

CLB-Series

THERMAL CIRCUIT BREAKERS

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.



Resources:

[Configure a Complete Part](#)

[**Download CAD & Sales Drawing >**](#)

Product Highlights:

- Ratings from 3-60A, 125, 250VAC, 32VDC
- 2500 VAC/1 minute
- 60°C Max Operating Temperature
- 2500A @ 32VDC Interrupting Capacity
- 100M ohms Insulation Resistance
- Voltage drop <0.25 V
- UL, cUL, CSA, TUV, CE
- UL1500/ISO8846 for ignition protection/marine

Applications:

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



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CLB - 10 3 - 12 C 3 B - B - A / 10

1
Series

2
Rating

3
Voltage

4
Mounting
Hole

5
Bushing
Type

6
Mounting
Nut

7
Indicator
Plate

8
Button

9
Terminal

10
Button
Marking

1 SERIES CLB

3 VOLTAGE

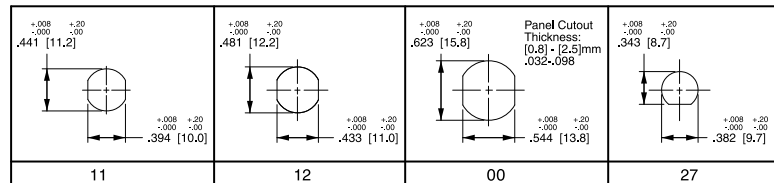
3 125-250VAC/ 32 VDC

2 RATING

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

4 MOUNTING HOLE

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



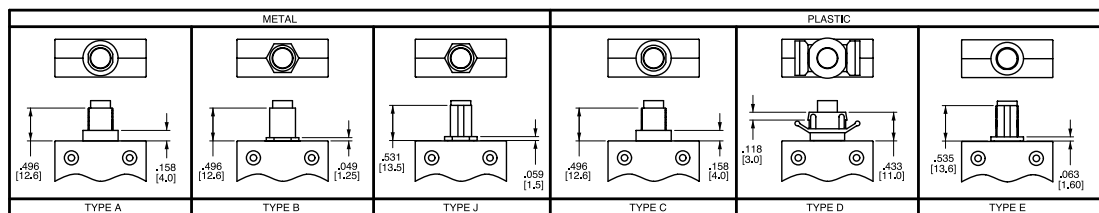
5 BUSHING

METAL

A 6 Type A
B 16 Type B
J 8 Type J

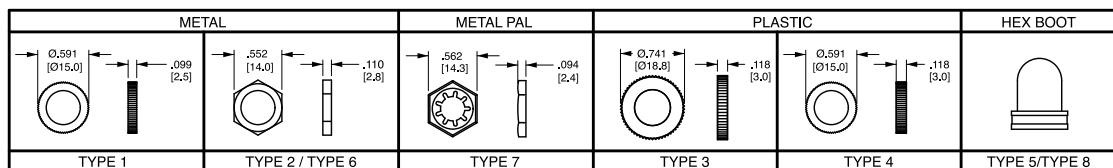
PLASTIC

C 5 Type C
D 7 Type D
E 8 Type E



6 MOUNTING NUT 9

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

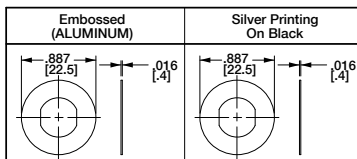


NOTE: Type 5 is clear hex boot. Type 8 is black hex boot (available for bushings E & J only); Type 3 nut includes molded in "PRESS TO RESET" marking.

7 INDICATOR PLATE 9

N None
A Embossed
B Silver Printing
on Black

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



Notes: All dimensions are in [mm]. Tolerance $\pm .005$ [.127] unless otherwise specified.

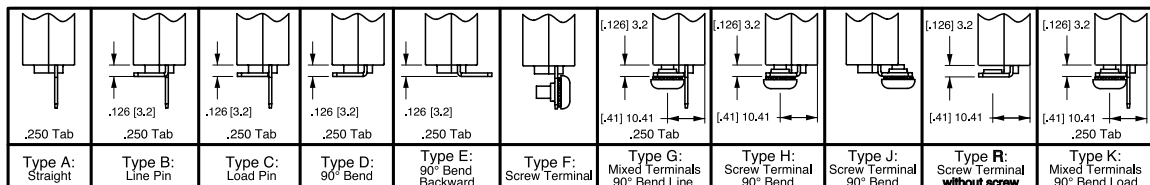
- Used with bushing A or B only.
- Used with bushing A or C only.
- Used with bushing D only.
- Used with bushing E & J only.
- Used with M12 mounting hole only.
- Used with M11 and M12 mounting hole only.
- Used with mounting hole 00 only.
- Used with 27 mounting hole only.
- All hardware available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

8 BUTTON

B Black R Red W White

9 TERMINAL 10,11,15

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



10 BUTTON MARKING (IF BLANK, NO MARKING)¹³ Button Marking Orientation:

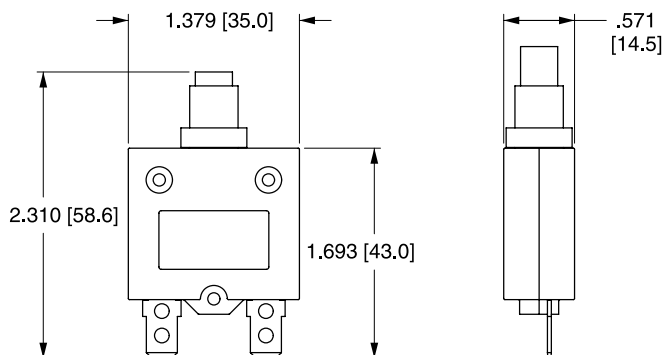
line load

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

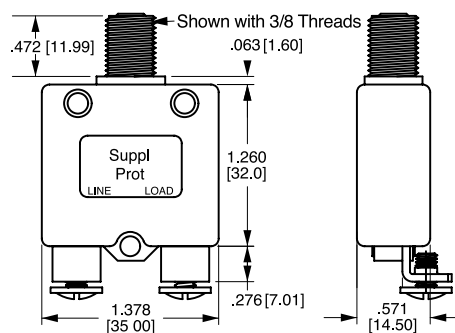
*Manufacturer reserves the right to change product specification without prior notice.

Dimensional Specifications: in. [mm]

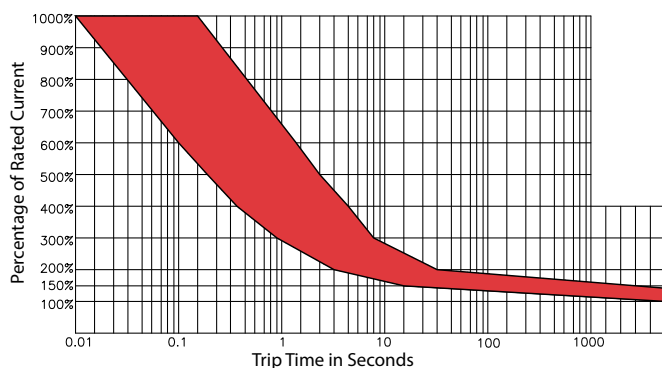
3-40A Construction



50 & 60A Construction



Time Delay



Overload	Trip Time
100%	No Trip
150%	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.

Time Trip 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

Time Trip Factor ¹	
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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