CTB-Series
THERMAL CIRCUIT PROTECTORS

The CTB-Series is a compact, single pole, rocker actuated 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. Electrical ratings range from 3 to 16 amps at 125VAC, 250VAC, 125/250VAC or 50VDC. This breaker resets with the push of a finger and features a snap in mounting style, utilizing a 16mm dia. round Double D mounting hole.

Product Highlights:
• Ratings from 3-16A, 125VAC, 250VAC, 125/250VAC, 50VDC
• .250 Tabs
• 60°C Max Operating Temperature
• 1000 AIC Interrupting Capacity
• 100M ohms Insulation Resistance
• UL, cUL, VDE, CE

Applications:
• Household Appliances
• On/Off Highway
• Marine
• Power Strips and Supplies
• Medical Equipment
• Audio Visual Equipment
• Exercise Equipment
• ROHS Complaint

Resources:
Configure a Complete Part
Download CAD & Sales Drawing

Carling Technologies, Inc.
60 Johnson Avenue, Plainville, CT 06062
Email: sales@carlingtech.com
Application Support: team2@carlingtech.com
Phone: 860.793.9281  Fax: 860.793.9231
www.carlingtech.com
CTB - B - B - 05 - B

<table>
<thead>
<tr>
<th>1 SERIES</th>
<th>2 BEZEL COLOR</th>
<th>3 ROCKER COLOR</th>
<th>4 RATING</th>
<th>5 PANEL THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTB</td>
<td>B</td>
<td>B</td>
<td>03 3 amp</td>
<td>08 8 amp</td>
</tr>
<tr>
<td>2 BEZEL COLOR</td>
<td>Black</td>
<td>B</td>
<td>04 4 amp</td>
<td>09 9 amp</td>
</tr>
<tr>
<td>3 ROCKER COLOR</td>
<td>Black</td>
<td>05 5 amp</td>
<td>10 10 amp</td>
<td>15 15 amp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>06 6 amp</td>
<td>10 10 amp</td>
<td>16 16 amp</td>
</tr>
<tr>
<td></td>
<td></td>
<td>07 7 amp</td>
<td>13 13 amp</td>
<td></td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Additional colors available. Consult factory.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RECOMMENDED PANEL THICKNESS:

- Blank fits standard thickness of .032 – .062
- B fits .070 – .110 panel thickness

Dimensional Specifications: in. [mm]

- 1.535 [38.99] MAX
- .540 [13.71] MAX
- .325 [8.26] MAX
- .190 [4.83] MAX
- .625 [15.875] MAX
- .250 X .032 [6.35 X .813] QUICK CONNECT TERMINAL
- .005 [.12] 1.12
- .630 [16.00]
- .370 [9.4]
- .545 [13.84]
- .760 [19.31] MAX
- AMP RATING
- .760 [19.31] MAX

Notes:

- All dimensions are in inches [millimeters]. Tolerance ±.005 [.127] unless otherwise specified. 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.

Time Delay

- Overload
- Trip Time
- Correction Factor

<table>
<thead>
<tr>
<th>Percentage of Rated Current</th>
<th>Trip Time in Seconds</th>
<th>Overload</th>
<th>Trip Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>No Trip</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>135%</td>
<td>Trip in 1 hr</td>
<td>2.2 ~ 15 sec</td>
<td></td>
</tr>
<tr>
<td>200%</td>
<td>0.9 ~ 3.4 sec</td>
<td>0.57 ~ 1.6 sec</td>
<td></td>
</tr>
<tr>
<td>300%</td>
<td>0.38 ~ 0.94 sec</td>
<td>0.27 ~ 0.76 sec</td>
<td></td>
</tr>
<tr>
<td>400%</td>
<td>0.27 ~ 0.76 sec</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500%</td>
<td>0.27 ~ 0.76 sec</td>
<td></td>
<td></td>
</tr>
<tr>
<td>600%</td>
<td>0.27 ~ 0.76 sec</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Correction Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°C</td>
<td>x 0.85</td>
</tr>
<tr>
<td>10°C</td>
<td>x 0.90</td>
</tr>
<tr>
<td>15°C</td>
<td>x 0.955</td>
</tr>
<tr>
<td>18°C</td>
<td>x 0.992</td>
</tr>
<tr>
<td>25°C</td>
<td>x 1.00</td>
</tr>
<tr>
<td>32°C</td>
<td>x 1.06</td>
</tr>
<tr>
<td>40°C</td>
<td>x 1.15</td>
</tr>
<tr>
<td>50°C</td>
<td>x 1.39</td>
</tr>
<tr>
<td>60°C</td>
<td>x 1.49</td>
</tr>
</tbody>
</table>

Notes:

1. To adjust the breaker rating for ambient temperature, multiply the breaker rating by the factor: ex: 5A rating x .850 = 4.25A. Select 4A rating.

*Manufacturer reserves the right to change product specification without prior notice.
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 ISO 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
Worldwide Headquarters
Carling Technologies, Inc.
60 Johnson Avenue, Plainville, CT 06062
Phone: 860.793.9281  Fax: 860.793.9231
Email: sales@carlingtech.com

Northern Region Sales Office: nrsm@carlingtech.com
Southeast Region Sales Office: sersm@carlingtech.com
Midwest Region Sales Office: mrsm@carlingtech.com
West Region Sales Office: wrsm@carlingtech.com
Latin America Sales Office: lar@carlingtech.com

Asia-Pacific Headquarters
Carling Technologies, Asia-Pacific Ltd.,
Suite 1607, 16/F Tower 2, The Gateway,
Harbour City, 25 Canton Road,
Tsimshatsui, Kowloon, Hong Kong
Phone: Int + 852-2737-2277  Fax: Int + 852-2736-9332
Email: sales@carlingtech.com.hk

Shenzhen, China: shenzhen@carlingtech.com
Shanghai, China: shanghai@carlingtech.com
Pune, India: india@carlingtech.com
Kaohsiung, Taiwan: taiwan@carlingtech.com
Yokohama, Japan: japan@carlingtech.com

Europe | Middle East | Africa Headquarters
Carling Technologies LTD
4 Airport Business Park, Exeter Airport,
Clyst Honiton, Exeter, Devon, EX5 2UL, UK
Phone: Int + 44 1392.364422  Fax: Int + 44 1392.364477
Email: ltd.sales@carlingtech.com

Germany: gmbh@carlingtech.com
France: sas@carlingtech.com