

# Type CBW58

## Thermal Circuit Breaker

### Push to Reset – Standard Profile



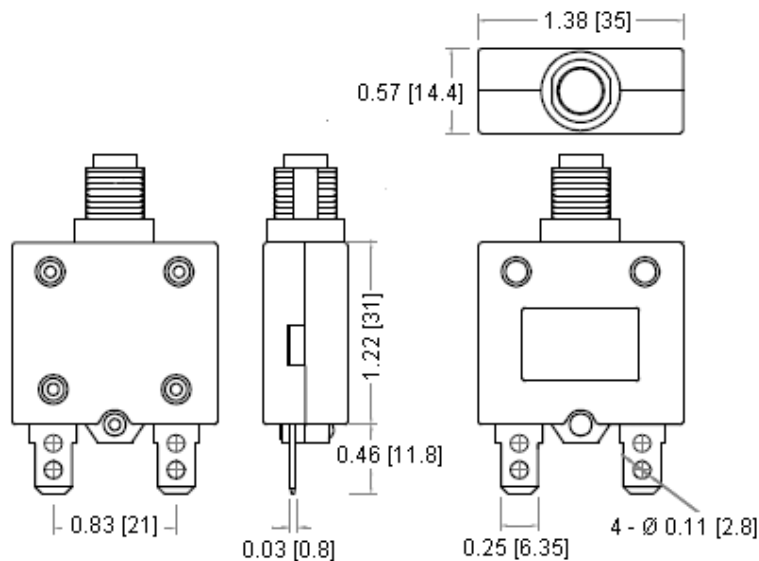
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#### Specifications:

Push to Reset – Standard Profile  
 Amperage Range: 3A - 50A  
 Voltage: 125 / 250 VAC, 32 VDC  
 Frequency: 50-60 Hz  
 Dielectric Strength: 1,500 VAC / 1 Minute  
 Interrupt Capacity:  
     1500A @ 125 VAC, 200A @ 250 VAC, 1500A @ 32VDC  
 Marine Ignition Protected to SAE J1171  
 Insulation Resistance: > 500M Ω  
 Contact Endurance: 125 VAC @ 150% of Rated Current-500 Cycles.  
 Reset Time: 60 seconds  
 Body – Black  
 Terminal Finish – Tin Plated

Time-Current Characteristics @ 25°C			
100%	150%	200%	300%
Max	Max	Max	Max
No trip	1hr	40s	10s

#### Mechanical Dimensions: Inches [mm]



#### Agency Standards and Listings:



RoHS  
Compliant

UL 1077 Recognized: 3A-30A, 125 / 250 VAC

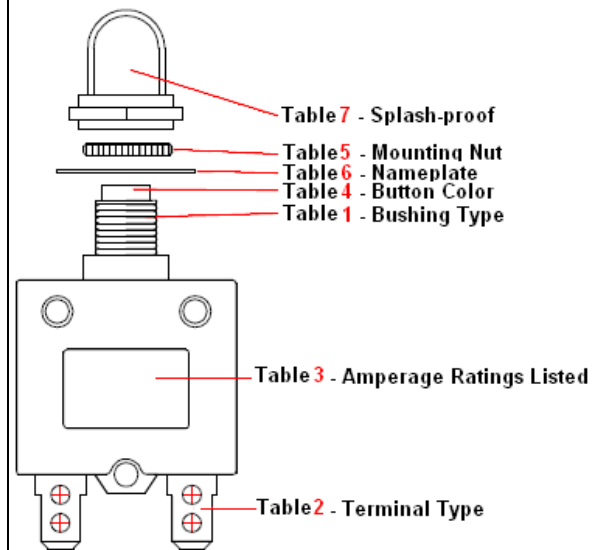
CSA: 3A-30A, 125 / 250 VAC

CE: 3-30A

TUV: 3-30A, 125 / 250 VAC, 32 VDC

VDE: 3A-16A, 125 / 250 VAC, 32 VDC

#### Part / Accessories Descriptions:



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Part Number Information									
<b>CBW58-</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>
	<b>Table 1</b>	<b>Table 2</b>		<b>Table 3</b>		<b>Table 4</b>	<b>Table 5</b>	<b>Table 6</b>	<b>Table 7</b>

## 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>M</b>	<b>Metal</b> 7/16” 17 Thread – 11 mm diameter – 9.8 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>R</b>	Plastic – Snap-in – 9.8mm high				
<b>A</b>	Automatic Reset – No Bushing				
<b>H - Metal</b> M11XP1.0	<b>V - Metal</b> M12XP1.0	<b>G - Metal</b> 3/8"-27T	<b>M - Metal</b> 7/16"-17T	<b>A - Automatic, No Bushing</b>	
<b>P - Plastic</b> M11XP1.0	<b>Q - Plastic</b> M12XP1.0	<b>E - Plastic</b> 3/8"-27T	<b>R - Plastic</b> Snap in	<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]	
				G 0.62 [15.8]	
				H 0.54 [13.8]	
				J 0.33 [8.5]	
				K 0.37 [9.5]	
				L 0.43 [11.0]	
				X 0.16 [4.0]	
				Y 0.06 [1.5]	
				Z 0.06 [1.6]	
<b>Bushing Type vs. Panel Hole</b>	<b>H or P</b>	<b>V or Q</b>	<b>G or E</b>	<b>M</b>	<b>R</b>

Note: All specifications subject to change without notice.

