

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:



RoHS
Compliant



Calibration @ 25°C:

100% of Rated Current - Hold, No Trip

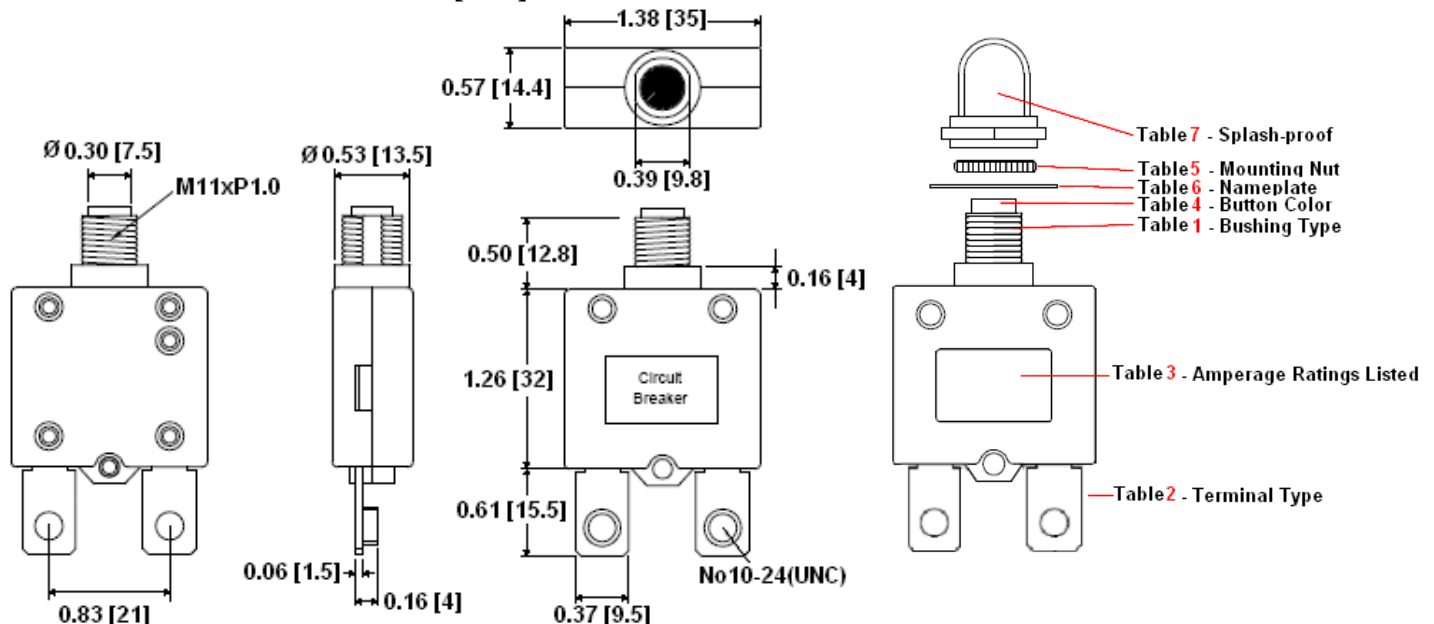
150% of Rated Current - Trip Within 1 Hour

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]



