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

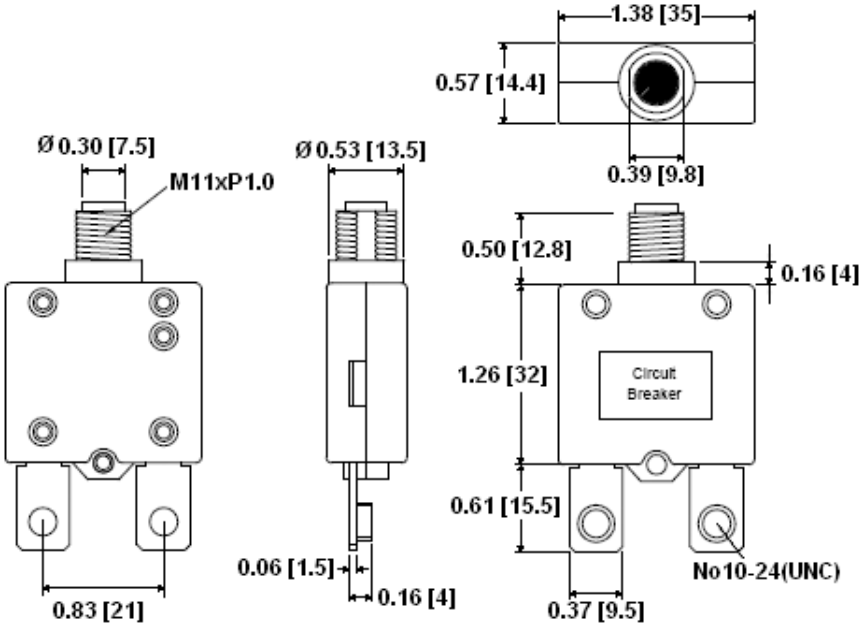
Agency Standards and Listings:

RoHS Compliant

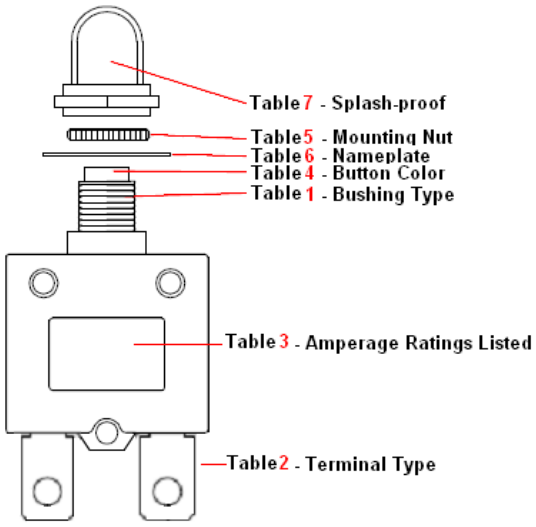
Calibration @ 25°C:

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

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.

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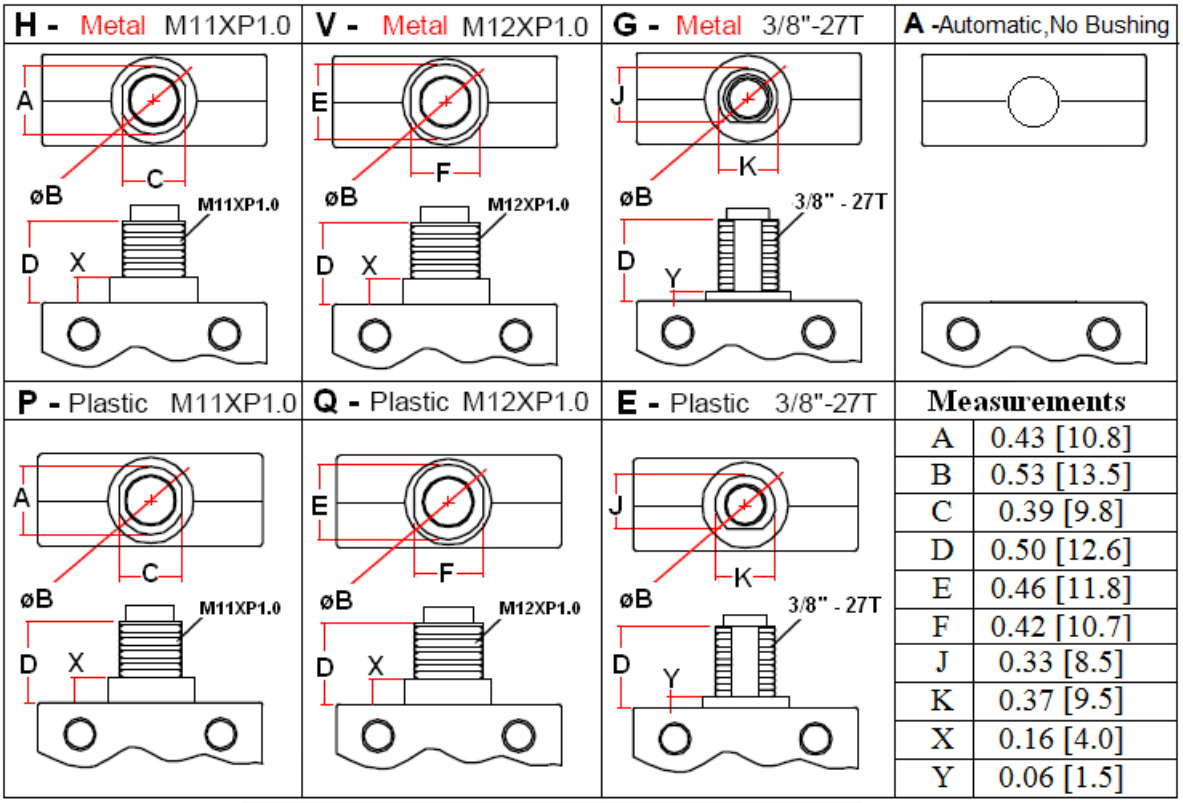
Mechanical Dimensions: Inches [mm]

