

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.



Resources:

[Configure a Complete Part](#)

[Download CAD & Sales Drawing >](#)

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
- On/Off-Highway
- Marine
- Power Strips
- Medical Equipment
- Audio Visual Equipment
- Power Supplies
- ROHS Compliant

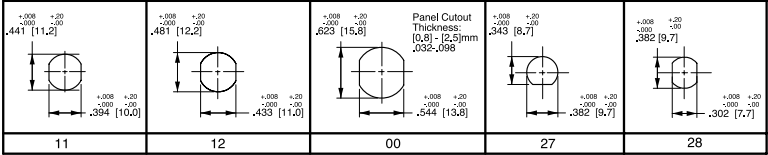


CMB - 10 3 - 11 C 3 N - B - A /10

- | | | | | | | | | | |
|--------|--------|---------|---------------|--------------|--------------|-----------------|--------|----------|----------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Series | Rating | Voltage | Mounting Hole | Bushing Type | Mounting Nut | Indicator Plate | Button | Terminal | Button Marking |

1 SERIES CMB	3 VOLTAGE 3 125-250VAC/ 32 VDC
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2 RATING <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">03 3 amps</td> <td style="width: 50%;">12 12 amps</td> </tr> <tr> <td>04 4 amps</td> <td>13 13 amps</td> </tr> <tr> <td>05 5 amps</td> <td>14 14 amps</td> </tr> <tr> <td>06 6 amps</td> <td>15 15 amps</td> </tr> <tr> <td>07 7 amps</td> <td>16 16 amps</td> </tr> <tr> <td>08 8 amps</td> <td>20 20 amps</td> </tr> </table>	03 3 amps	12 12 amps	04 4 amps	13 13 amps	05 5 amps	14 14 amps	06 6 amps	15 15 amps	07 7 amps	16 16 amps	08 8 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)
03 3 amps	12 12 amps												
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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	<table style="width: 100%; text-align: center;"> <tr> <th colspan="7">PLASTIC</th> <th>METAL</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TYPE C</td> <td>TYPE D</td> <td>TYPE E</td> <td>TYPE H</td> <td>TYPE G</td> <td>TYPE K</td> <td>TYPE J</td> </tr> </table>	PLASTIC							METAL								TYPE C	TYPE D	TYPE E	TYPE H	TYPE G	TYPE K	TYPE J
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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	<table style="width: 100%; text-align: center;"> <tr> <th>METAL</th> <th>METAL PAL</th> <th colspan="2">PLASTIC</th> <th>HEX BOOT</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TYPE 1</td> <td>TYPE 2 / TYPE 6</td> <td>TYPE 3</td> <td>TYPE 4</td> <td>TYPE 5 / TYPE 8</td> </tr> </table>	METAL	METAL PAL	PLASTIC		HEX BOOT						TYPE 1	TYPE 2 / TYPE 6	TYPE 3	TYPE 4	TYPE 5 / 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".	<table style="width: 100%; text-align: center;"> <tr> <th>Embossed (ALUMINUM)</th> <th>Silver Printing On Black</th> </tr> <tr> <td></td> <td></td> </tr> </table>	Embossed (ALUMINUM)	Silver Printing On Black		
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Notes: All dimensions are in [mm]. Tolerance ±.005 [.127] unless otherwise specified.

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

8 BUTTON B Black R Red W White

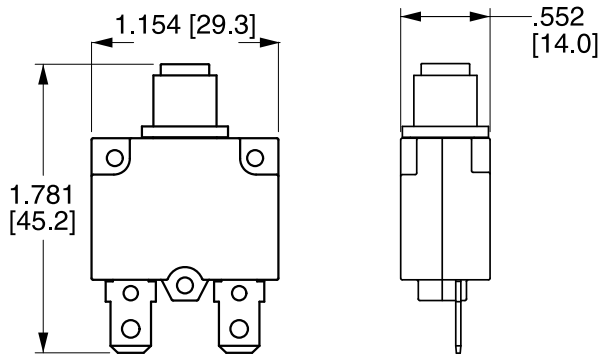
9 TERMINAL A Type A B Type B C Type C D Type D E Type E F Type F G Type G H Type H J Type J K Type K R Type R	<table style="width: 100%; text-align: center;"> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Type A: Straight</td> <td>Type B: Line Pin</td> <td>Type C: Load Pin</td> <td>Type D: 90° Bend</td> <td>Type E: 90° Bend Backward</td> <td>Type F: Screw Terminal</td> <td>Type G: Mixed Terminals 90° Bend Line</td> <td>Type H: Screw Terminal 90° Bend</td> <td>Type J: Screw Terminal 90° Bend</td> <td>Type R: Screw Terminal without screw</td> <td>Type K: Mixed Terminals 90° Bend Load</td> </tr> </table>												Type A: Straight	Type B: Line Pin	Type C: Load Pin	Type D: 90° Bend	Type E: 90° Bend Backward	Type F: Screw Terminal	Type G: Mixed Terminals 90° Bend Line	Type H: Screw Terminal 90° Bend	Type J: Screw Terminal 90° Bend	Type R: Screw Terminal without screw	Type K: Mixed Terminals 90° Bend Load
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F,G,H,J TERMINALS ARE 8-32 UNC

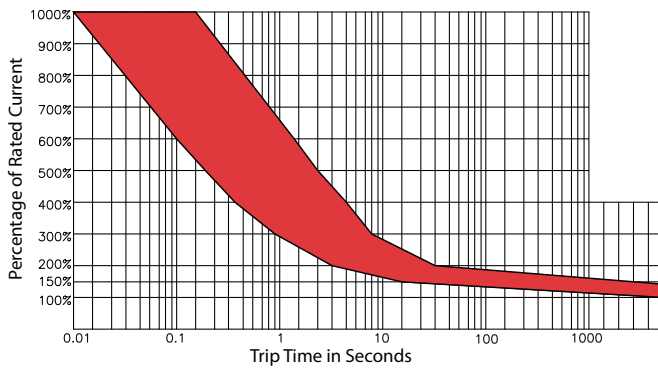
10 BUTTON MARKING (IF BLANK, NO MARKING)¹⁰	Button Marking Orientation: line 20 load													
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*Manufacturer reserves the right to change product specification without prior notice.

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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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 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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Carling Technologies®

Innovative Designs. Powerful Solutions.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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