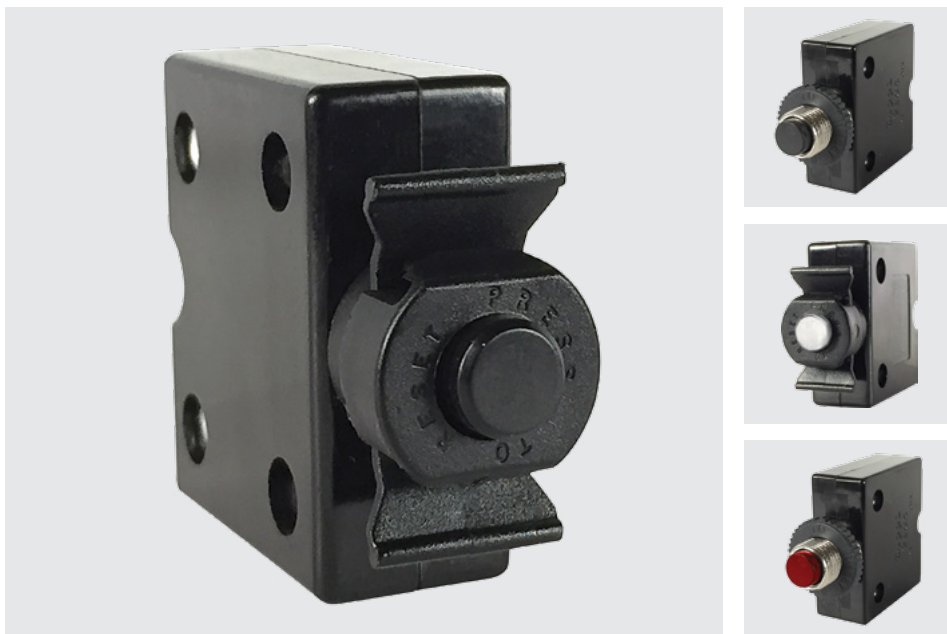


CLB-Series

THERMAL CIRCUIT PROTECTORS

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.



Product Highlights:

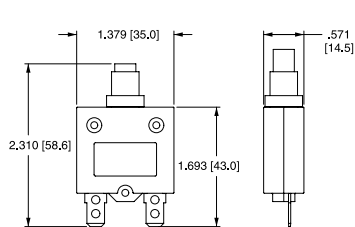
- ♦ Ratings from 3-60A, 125, 250VAC, 32VDC
- ♦ 2500 VAC/1 minute
- ♦ 60°C Max Operating Temperature
- ♦ 2500A @ 32VDC Interrupting Capacity
- ♦ 100M ohms Insulation Resistance
- ♦ Voltage drop <0.25 V
- ♦ UL, cUL, CSA, TUV, CE
- ♦ UL1500/ISO8846 for ignition protection/marine

Applications:

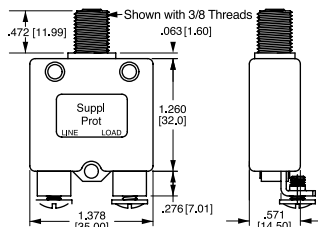
- ♦ Household Appliances
- ♦ Transportation
- ♦ Marine
- ♦ Power Strips
- ♦ Medical Equipment
- ♦ Audio Visual Equipment
- ♦ Power Supplies
- ♦ ROHS Complaint

Dimensional Specifications: in. [mm]

3-40A Construction



50 & 60A Construction



Carling Technologies®
Innovative Designs. Powerful Solutions.