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



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]

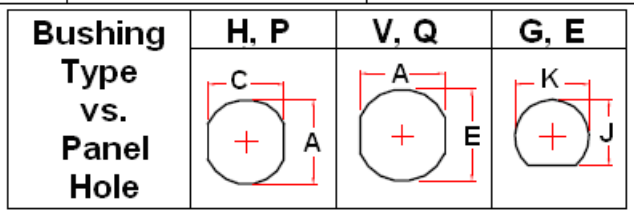


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Table 2 - Where Y is Terminal Configuration

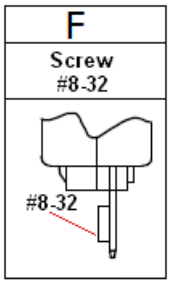


Table 3 - Where ZZ is Amperage

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

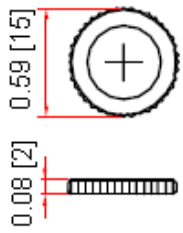
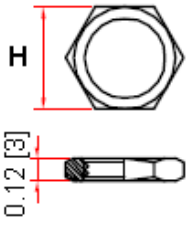
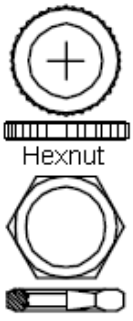
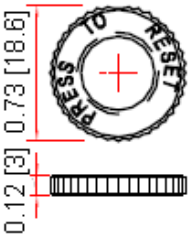
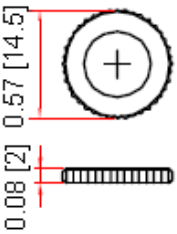
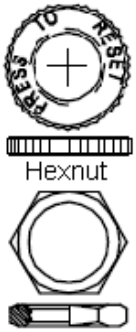
Blank	H	C	P	Q	X
Metal Knurlnut 	Metal Hexnut (M11xP1.0) H=0.55[14] (M12xP1.0) H=0.59[15] 	Metal Knurlnut 	Plastic Integraged Knurlnut 	Plastic Knurlnut 	Plastic Integraged Knurlnut 
For Bushings: H, V, P, Q Not available for G or E	For Bushings: H, V, G, P, Q, E	For Bushings: H, V, P, Q Not available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

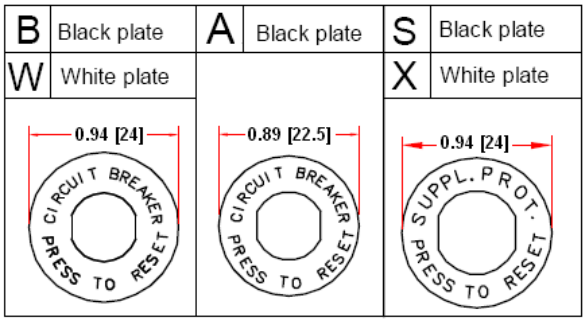


Table 7 - Where S is Splash-proof

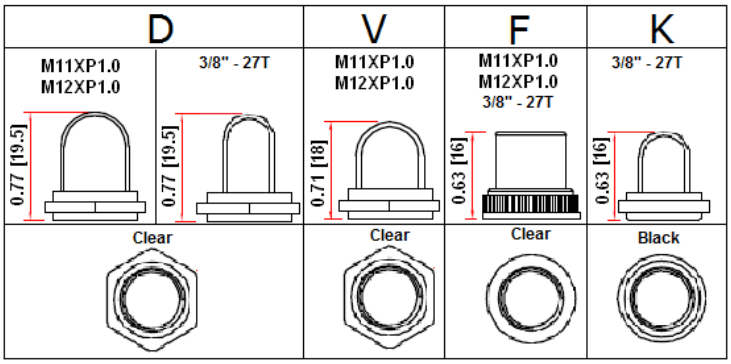
Blank – None

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

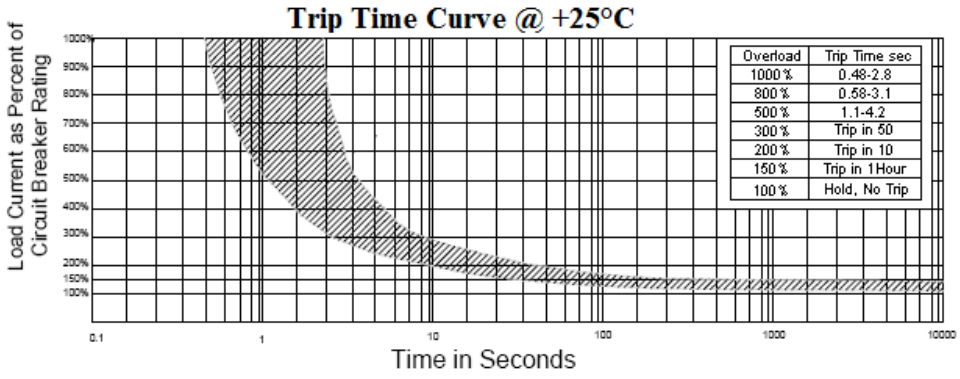
V - For H, V, P, Q Bushing Styles only

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

K - For G, E Bushing Styles only

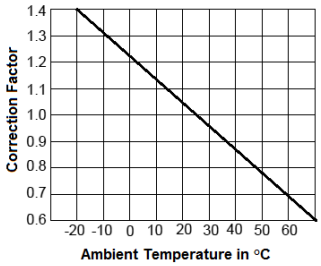


Trip Time Curve @ +25°C



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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