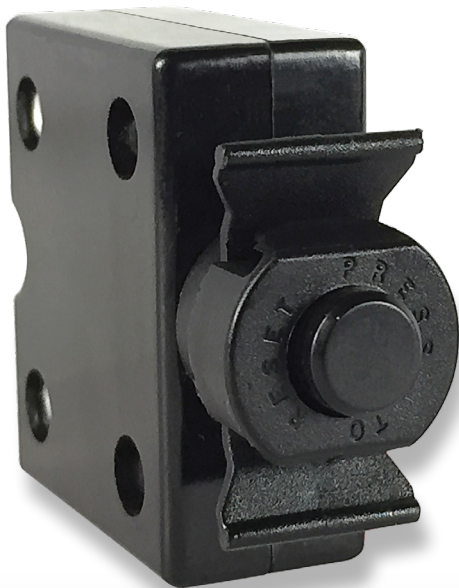
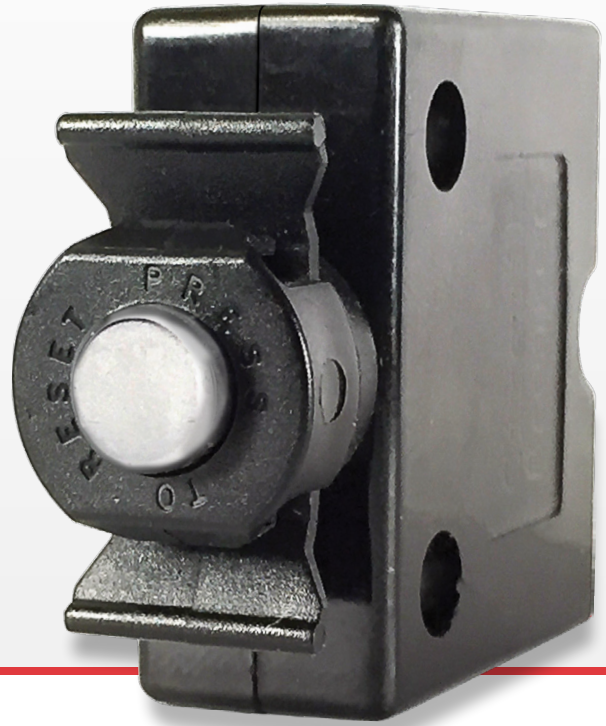


CLB-Series

Thermal Circuit Breaker

PRODUCT WEBPAGE

request sample, configure part



The CLB-Series is a compact, single pole, push-to-reset family of thermal circuit breakers designed to protect equipment. Utilizing simple, precision design with few moving parts, these breakers offer cost effective, extremely reliable circuit protection with high resistance against shock and vibration.

1	3-60	125-250	32
Pole	Amps	VAC Max	VDC Max

Typical Applications

- Household Appliances
- Marine
- Medical Equipment
- Exercise Equipment
- On/Off-Highway
- Power Strips and Supplies
- Audio Visual Equipment
- ROHS Compliant

Ordering Scheme

Sample Part Number **CLB - 10 3 - 12 C 3 N - B - A / 10**

Selection 1 2 3 4 5 6 7 8 9 10

1. SERIES

CLB

2. RATING

03	3 amps	10	10 amps	25	25 amps
04	4 amps	12	12 amps	30	30 amps
05	5 amps	13	13 amps	35	35 amps
06	6 amps	15	15 amps	40	40 amps
07	7 amps	18	18 amps	50	50 amps ¹²
08	8 amps	20	20 amps	60	60 amps ¹²

3. VOLTAGE

3 125-250VAC / 32 VDC

4. MOUNTING HOLE ⁹ see next page for diagram

11	M11 ¹
12	M12 ²
00	Snap In Style ³
27	3/8" 27 UNS ⁴

5. BUSHING ⁹ see next page for diagram

METAL		PLASTIC	
A	Type A ⁶	C	Type C ⁵
B	Type B ¹⁶	D	Type D ⁷
J	Type J ⁸	E	Type E ⁸

