

CLB-Series

THERMAL CIRCUIT PROTECTORS

Rating:

3 to 60A, 125-250VAC, 32VDC

Approvals:

UL, CUL, CSA, TUV, CE
UL1500/ISO8846 for ignition
protection/marine

Dielectric Strength:

2500 VAC/1 minute

Interrupting capacity:

2500 amps @ 32 VDC

Insulation Resistance:

100M ohms

Operating Temperature:

-10°C to 60°C

Voltage drop:

< 0.25 V

Applications:

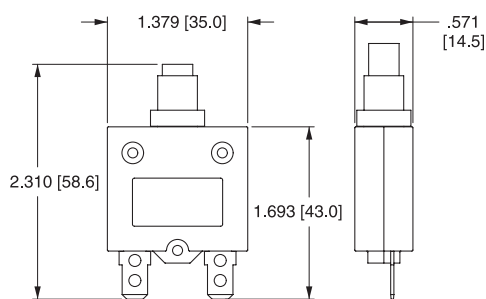
Household Appliances
Transportation
Marine
Power Strips
Medical Equipment
Audio Visual Equipment
Power Supplies

ROHS Compliant

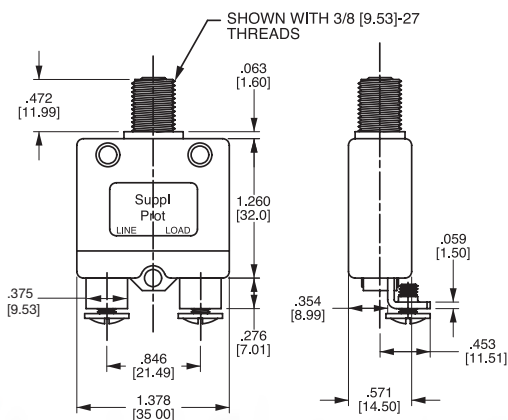
A COMPACT, SINGLE POLE, PUSH-TO-RESET
FAMILY OF THERMAL CIRCUIT BREAKERS

Dimensional Specifications:

3-40A Construction



50 & 60A Construction



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CLB — 10 3 — 12 C 3 N — 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

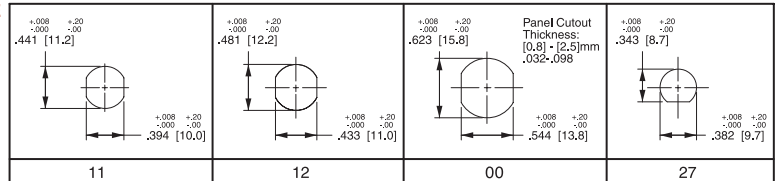
3 125-250VAC/ 32 VDC

2 RATING

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

4 MOUNTING HOLE

11¹ M11
12² M12
00³ Snap In Style
27⁴ 3/8" 27 UNS



5 BUSHING

METAL

A⁵ Type A

B⁶ Type B

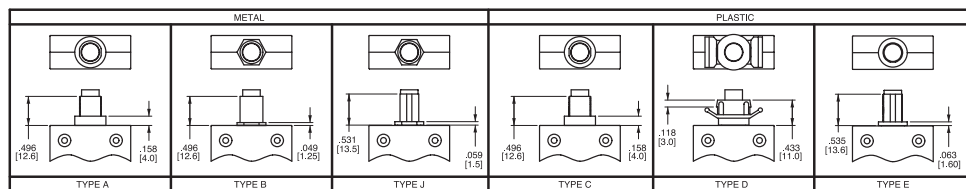
J⁸ Type J

PLASTIC

C⁵ Type C

D⁷ Type D

E⁸ Type E



6 MOUNTING NUT⁹

N None

1 Type 1

2 Type 2

3 Type 3

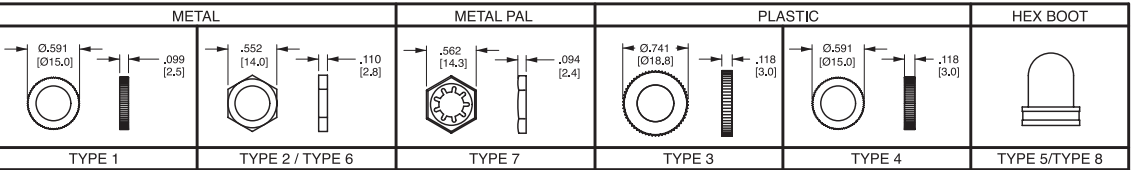
4 Type 4

5 Type 5

6^{4,14} Type 6

7⁴ Type 7

8⁴ 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 PLATE⁹

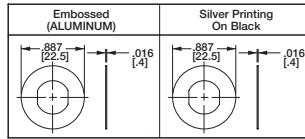
N None

A Embossed

B Silver Printing

on Black

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



Notes: All dimensions are in [mm]. Tolerance ± 0.05 [.127] unless otherwise specified.

- Used with bushing A or B only.
- Used with bushing C only.
- Used with bushing D only.
- Used with bushing E & J only.
- Used with M12 mounting hole only.
- Used with M12 mounting hole only.
- Used with mounting hole 00 only.
- Used with 27 mounting hole only.
- All hardware available separately. Consult factory.
- > 35 amp ratings must use solder joint to connect wire to non-screw type terminals.
- Terminals are .040 [1.0] thickness for ratings > 35 & .315 [8] thickness is for ratings < 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

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

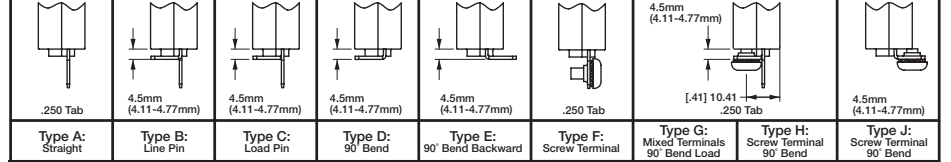
E Type E

F Type F

G Type G

H Type H

J Type J

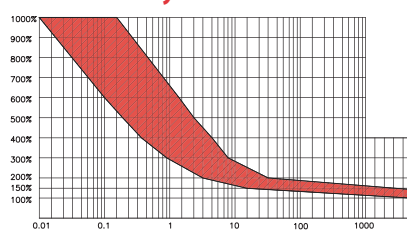


10 BUTTON MARKING (IF BLANK, NO MARKING.)¹³ Button Marking Orientation:

line (20) 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

Time Delay



DERATING FACTOR	
-10°C	X1.70
-5°C	X1.60
0°C	X1.50
5°C	X1.40
10°C	X1.30
15°C	X1.20
20°C	X1.10
25°C	X1.00

DERATING FACTOR	
30°C	X0.90
35°C	X0.85
40°C	X0.80
45°C	X0.75
50°C	X0.70
55°C	X0.65
60°C	X0.60

OVERLOAD	
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 %	0.1~1.8 sec

Notes:

Breaker must hold 100% of rated current and must trip at 150% and above, within the time limits shown in curve. Trip times specified at 25° ambient with no preloading.

1 To adjust the breaker rating for ambient temperature multiply the breaker rating by the factor. (ex: 5 amp rating at 0°C: 5 x .67 = 3.3 amp. Select 3 amp rating.)

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

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