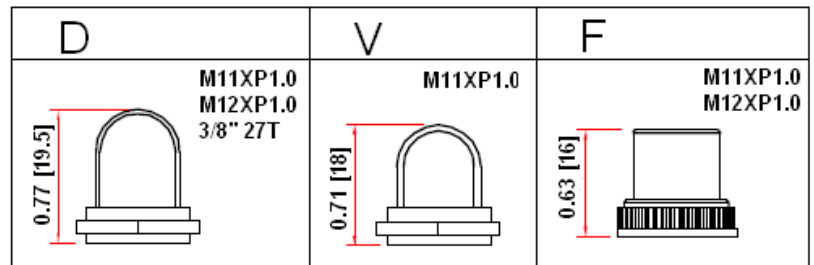
**Table 7 - Where S is Splash-proof**

**Blank** – None

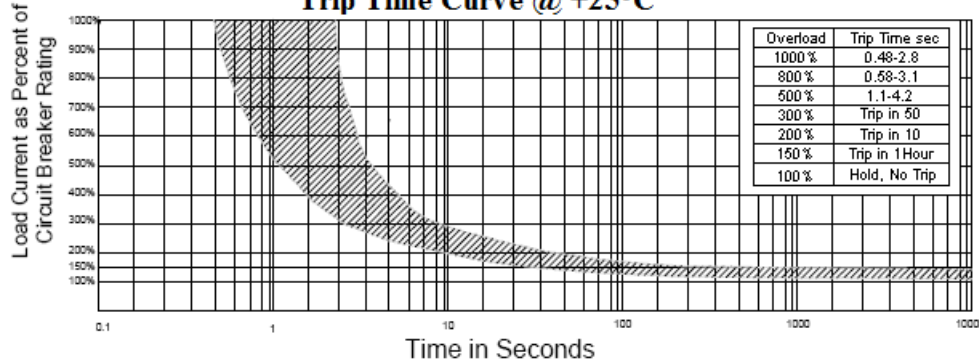
**D** – For H, P, V, Q, G, E Bushing Styles only

**V** – For H, P Bushing Styles only

**F** – For H, P, V, Q Bushing Styles only

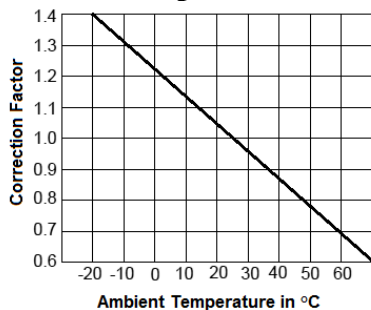


**Trip Time Curve @ +25°C**



Max. Internal Resistance	
50A	< 0.007Ω
60A	< 0.007Ω
70A	< 0.007Ω
80A	< 0.007Ω

**Ambient Compensation Chart**



**Ambient Temperature Correction Factor:**

The time/current characteristic curve depends on the ambient temperature prevailing. In order to eliminate nuisance tripping, please multiply the current breaker current ratings by the derating factor shown above.

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