6. MOUNTING NUT ⁹ see next page for diagram

N	None	5	Type 5
1	Type 1	6	Type 6 ^{4,14}
2	Type 2	7	Type 7 ⁴
3	Type 3 ¹⁷	8	Type 8 ⁴
4	Type 4		

7. INDICATOR PLATE ⁹ see next page for diagram

N	None	B	Silver Printing on Black
A	Embossed Legend		

8. BUTTON

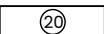
B	Black	R	Red	W	White
---	-------	---	-----	---	-------

9. TERMINAL ^{10,11,15} see next page for diagram

A	Type A	E	Type E	J	Type J
B	Type B	F	Type F	K	Type K
C	Type C	G	Type G	R	Type R
D	Type D	H	Type H		

10. BUTTON MARKING (IF BLANK, NO MARKING) ¹³

Button Marking Orientation:

line  load

03	3 amp	10	10 amp	25	25 amp
04	4 amp	12	12 amp	30	30 amp
05	5 amp	13	13 amp	35	35 amp
06	6 amp	15	15 amp	40	40 amp
07	7 amp	18	18 amp	50	50 amp
08	8 amp	20	20 amp	60	60 amp

Notes: Tolerance ±.005 [127] unless otherwise specified.

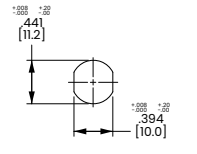
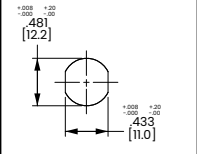
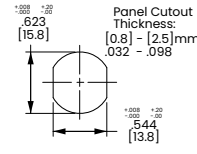
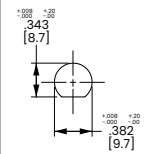
- 1 Used with bushing A or B only.
- 2 Used with bushing A or C only.
- 3 Used with bushing D only.
- 4 Used with bushing E & J only.
- 5 Used with M12 mounting hole only.
- 6 Used with M11 and M12 mounting hole only.
- 7 Used with mounting hole 00 only.
- 8 Used with 27 mounting hole only.
- 9 All hardware available separately.
- 10 Greater than 35 amp rating must use solder joint to connect wire to non-screw type terminals.
- 11 Terminals are .040 [1.0] thickness for ratings greater than 35 amps. Terminals are .315 [0.8] thickness for ratings less than 35 amps.
- 12 Available only with 10-24 unc. screw terms. (select type F, G, H, J only.) UL, CUL only.
- 13 Amp rating must match button marking (ex: "20" will be marked on the button of the breaker) Thickness is 3.0 mm, .118 in.
- 14 Thickness is 3.0 mm, .118 in.
- 15 Screw terminals are 8-32 UNC.
- 16 Used with M11 mounting hole only.
- 17 Includes molded in "PRESS TO RESET" marking.

[Configure Complete Part Number >](#)

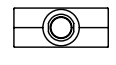
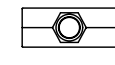
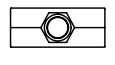
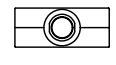

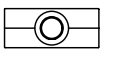
[Browse Standard Parts >](#)

Ordering Scheme Diagrams

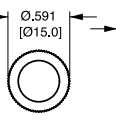
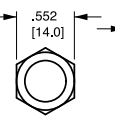
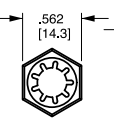
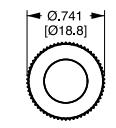
4. MOUNTING HOLE

 <p> $\begin{matrix} +.008 & -.002 \\ 44 \\ [11.2] \end{matrix}$ $\begin{matrix} +.008 & -.002 \\ .394 \\ [10.0] \end{matrix}$ </p>	 <p> $\begin{matrix} +.008 & -.002 \\ 48 \\ [12.2] \end{matrix}$ $\begin{matrix} +.008 & -.002 \\ .433 \\ [11.0] \end{matrix}$ </p>	 <p> Panel Cutout Thickness: $[0.8] - [2.5] \text{mm}$ $.032 - .098$ </p> <p> $\begin{matrix} +.008 & -.002 \\ .623 \\ [15.8] \end{matrix}$ $\begin{matrix} +.008 & -.002 \\ .544 \\ [13.8] \end{matrix}$ </p>	 <p> $\begin{matrix} +.008 & -.002 \\ .343 \\ [8.7] \end{matrix}$ $\begin{matrix} +.008 & -.002 \\ .382 \\ [9.7] \end{matrix}$ </p>
11	12	00	27

