

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:

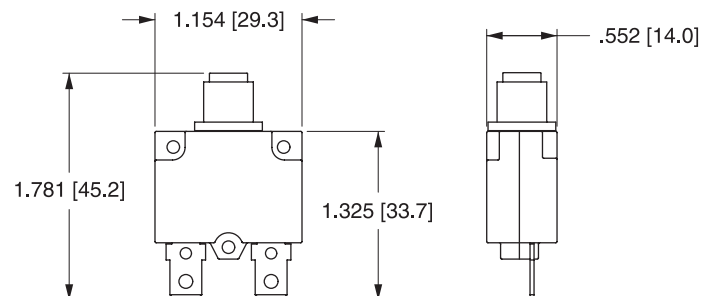
< 0.25 V

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**

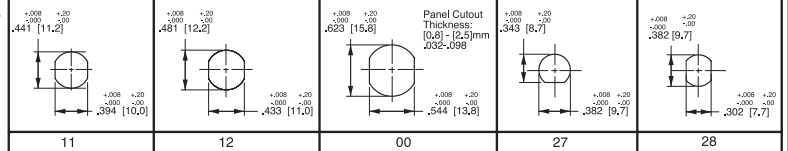
1 Series 2 Rating 3 Voltage 4 Mounting Hole 5 Bushing Type 6 Mounting Nut 7 Indicator Plate 8 Button 9 Terminal 10 Button Marking

1 SERIES CMB

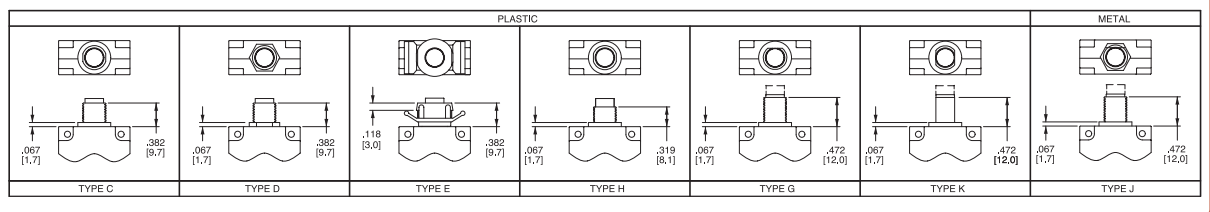
3 VOLTAGE 3 125-250VAC/ 32 VDC

2 RATING		10	10 amp
03	3 amp	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

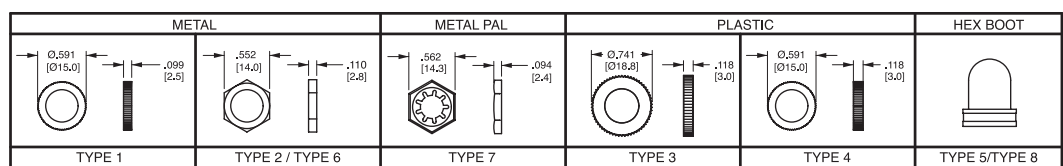
4 MOUNTING HOLE	11¹	M11
	12²	M12
	00³	Snap In Style
	27⁹	3/8" 27 UNS
	28¹²	3/8" 27 UNS (double flatted)



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

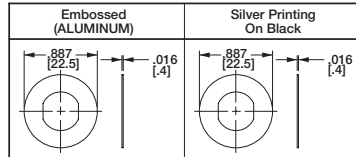


6 MOUNTING NUT⁷ N None 1 Type 1 2 Type 2 3¹¹ Type 3 4 Type 4 5 Type 5 6¹⁴ Type 6 7⁹ Type 7 8⁹ Type 8



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".

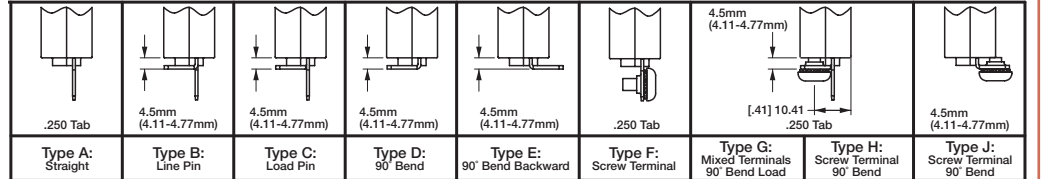
Notes: All dimensions are in [mm]. Tolerance $\pm .005$ [0.127] unless otherwise specified.

- 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

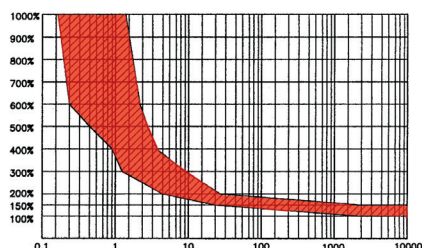
F, G, H, J TERMINALS ARE 8-32 UNC



10 BUTTON MARKING (IF BLANK, NO MARKING.)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



CORRECTION FACTOR ¹	
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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