

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:

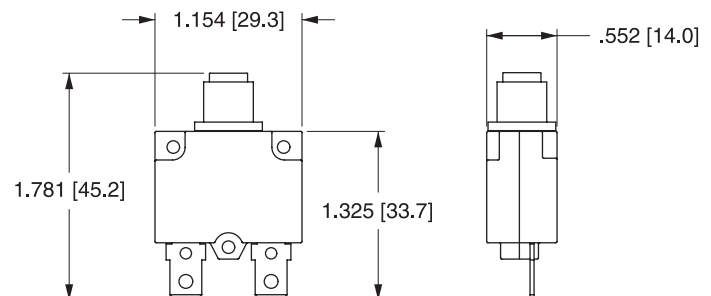
< 0.25 V

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

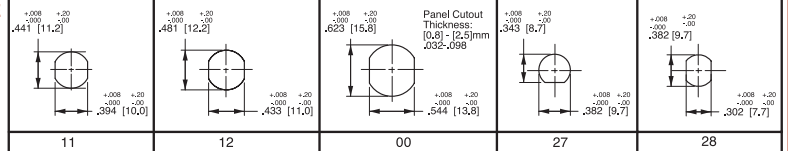
3 VOLTAGE
3 125-250VAC/ 32 VDC

2 RATING

10	10 amp
03	3 amp
04	4 amp
05	5 amp
06	6 amp
07	7 amp
08	8 amp

4 MOUNTING HOLE

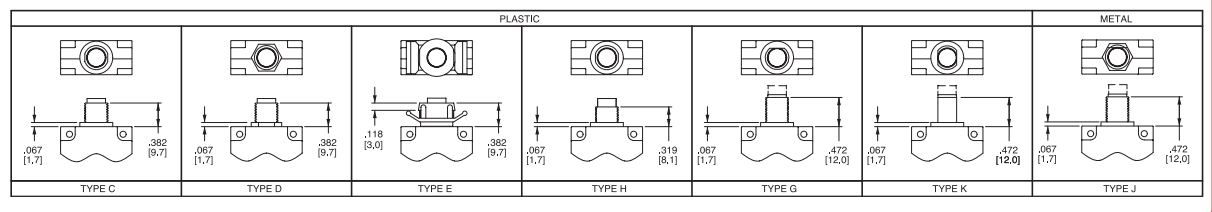
11¹	M11
12²	M12
00³	Snap In Style
27⁹	3/8" 27 UNS
28¹²	3/8" 27 UNS (double flatted)



5 BUSHING

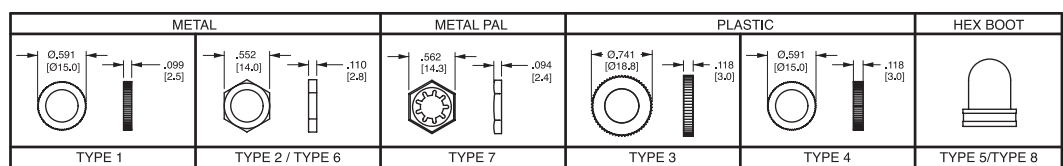
PLASTIC

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

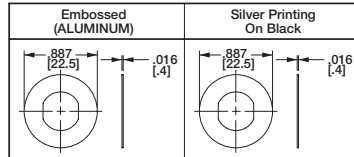


NOTE: Type 5 is clear hex boot. Type 8 is black hex boot (available for bushings G, J & K only); Type 3 nut includes molded in "PRESS TO RESET" marking.

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 ± 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. | |

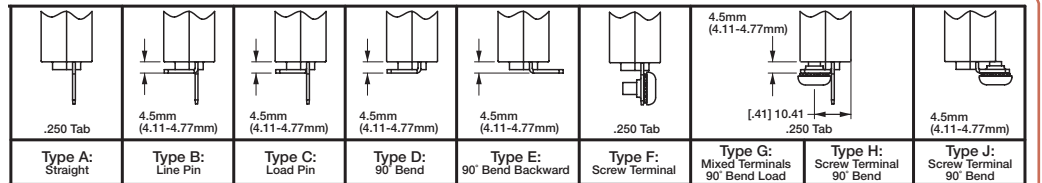
8 BUTTON

B	Black	R	Red	W	White
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9 TERMINAL

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

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

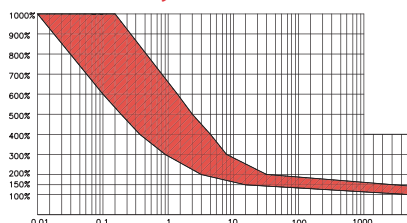


10 BUTTON MARKING (IF BLANK, NO MARKING.)¹⁰ Button Marking Orientation:

line  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	X1.70
-5°C	X1.60
0°C	X1.50
5°C	X1.40
10°C	X1.30
15°C	X1.20
20°C	X1.10
25°C	X1.00

DERATING FACTOR

30°C	X0.90
35°C	X0.85
40°C	X0.80
45°C	X0.75
50°C	X0.70
55°C	X0.65
60°C	X0.60

OVERLOAD

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 %	0.1~1.8 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.)