5. BUSHING

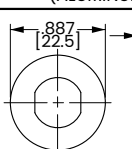
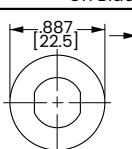
METAL			PLASTIC		
					
$\begin{matrix} .496 \\ [12.6] \end{matrix}$ $\begin{matrix} .158 \\ [4.0] \end{matrix}$	$\begin{matrix} .496 \\ [12.6] \end{matrix}$ $\begin{matrix} .049 \\ [1.25] \end{matrix}$	$\begin{matrix} .531 \\ [13.5] \end{matrix}$ $\begin{matrix} .059 \\ [1.5] \end{matrix}$	$\begin{matrix} .496 \\ [12.6] \end{matrix}$ $\begin{matrix} .158 \\ [4.0] \end{matrix}$	$\begin{matrix} .118 \\ [3.0] \end{matrix}$ $\begin{matrix} .433 \\ [11.0] \end{matrix}$	$\begin{matrix} .535 \\ [13.6] \end{matrix}$ $\begin{matrix} .063 \\ [1.60] \end{matrix}$
TYPE A	TYPE B	TYPE J	TYPE C	TYPE D	TYPE E

6. MOUNTING NUT

METAL	METAL PAL	PLASTIC	HEX BOOT
			
$\begin{matrix} \text{Ø} .591 \\ [Ø15.0] \end{matrix}$ $\begin{matrix} .099 \\ [2.5] \end{matrix}$	$\begin{matrix} .552 \\ [14.0] \end{matrix}$ $\begin{matrix} .110 \\ [2.8] \end{matrix}$	$\begin{matrix} .562 \\ [14.3] \end{matrix}$ $\begin{matrix} .094 \\ [2.4] \end{matrix}$	$\begin{matrix} \text{Ø} .741 \\ [Ø18.8] \end{matrix}$ $\begin{matrix} .118 \\ [3.0] \end{matrix}$
TYPE 1	TYPE 2 / TYPE 6	TYPE 3	TYPE 4
			TYPE 5 / TYPE 8

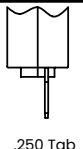
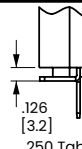
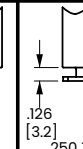
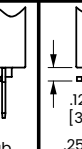
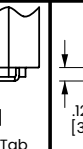
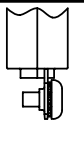
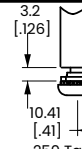

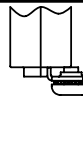
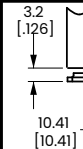
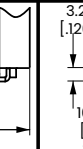
Type 5 is clear hex boot. Type 8 is black hex boot (available for bushings G, J & K only); Type 3 nut includes molded in "PRESS TO RESET" marking.

7. INDICATOR PLATE

Embossed (ALUMINUM)	Silver Printing On Black
	
$\begin{matrix} .887 \\ [22.5] \end{matrix}$ $\begin{matrix} .016 \\ [.4] \end{matrix}$	$\begin{matrix} .887 \\ [22.5] \end{matrix}$ $\begin{matrix} .016 \\ [.4] \end{matrix}$

All indicator plates are marked "Suppl. Prot. press to reset".

