

# Type CBW68

## Thermal Circuit Breaker

### Push to Reset – High Current



www.optifuse.com (619) 593-5050

#### Specifications:

- Push to Reset – Standard Profile – High Current
- Amperage: 40A - 80A
- Voltage: 125 VAC / 250 VAC / 50 VDC
- Dielectric Strength: 1500 VAC / 1 Minute
- Interrupting Rating: 40-80A 1000A @ 125/250 VAC  
40-80A 300A @ 50 VDC
- Insulation Resistance: > 100M Ω
- Contact Endurance: 125 VAC @ 150% of  
Rated Current > 500 Cycles.
- Reset Time: < 60 seconds

#### Agency Standards and Listings:

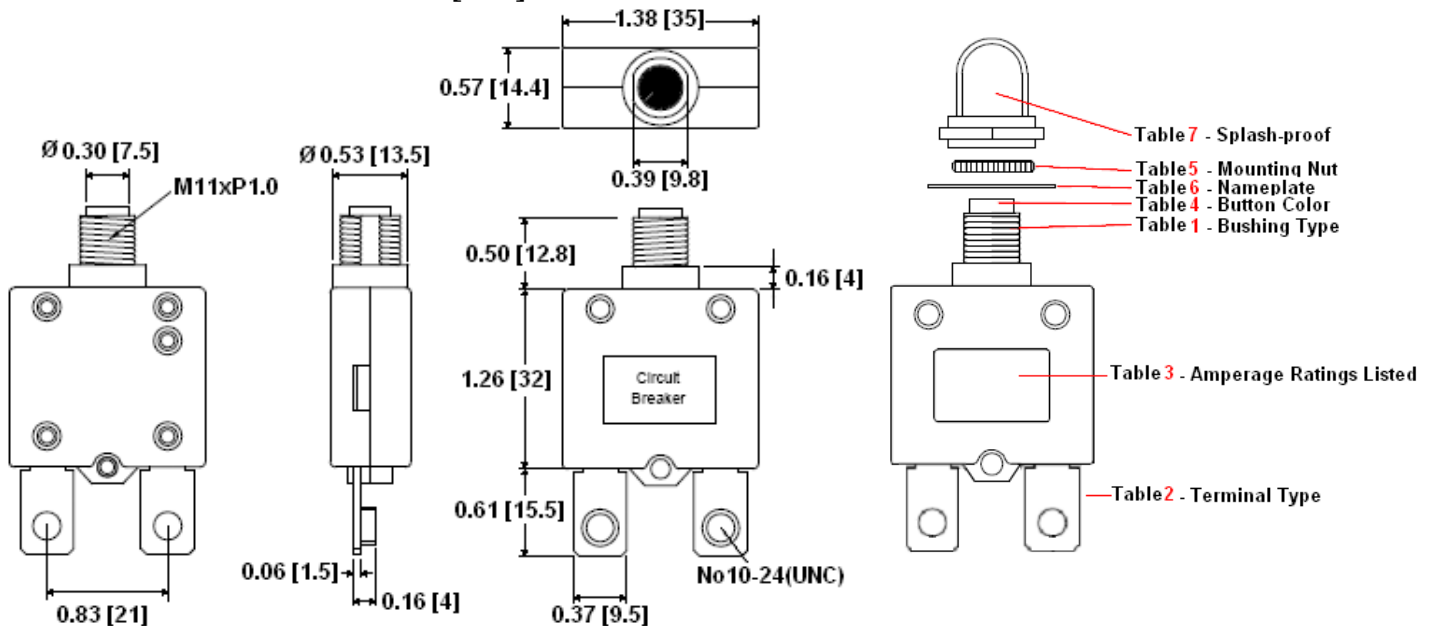


#### Calibration @ 25°C:

- 100% of Rated Current - Hold, No Trip
- 150% of Rated Current - Trip Within 1 Hour
- 200% of Rated Current - 6 - 45.0 sec
- 300% of Rated Current - 3.2 - 8.2 sec

- Torque Rating - plastic nut on plastic thread: 6KGfcm
- metal nut on metal thread: 10KGfcm
- metal nut on plastic thread: 6KGfcm

#### Mechanical Dimensions: Inches [mm]



#### Part / Accessories Descriptions:

#### Warning:



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

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>	Plastic M11 – 10.8 mm diameter - 9.8 mm pinch point – 12.6 mm high
<b>Q</b>	Plastic M12 – 11.8 mm diameter – 10.7 mm pinch point – 12.6 mm high
<b>E</b>	Plastic 3/8” 27 Thread – 9.5 mm diameter – 8.5 mm pinch point – 12.6 mm high
<b>A</b>	Automatic Reset – No Bushing

