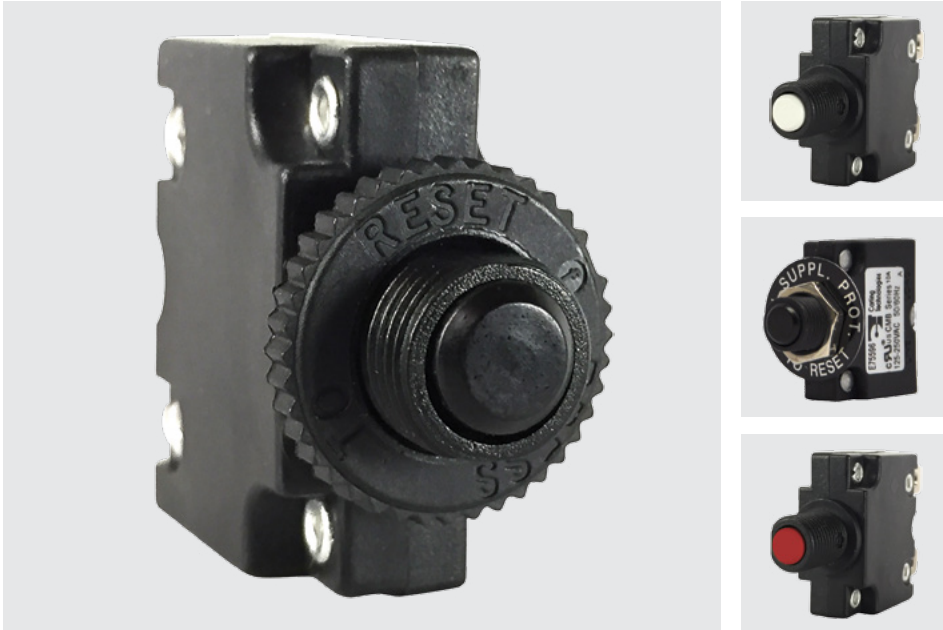


CMB-Series

THERMAL CIRCUIT PROTECTORS

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.



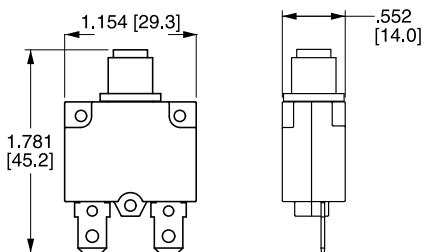
Product Highlights:

- 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

Applications:

- Household Appliances
- Transportation
- Marine
- Power Strips
- Medical Equipment
- Audio Visual Equipment
- Power Supplies
- **ROHS Compliant**

Dimensional Specifications: in. [mm]



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

4 MOUNTING HOLE

11 ¹ M11		00 ³ Snap In Style	
12 ² M12		27 ⁹ 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 ⁶ Type G	H ⁸ Type H	K ¹³ Type K	J ⁸ Type J
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METAL

J⁸ 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 ⁹ Type 7	8 ⁹ Type 8
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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".

Embossed (ALUMINUM)	Silver Printing On Black

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

1 Used with bushing C or D only.	9 Available with G, J or K bushing only.
2 Used with H bushing only.	10 Amp rating must match button marking (ex: 20 will be marked on the button of CMB-203-27G3N-W-A/20)
3 Used with bushing E only.	11 Includes molded in "PRESS TO RESET" marking.
4 Used with M11 mounting hole only.	12 Available with K bushing only.
5 Used with mounting hole 00 only.	13 Available with mounting hole 28 only.
6 Used with M12 mounting hole only.	14 Thickness is 3.0 mm, .118 in.
7 All hardware available separately. Consult factory.	
8 Available with mounting hole 27 only.	

8 BUTTON

B Black R Red W White

9 TERMINAL

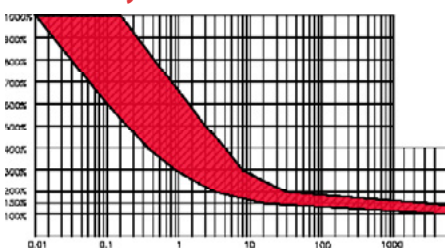
A Type A	F Type F
B Type B	G Type G
C Type C	H Type H
D Type D	J Type J
E Type E	

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

10 BUTTON MARKING (IF BLANK, NO MARKING.)¹⁰ Button Marking Orientation: line (20) 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	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

Derating Factor	
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

Overload	Trip Time
100%	No Trip
150%	Trip in 1 hr
200%	4.0 ~ 40 sec.
300%	0.9 ~ 8.0 sec.
400%	.42 ~ 5.0 sec.
500%	.25 ~ 3.0 sec.
600%	.01 ~ 1.8 sec.