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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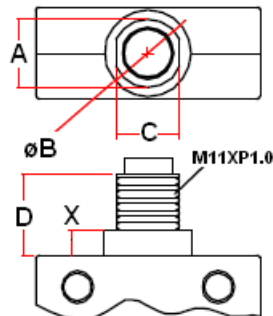
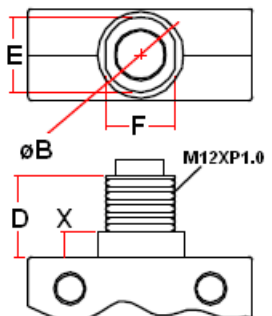
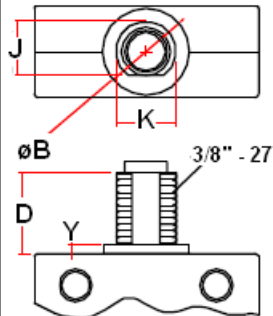
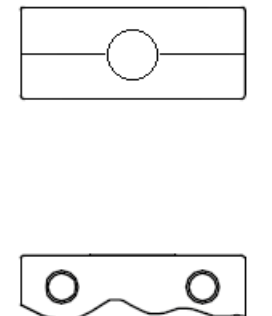
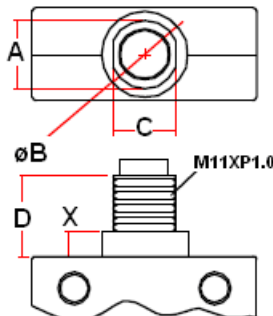
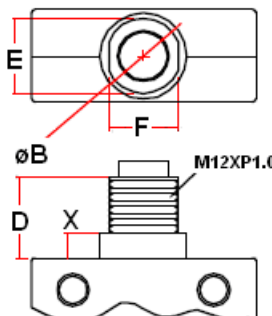
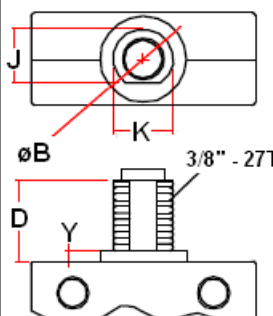
Mechanical Dimensions: Inches [mm]

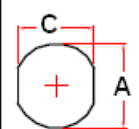
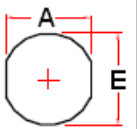
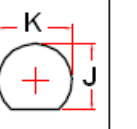
Part Number Information									
CBW68-	X	Y	-	ZZ	-	B	N	P	S
	Table 1	Table 2		Table 3		Table 4	Table 5	Table 6	Table 7

Mechanical Dimensions: Inches [mm]

Table 1 - Where X is Bushing Style

H	Metal M11 – 10.8 mm diameter - 9.8 mm pinch point – 12.6 mm high		
V	Metal M12 - 11.8 mm diameter – 10.7 mm pinch point – 12.6 mm high		
G	Metal 3/8” 27 Thread – 9.5 mm diameter – 8.5 mm pinch point – 12.6 mm high		
P	Plastic M11 – 10.8 mm diameter - 9.8 mm pinch point – 12.6 mm high		
Q	Plastic M12 – 11.8 mm diameter – 10.7 mm pinch point – 12.6 mm high		
E	Plastic 3/8” 27 Thread – 9.5 mm diameter – 8.5 mm pinch point – 12.6 mm high		
A	Automatic Reset – No Bushing		

H - Metal M11XP1.0	V - Metal M12XP1.0	G - Metal 3/8"-27T	A -Automatic, No Bushing																				
																							
P - Plastic M11XP1.0	Q - Plastic M12XP1.0	E - Plastic 3/8"-27T	Measurements																				
			<table><tr><td>A</td><td>0.43 [10.8]</td></tr><tr><td>B</td><td>0.53 [13.5]</td></tr><tr><td>C</td><td>0.39 [9.8]</td></tr><tr><td>D</td><td>0.50 [12.6]</td></tr><tr><td>E</td><td>0.46 [11.8]</td></tr><tr><td>F</td><td>0.42 [10.7]</td></tr><tr><td>J</td><td>0.33 [8.5]</td></tr><tr><td>K</td><td>0.37 [9.5]</td></tr><tr><td>X</td><td>0.16 [4.0]</td></tr><tr><td>Y</td><td>0.06 [1.5]</td></tr></table>	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]
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Bushing Type vs. Panel Hole	H, P	V, Q	G, E
			

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Table 2 - Where Y is Terminal Configuration

