

# 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:**

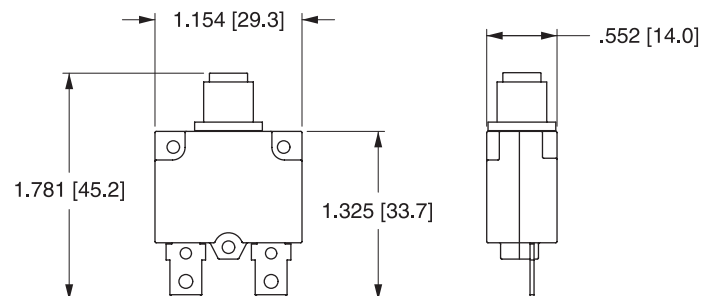
< 0.25 V

**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®**

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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**

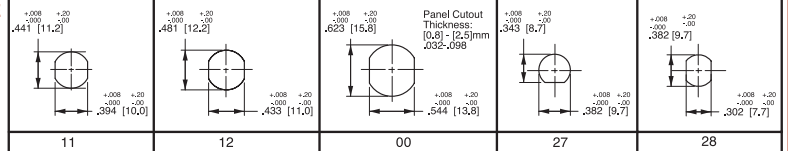
**3 VOLTAGE**  
**3** 125-250VAC/ 32 VDC

**2 RATING**

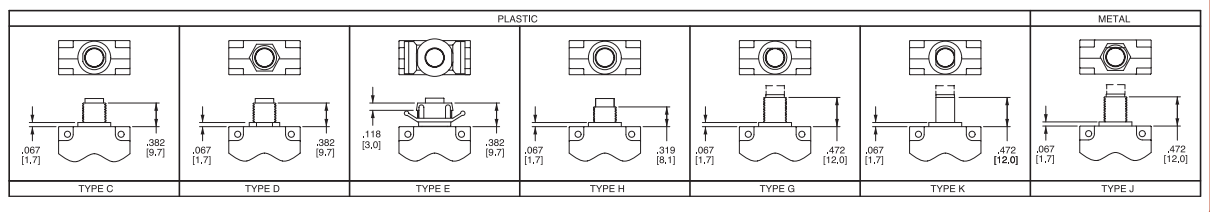
<b>10</b>	10 amp
<b>03</b>	3 amp
<b>04</b>	4 amp
<b>05</b>	5 amp
<b>06</b>	6 amp
<b>07</b>	7 amp
<b>08</b>	8 amp
<b>12</b>	12 amp
<b>13</b>	13 amp
<b>14</b>	14 amp
<b>15</b>	15 amp
<b>16</b>	16 amp
<b>20</b>	20 amp

**4 MOUNTING HOLE**

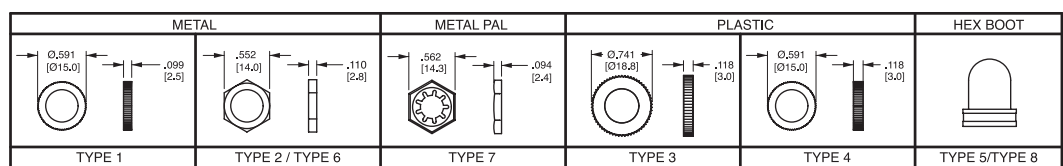
**11<sup>1</sup>** M11  
**12<sup>2</sup>** M12  
**00<sup>3</sup>** Snap In Style  
**27<sup>9</sup>** 3/8" 27 UNS  
**28<sup>12</sup>** 3/8" 27 UNS  
 (double flatted)



**5 BUSHING**  
**PLASTIC**  
**C<sup>4</sup>** Type C  
**D<sup>4</sup>** Type D  
**E<sup>5</sup>** Type E  
**G<sup>8</sup>** Type G  
**H<sup>6</sup>** Type H  
**K<sup>13</sup>** Type K  
**METAL**  
**J<sup>8</sup>** Type J

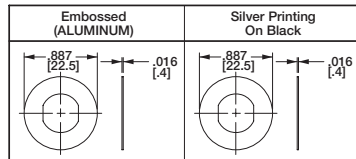


**6 MOUNTING NUT<sup>7</sup>**  
**N** None  
**1** Type 1  
**2** Type 2  
**3<sup>11</sup>** Type 3  
**4** Type 4  
**5** Type 5  
**6<sup>14</sup>** Type 6  
**7<sup>9</sup>** Type 7  
**8<sup>9</sup>** Type 8



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<sup>7</sup>**  
**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  $\pm 0.005$  [0.127] unless otherwise specified.

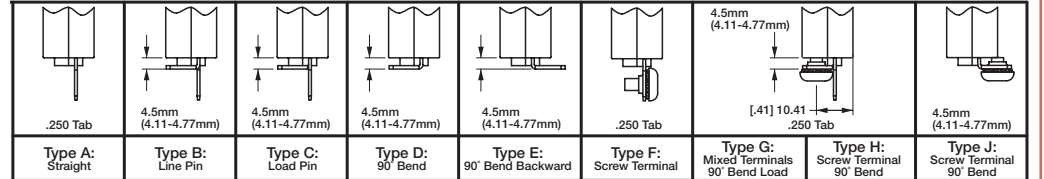
- Used with bushing C or D only.
- Used with H bushing only.
- Used with bushing E only.
- Used with M11 mounting hole only.
- Used with mounting hole 00 only.
- Used with M12 mounting hole only.
- All hardware available separately. Consult factory.
- Available with mounting hole 27 only.
- Available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

**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



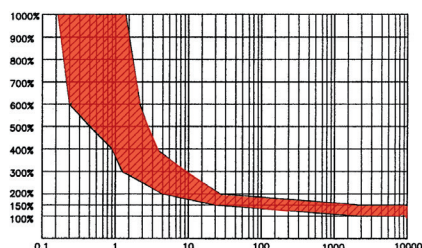
F,G,H,J TERMINALS ARE 8-32 UNC

**10 BUTTON MARKING (IF BLANK, NO MARKING.)<sup>10</sup>** Button Marking Orientation:

line **(20)** load

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

**Time Delay**



**CORRECTION FACTOR<sup>1</sup>**

0°C	x .67
10°C	x .72
15°C	x .83
18°C	x .87
25°C	x 1.00
32°C	x 1.05
40°C	x 1.18
50°C	x 1.33
60°C	x 1.67

**OVERLOAD TRIP TIME**

100%	NO TRIP
150%	TRIP IN 1 HR.
200%	5 - 35 SEC.
300%	1 - 10 SEC.
400%	.45 - 5.5 SEC.
600%	.1 - 20 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.) 2500 amps @ 32 VDC only. AIC rating is 1000 amps for AC applications.

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

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