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 Complaint

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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

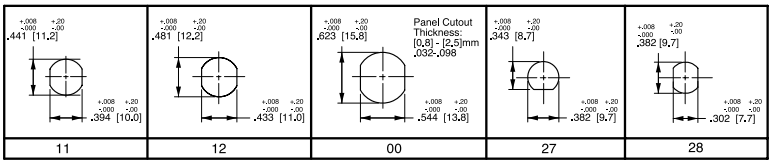
3 VOLTAGE
3 125-250VAC/ 32 VDC

2 RATING

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



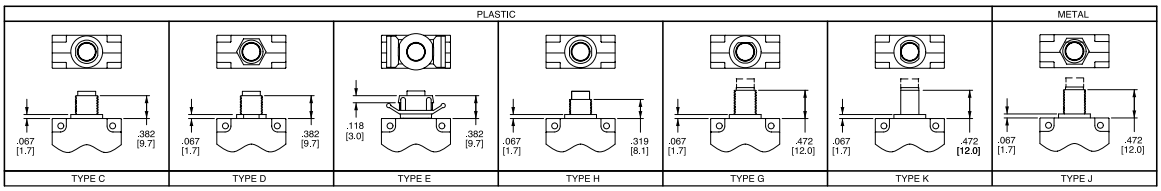
5 BUSHING

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

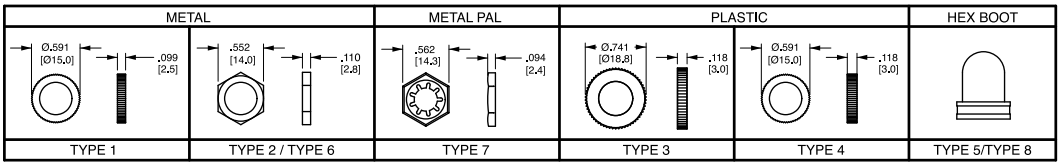
METAL

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

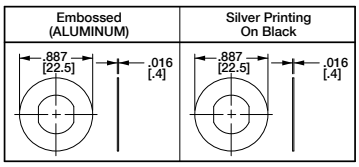


NOTE: Type 5 is clear hex boot. Type 8 is black hex boot (available for bushings G, J & K only); Type 3 nut includes molded in "PRESS TO RESET" marking.

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

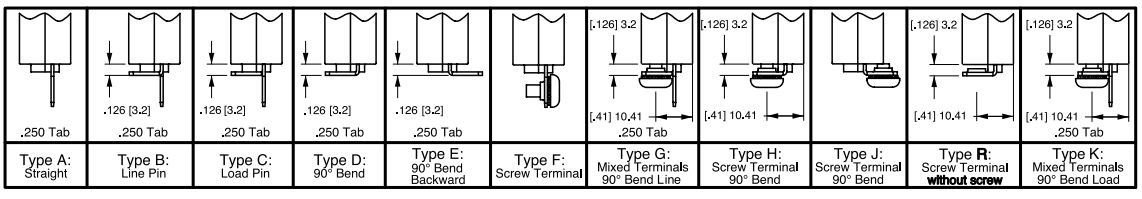
B	Black	**R**	Red	**W**	White

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.
15 Available with G or J bushing only.

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



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		

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

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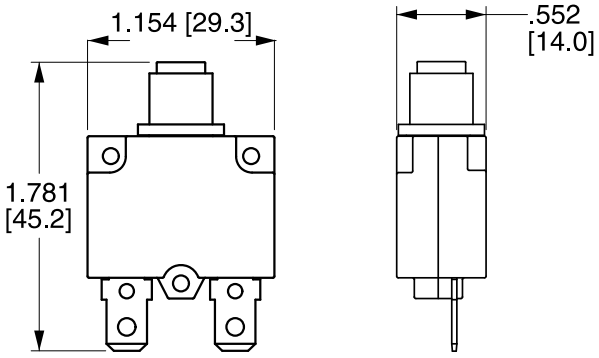
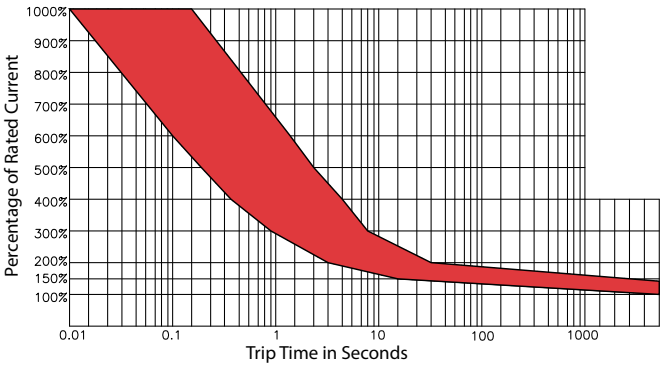
Dimensional Specifications: in. [mm]



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.

Authorized Sales Representatives and Distributors

Click on a region of the map below to find your local representatives and distributors or visit ***www.carlingtech.com/findarep***.

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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