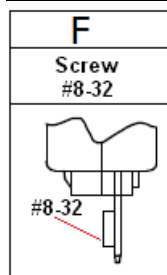


Table 3 - Where ZZ is Amperage

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

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

Table 5 - Where N is Nut Type

Blank	H	C	P	Q	X
Metal Knurlnut	Metal Hexnut (M11xP1.0) H=0.55[14] (M12xP1.0) H=0.59[15]	Metal Knurlnut	Plastic Integrated Knurlnut	Plastic Knurlnut	Plastic Integrated Knurlnut
For Bushings: H, V, P, Q Not available for G or E	For Bushings: H, V, G, P, Q, E	For Bushings: H, V, P, Q Not available for G or E	For Bushings: H, V, G, P, Q, E	For Bushings: H, V, G, P, Q, E Default for G and E	For Bushings: H, V, G, P, Q, E

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Table 6 - Where P is Nameplate

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

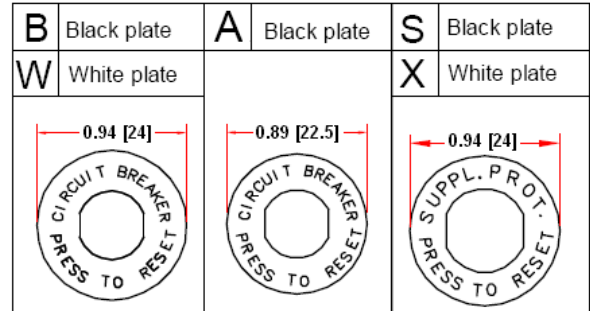


Table 7 - Where S is Splash-proof

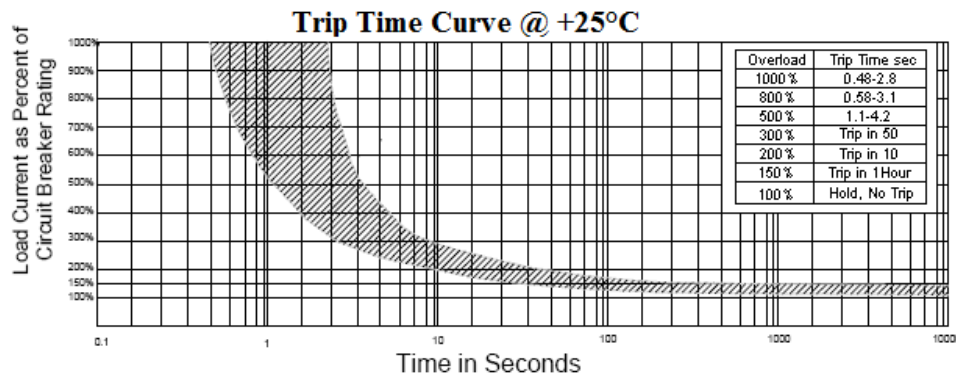
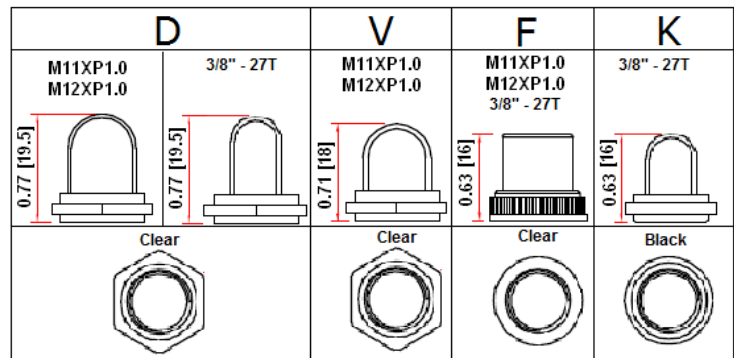
Blank – None

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

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

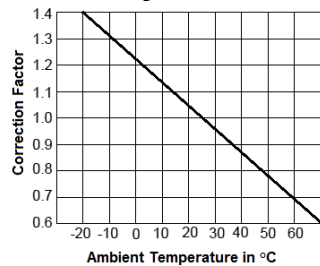
F - For H, V, G, P, Q, E Bushing Styles only

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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