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## Mechanical Dimensions: Inches [mm]

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

S	B	R	4	5	6	7
Straight 0.46 [11.8]	90° Bend	90° Reverse Bend	90° Bend Line Pin	90° Bend Load Pin	Straight 0.31 [8]	90° Bend Reverse Bend
8	9	X	F	E	J	L4
45° Bend	45° Reverse Bend	Straight 0.13 [3.2]	Screw #8-32	Screw #8-32 90° Bend	Screw #8-32 90° Reverse Bend	Screw #8-32 90° Bend Line Pin

**Table 3 - Where ZZ is Amperage**

**3-50A** (03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 15, 16, 18, 20, 22, 25, 30, 35, 40, 45, 50)

See comments on first page for approvals information.

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	

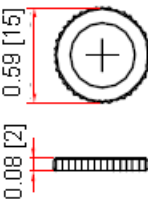
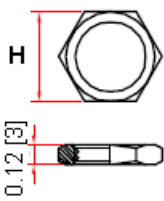

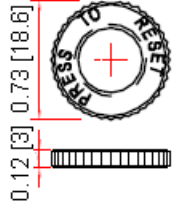
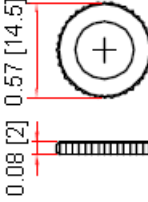

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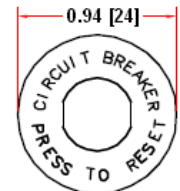
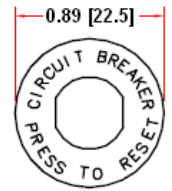
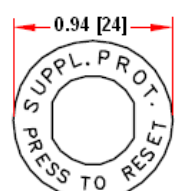
## Mechanical Dimensions: Inches [mm]

**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
					

**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

<b>B</b>	Black plate	<b>A</b>	Black plate	<b>S</b>	Black plate
<b>W</b>	White plate			<b>X</b>	White plate
					

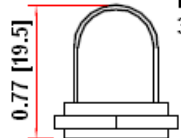
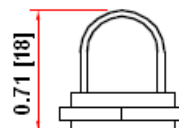

**Table 7 - Where S is Splash-proof**

**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

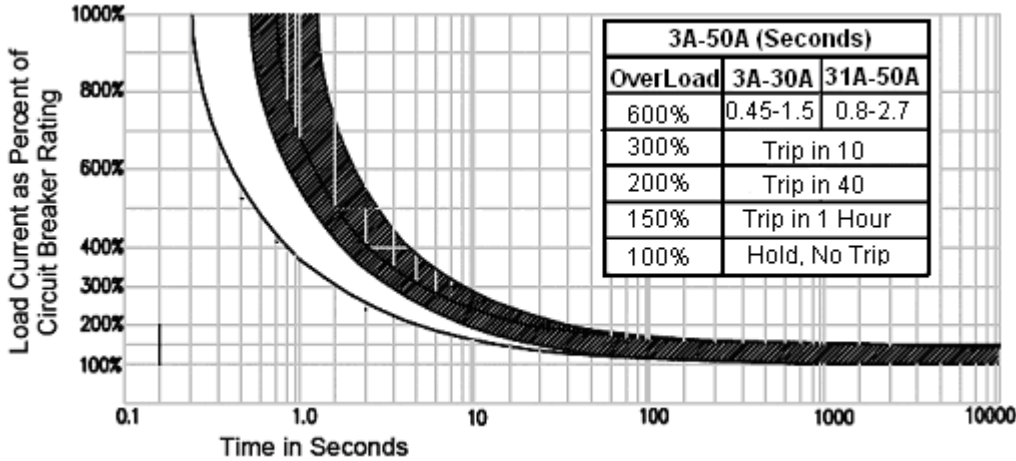
D	V	F
		
M11XP1.0 M12XP1.0 3/8" 27T	M11XP1.0	M11XP1.0 M12XP1.0

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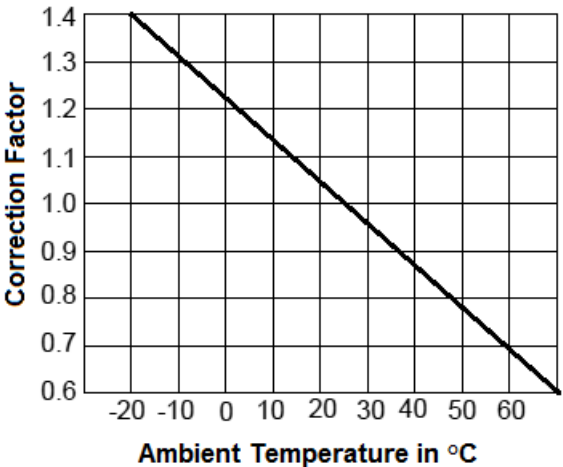


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**Trip Time Curve @ +25°C**




**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.

<p><b>Warning:</b></p> 	<ul style="list-style-type: none"> <li>-Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.</li> <li>-Devices are intended for occasional overcurrent protection. Applications for repeated overcurrent condition and/or prolonged trip are not anticipated.</li> <li>-Avoid contact of device with chemical solvent. Prolonged contact may damage the device performance.</li> </ul>
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