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

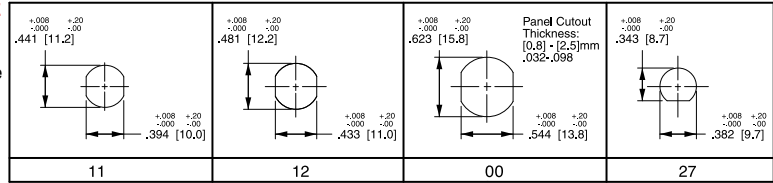
3 125-250VAC/ 32 VDC

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 ¹²	50 amps
13	13 amps	60 ¹²	60 amps

4 MOUNTING HOLE

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



5 BUSHING

METAL

A 6 Type A

B 16 Type B

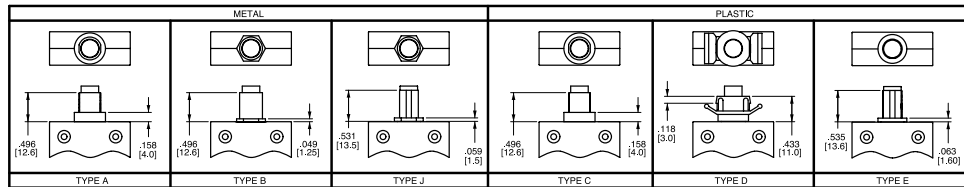
J 8 Type J

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

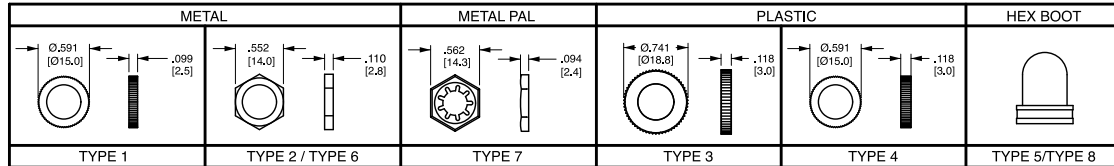
4 Type 4

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

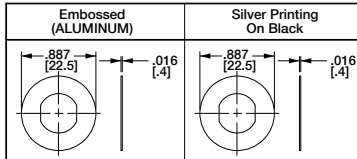
N None

A Embossed

B Silver Printing

on Black

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



Notes: All dimensions are in.[mm]. Tolerance ± 0.005 [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 [8.0] thickness is 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)

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.

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

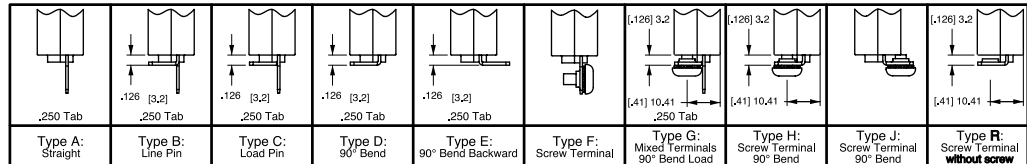
F Type F

G Type G

H Type H

J Type J

R Type R



10 BUTTON MARKING (IF BLANK, NO MARKING)¹³

Button Marking Orientation:

line (20) load

03 3 amp
04 4 amp
05 5 amp

06 6 amp
07 7 amp
08 8 amp

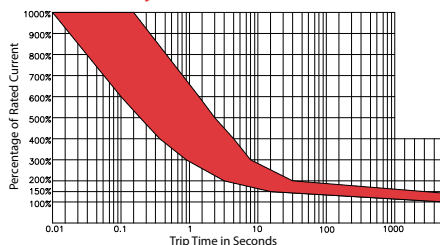
10 10 amp
12 12 amp
13 13 amp

15 15 amp
18 18 amp
20 20 amp

25 25 amp
30 30 amp
35 35 amp

40 40 amp
50 50 amp
60 60 amp

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.

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

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Founded in 1920, Carling Technologies is a leading manufacturer of electrical and electronic switches and assemblies, circuit breakers, electronic controls, power distribution units, and multiplexed power distribution systems. With four ISO registered manufacturing facilities and technical sales offices worldwide, Carling Technologies Sales, Service and Engineering teams do much more than manufacture electrical components, they engineer powerful solutions! To learn more about Carling please visit www.carlingtech.com/company-profile.

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

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