

CMB-Series

THERMAL CIRCUIT PROTECTORS

Rating:

3 to 20A, 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:

Carling Technologies®

Innovative Designs. Powerful Solutions.

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CMB — **10** **3** — **11** **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 CMB

3 VOLTAGE

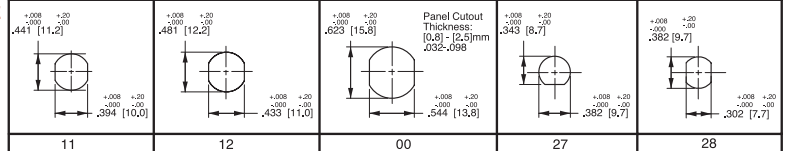
3 125-250VAC/ 32 VDC

2 RATING

10	10 amp
03	3 amp
04	4 amp
05	5 amp
06	6 amp
07	7 amp
08	8 amp
12	12 amp
13	13 amp
14	14 amp
15	15 amp
16	16 amp
20	20 amp

4 MOUNTING HOLE

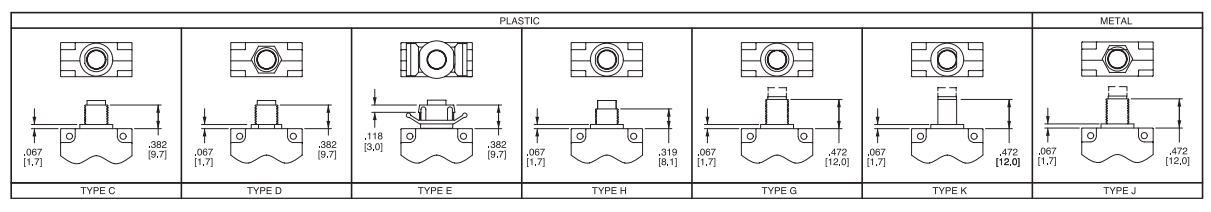
11¹ M11
12² M12
00³ Snap In Style
27⁹ 3/8" 27 UNS
28¹² 3/8" 27 UNS
(double flatted)



5 BUSHING

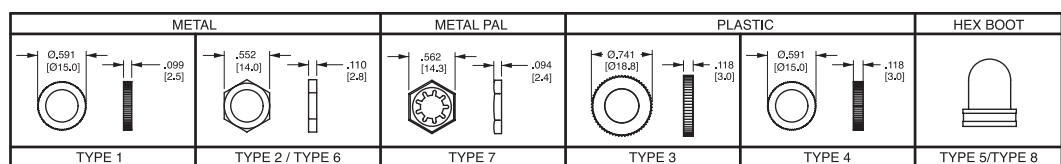
PLASTIC

C⁴ Type C
D⁴ Type D
E⁵ Type E
G⁸ Type G
H⁶ Type H
K¹³ Type K
METAL
J⁸ Type J



6 MOUNTING NUT⁷

N None
1 Type 1
2 Type 2
3¹¹ Type 3
4 Type 4
5 Type 5
6¹⁴ Type 6
7⁹ Type 7
8⁹ Type 8

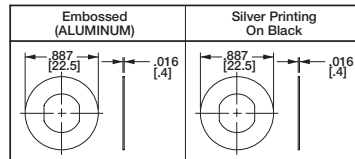


NOTE: Type 5 is clear hex boot. Type 8 is black hex boot (available for bushings G, J & K only); Type 3 nut includes molded in "PRESS TO RESET" marking.

7 INDICATOR PLATE⁷

N None
A Embossed Legend
B Silver Printing
on Black

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



Notes: All dimensions are in [mm]. Tolerance ± 0.05 [1.27] unless otherwise specified.

- Used with bushing C or D only.
- Used with H bushing only.
- Used with bushing E only.
- Used with M11 mounting hole only.
- Used with mounting hole 00 only.
- Used with M12 mounting hole only.
- All hardware available separately. Consult factory.
- Available with mounting hole 27 only.
- Available with G, J or K bushing only.
- Amp rating must match button marking (ex: 20 will be marked on the button of CMB-203-27G3N-W-A/20)
- Includes molded in "PRESS TO RESET" marking.
- Available with K bushing only.
- Available with mounting hole 28 only.
- Thickness is 3.0 mm, .118 in.

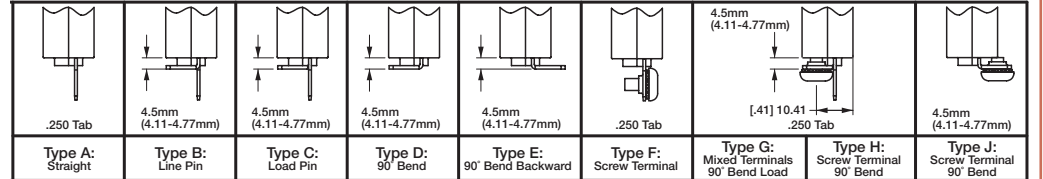
8 BUTTON

B Black **R** Red **W** White

9 TERMINAL

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

F,G,H,J TERMINALS ARE 8-32 UNC

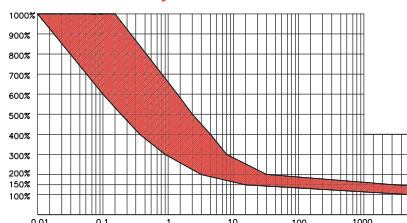


10 BUTTON MARKING (IF BLANK, NO MARKING.)¹⁰ Button Marking Orientation:

line load

03	3 amp	05	5 amp	07	7 amp	10	10 amp	13	13 amp	15	15 amp	20	20 amp
04	4 amp	06	6 amp	08	8 amp	12	12 amp	14	14 amp	16	16 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	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 %	0.1~1.8 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.

- 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.)