

CMB-Series

THERMAL CIRCUIT BREAKERS

The CMB-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 3-20A, 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



Resources:

[Configure a Complete Part](#)

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

Applications:

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



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

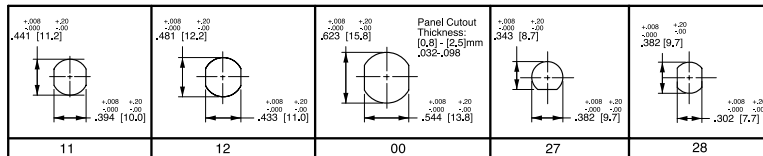
3 125-250VAC/ 32 VDC

2 RATING

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

4 MOUNTING HOLE

11 ¹ M11
12 ² M12
00 ³ Snap In Style
27 ¹⁵ 3/8" 27 UNS
28 ¹² 3/8" 27 UNS
(double flatted)



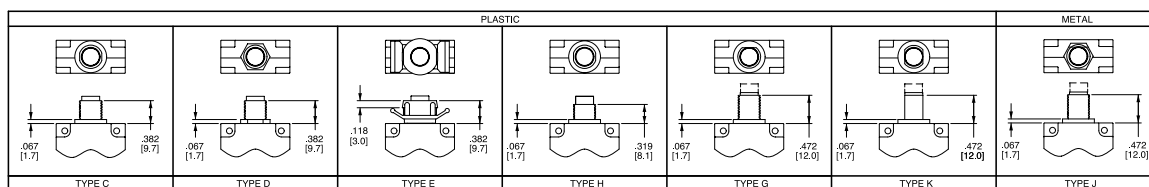
5 BUSHING

PLASTIC

C ⁴ Type C
D ⁴ Type D
E ⁵ Type E
G ⁸ Type G
H ⁶ Type H
K ¹³ Type K

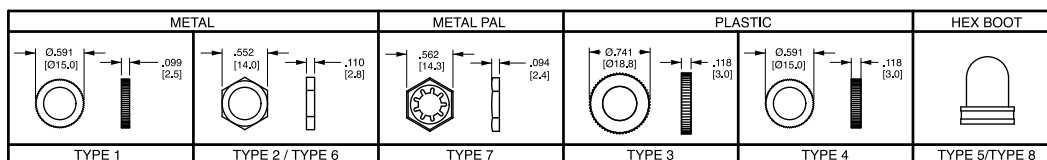
METAL

J ⁸ Type J



6 MOUNTING NUT ⁷

N None
1 Type 1
2 Type 2
3 ¹¹ Type 3
4 Type 4
5 Type 5
6 ¹⁴ Type 6
7 Type 7
8 ⁹ Type 8

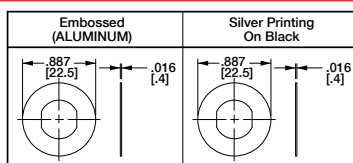


NOTE: Type 5 is clear hex boot. Type 8 is black hex boot (available for bushings G, J & K only); Type 3 nut includes molded in "PRESS TO RESET" marking.

7 INDICATOR PLATE ⁷

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 ± 0.005 [0.127] unless otherwise specified.

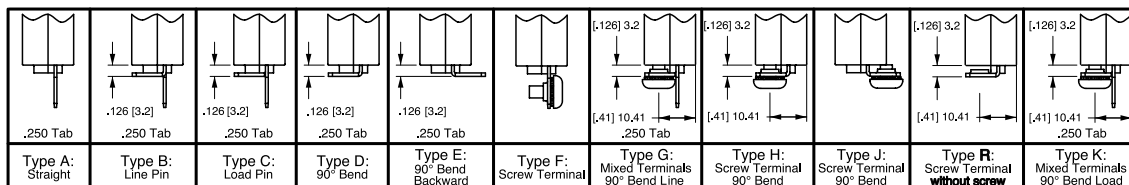
- Used with bushing C or D only.
- Used with H bushing only.
- Used with bushing E only.
- Used with M11 mounting hole only.
- Used with mounting hole 00 only.
- Used with M12 mounting hole only.
- All hardware available separately. Consult factory.
- Available with mounting hole 27 only.
- Available 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.
- Available with G or J bushing only.

8 BUTTON

B Black R Red W White

9 TERMINAL

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



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

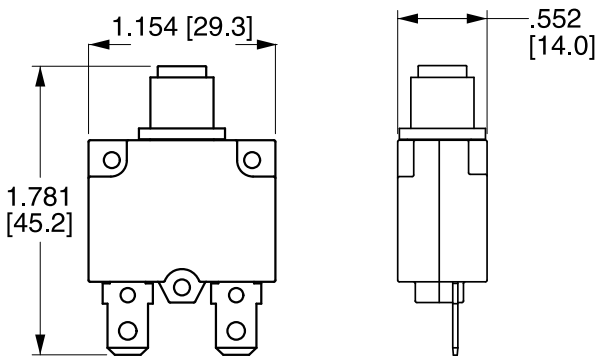
10 BUTTON MARKING (IF BLANK, NO MARKING)¹⁰

Button Marking Orientation: line load

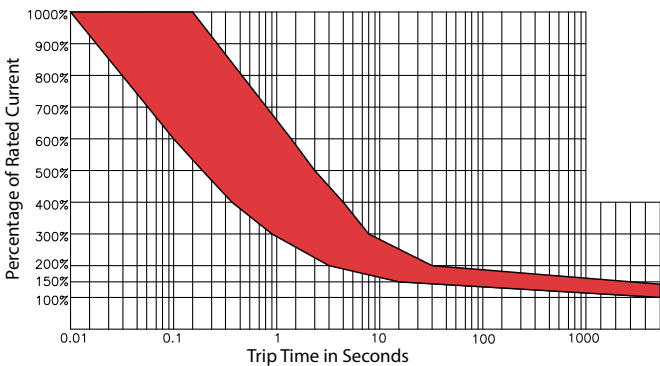
03 3 amp 05 5 amp 07 7 amp 10 10 amp 13 13 amp 15 15 amp 20 20 amp
04 4 amp 06 6 amp 08 8 amp 12 12 amp 14 14 amp 16 16 amp

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

Dimensional Specifications: in. [mm]



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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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 ISO9001 and IATF16949 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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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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