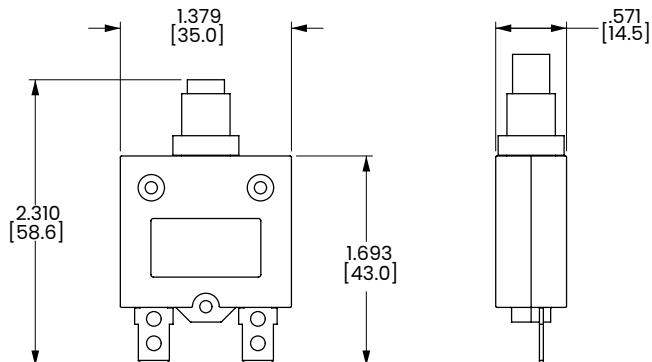
9. TERMINAL

										
.250 Tab	$\begin{matrix} .126 \\ [3.2] \end{matrix}$.250 Tab	$\begin{matrix} .126 \\ [3.2] \end{matrix}$.250 Tab	$\begin{matrix} .126 \\ [3.2] \end{matrix}$.250 Tab	$\begin{matrix} .126 \\ [3.2] \end{matrix}$.250 Tab		$\begin{matrix} 3.2 \\ [.126] \end{matrix}$ $\begin{matrix} 10.41 \\ [.41] \end{matrix}$.250 Tab	$\begin{matrix} 3.2 \\ [.126] \end{matrix}$ $\begin{matrix} 10.41 \\ [.41] \end{matrix}$.250 Tab		$\begin{matrix} 3.2 \\ [.126] \end{matrix}$ $\begin{matrix} 10.41 \\ [10.41] \end{matrix}$.250 Tab	$\begin{matrix} 3.2 \\ [.126] \end{matrix}$ $\begin{matrix} 10.41 \\ [.41] \end{matrix}$.250 Tab
TYPE A : Straight	TYPE B : Line Pin	TYPE C : Load Pin	TYPE D : 90° Bend	TYPE E : 90° Bend Backward	TYPE F : Screw Terminal	TYPE G : Mixed Terminals 90° Bend Line	TYPE H : Screw Terminal 90° Bend	TYPE J : Screw Terminal 90° Bend	TYPE R : Screw Terminal without	TYPE K : Mixed Terminals 90° Bend Load

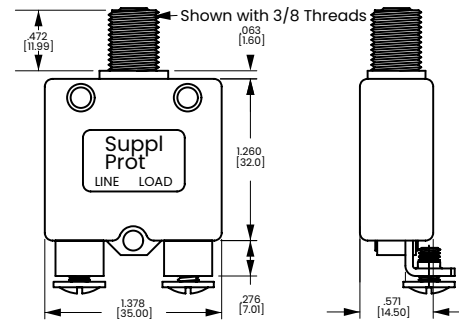
Dimensional Specs

inches [millimeters]

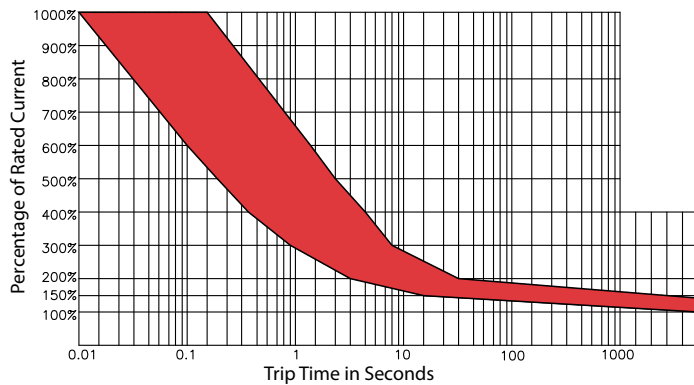
3-40A Construction



50 & 60A Construction



Time Delay



Overload	Trip Time
100%	No Trip
135%	Trip in 1 hr
200%	4.0 ~ 40 sec.
300%	0.9 ~ 8.0 sec.
400%	0.42 ~ 5.0 sec.
500%	0.25 ~ 3.0 sec.
600%	0.01 ~ 1.8 sec.

Trip Time Factor ¹	
-10 °C	x 1.70
-5 °C	x 1.60
0 °C	x 1.50
5 °C	x 1.40
10 °C	x 1.30
15 °C	x 1.20
20 °C	x 1.10
25 °C	x 1.00
30 °C	x 0.90
35 °C	x 0.85
40 °C	x 0.80
45 °C	x 0.75
50 °C	x 0.70
55 °C	x 0.65
60 °C	x 0.60

Notes:
1. Trip Time factor is a guideline that indicates ambient temperature effect on trip times at various overload values.

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To view all of Carling's environmental, quality, health & safety certifications please visit www.carlingtech.com/environmental-certifications.