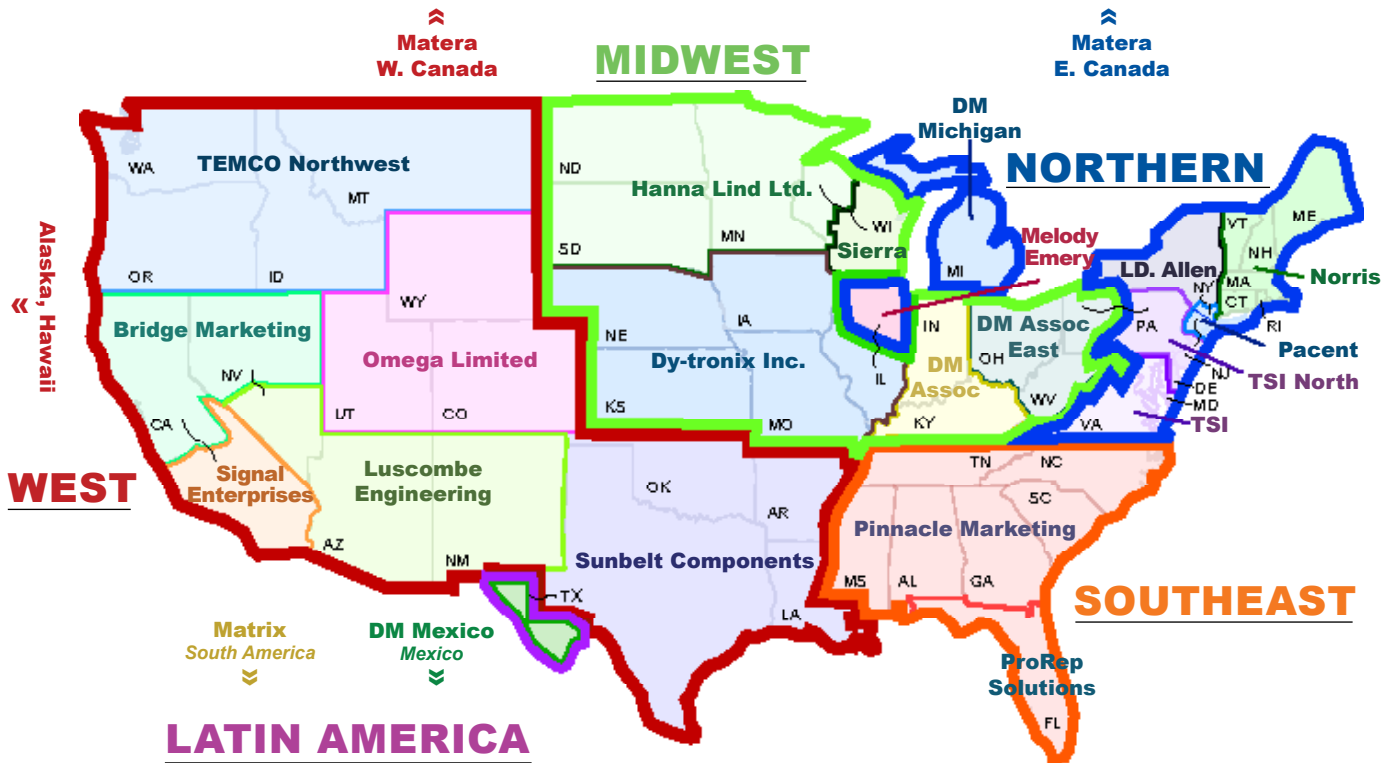
Notes:
Breaker must hold 100% of rated current and must trip at 150% and above, within the time limits shown in curve. Trip times specified at 25° ambient with no preloading.

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.

Authorized Sales Representatives

Click on the group name on the map below to find your local representative or visit www.carlingtech.com/findarep.



About Carling

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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