<b>H - Metal M11XP1.0</b>	<b>V - Metal M12XP1.0</b>	<b>G - Metal 3/8"-27T</b>	<b>A -Automatic, No Bushing</b>
<b>P - Plastic M11XP1.0</b>	<b>Q - Plastic M12XP1.0</b>	<b>E - Plastic 3/8"-27T</b>	<b>Measurements</b>
			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]

<b>Bushing Type vs. Panel Hole</b>	<b>H, P</b>	<b>V, Q</b>	<b>G, E</b>

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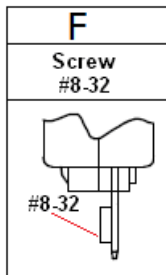
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#### Mechanical Dimensions: Inches [mm]

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



**Table 3 - Where ZZ is Amperage**

**40 - 80A** (40, 45, 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 Knurlnut</b> 	<b>Metal Hexnut</b> (M11xP1.0) H=0.55[14] (M12xP1.0) H=0.59[15] 	<b>Metal Knurlnut</b> 	<b>Plastic Integrated Knurlnut</b> 	<b>Plastic Knurlnut</b> 	<b>Plastic Integrated Knurlnut</b> 
<b>For Bushings:</b> H, V, P, Q <b>Not available for G or E</b>	<b>For Bushings:</b> H, V, G, P, Q, E	<b>For Bushings:</b> H, V, P, Q <b>Not available for G or E</b>	<b>For Bushings:</b> H, V, G, P, Q, E	<b>For Bushings:</b> H, V, G, P, Q, E Default for G and E	<b>For Bushings:</b> H, V, G, P, Q, E

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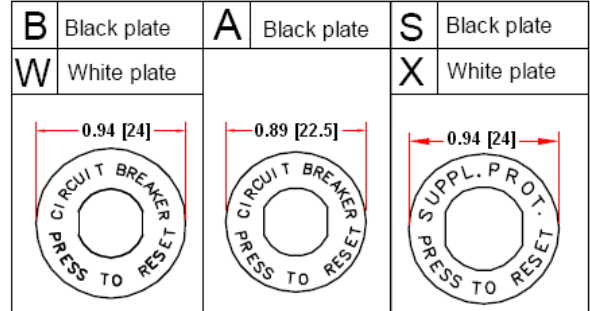


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## Mechanical Dimensions: Inches [mm]

**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**

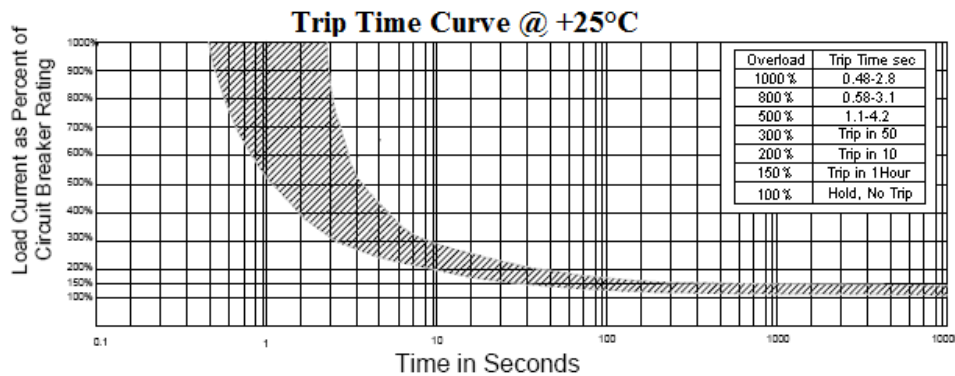
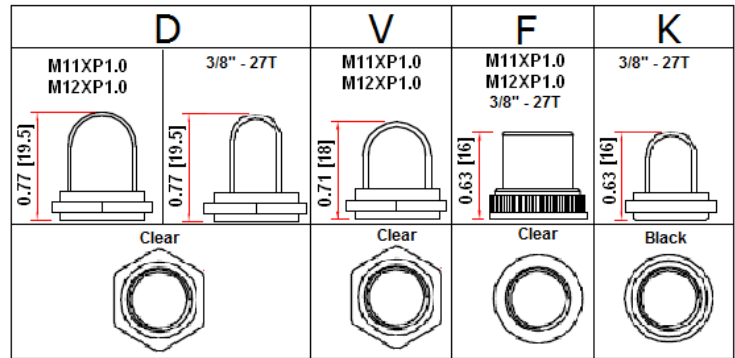
**Blank** – None

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

**V** - For H, V, P, Q Bushing Styles only

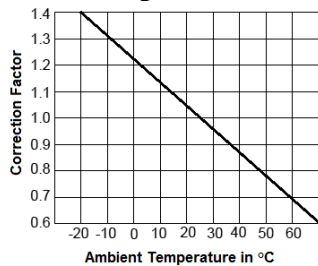
**F** - For H, V, G, P, Q, E Bushing Styles only

**K** - For G, E Bushing Styles only



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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