CMB-Series

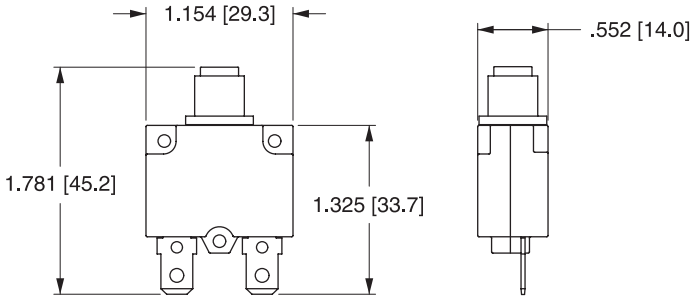
THERMAL CIRCUIT PROTECTORS

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
CMB	10	3	11	C	3	N	B	A	/10

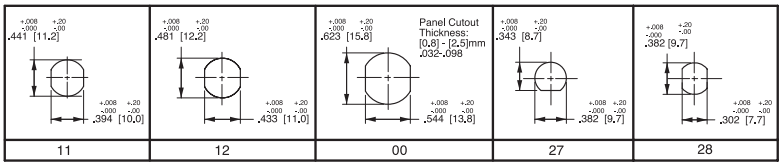
1 SERIES
CMB

2 RATING

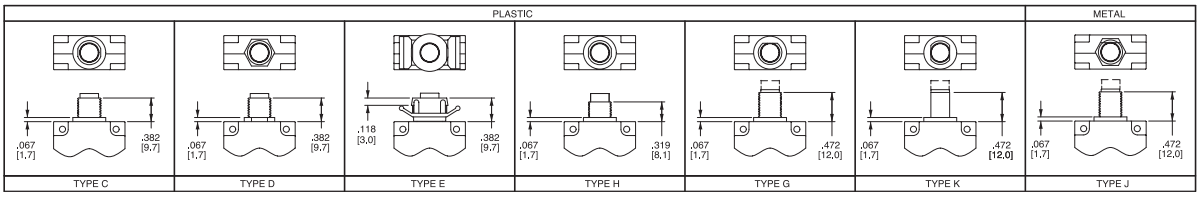
03	3 amp	**10**	10 amp
04	4 amp	**12**	12 amp
05	5 amp	**13**	13 amp
06	6 amp	**14**	14 amp
07	7 amp	**15**	15 amp
08	8 amp	**16**	16 amp
		20	20 amp

3 VOLTAGE
3 125-250VAC/ 32 VDC

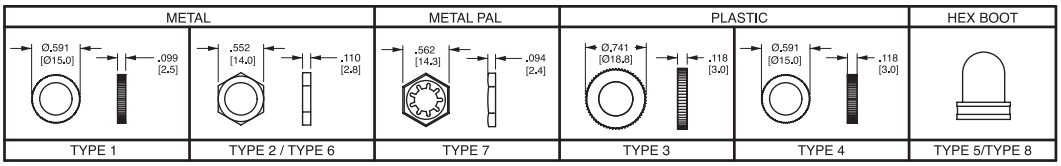
4 MOUNTING HOLE
11[1] M11
12[2] M12
00[3] Snap In Style
27[9] 3/8" 27 UNS
28[12] 3/8" 27 UNS (double flatted)



5 BUSHING
PLASTIC
C[4] Type C
D[4] Type D
E[5] Type E
G[8] Type G
H[6] Type H
K[13] Type K
METAL
J[8] Type J



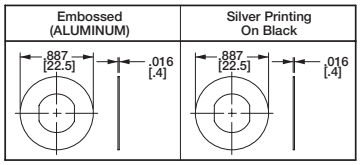
6 MOUNTING NUT[7]
N None
1 Type 1
2 Type 2
3[11] Type 3
4 Type 4
5 Type 5
6[14] Type 6
7[9] Type 7
8[9] Type 8



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".

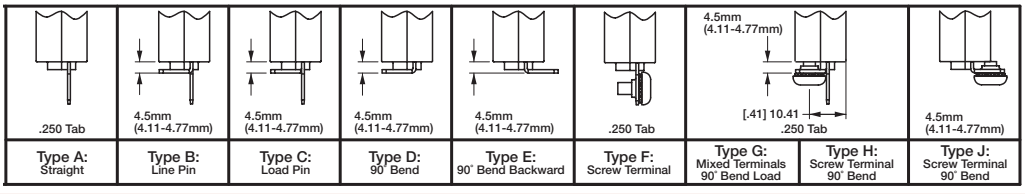


8 BUTTON
B Black **R** Red **W** White

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.

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

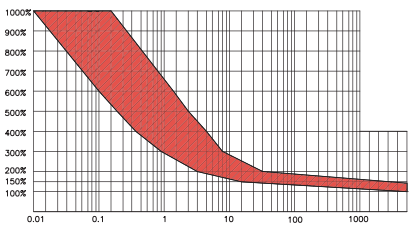
F,G,H,J TERMINALS ARE 8-32 UNC



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



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	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 %	0.1~1.8 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.)

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

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