Since its founding, Carling Technologies has continually forged a tradition of leadership in quality and product innovation.

There are few products that Carling Technologies hasn’t turned “ON” and fewer industries that haven’t turned to Carling for solutions. With ISO and TS registered manufacturing facilities and technical sales offices worldwide, Carling ranks among the world’s largest manufacturers of circuit breakers, switches, power distribution units, digital switching systems and electronic controls.
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Thermal Circuit Protectors

This catalog features Carling Technologies’ current line of thermal circuit protectors, from 3 to 60 amps, which offer reliable, cost effective circuit protection. Thermal circuit protectors utilize a bimetallic strip electrically in series with the circuit. The heat generated by the current during an overload deforms the bimetallic strip and trips the breaker. Thermal protectors have a significant advantage over fuses in that they can be reset after tripping. They can also be used as the main ON/OFF switch for the equipment being protected.

Typical Applications Include:

- Household Appliances
- Transportation
- Marine
- Power Strips
- Medical Equipment
- Audio Visual Equipment
- Power Supplies
- Exercise Equipment

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## SELECTOR GUIDE

<table>
<thead>
<tr>
<th></th>
<th>C1005B-Series</th>
<th>CLB-Series</th>
<th>CMB-Series</th>
<th>CTB-Series</th>
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<tr>
<td><strong>Poles</strong></td>
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<td>1</td>
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<td>1</td>
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<tr>
<td><strong>Actuator Style</strong></td>
<td>rocker, lighted rocker</td>
<td>pushbutton</td>
<td>pushbutton</td>
<td>rocker</td>
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<tr>
<td><strong>Max Current &amp; Voltage Ratings</strong></td>
<td>7 to 16A, 125-250VAC, 32VDC</td>
<td>3 to 60A, 125-250VAC, 32 VDC</td>
<td>3 to 20A, 125-250VAC, 32 VDC</td>
<td>3 to 16A, 125-250VAC, 50VDC</td>
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<tr>
<td><strong>Max Interrupting Capacity</strong></td>
<td>1000A</td>
<td>2500A@32VDC</td>
<td>2500A@32VDC</td>
<td>1000A</td>
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<td><strong>Available Circuits</strong></td>
<td>series trip manual reset</td>
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<td>series trip manual reset</td>
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<tr>
<td><strong>Termination</strong></td>
<td>.250” tab, solder lug</td>
<td>.250” tab, .250” tab with 90° bend, screw terminal, screw terminal with 90° bend</td>
<td>.250” tab, .250” tab with 90° bend, screw terminal, screw terminal with 90° bend</td>
<td>.250” tab</td>
</tr>
<tr>
<td><strong>Mounting Method</strong></td>
<td>front panel snap-in</td>
<td>threaded bushing, front panel snap-in</td>
<td>threaded bushing, front panel snap-in</td>
<td>front panel snap-in</td>
</tr>
<tr>
<td><strong>Operating Temperate</strong></td>
<td>-10°C to 65°C</td>
<td>-10°C to 60°C</td>
<td>-10°C to 60°C</td>
<td>-10°C to 60°C</td>
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<tr>
<td><strong>Agency Approvals</strong></td>
<td>UL, cUL, CSA, TUV, CE, UL 1500 / ISO 8846 for ignition protection / marine</td>
<td>UL, cUL, CSA, TUV, CE, UL 1500 / ISO 8846 for ignition protection / marine</td>
<td>UL, cUL, VDE, CE</td>
<td>UL, cUL, VDE, CE</td>
</tr>
</tbody>
</table>

*Options and approvals shown may apply to specific construction combinations only, consult factory for clarification. Manufacturer reserves the right to change product specifications without prior notice.
C1005B-Series
THERMAL CIRCUIT PROTECTORS

The C1005B-Series offers the functionality of a switch and circuit breaker in a single compact package, which fits an industry standard .550 x 1.125 mounting hole. This combo device eliminates the need for both a switch and thermal circuit protector on customer panels. By using only this multipurpose product, wiring and assembly costs are greatly reduced, while at the same time, valuable panel real estate is saved.

The C1005B-Series is available lighted or unlighted, in a variety of colors, with solder lug or .250 tabs. Current ratings range from 7-16 amps at 125 and 250 VAC and up to 32 VDC.

Product Highlights
• .550 x 1.125 mounting hole (14mm x 28.6mm)
• Ratings from 7-16A
• Standard Reset/Off Legend
• .250 Tabs or Solder Lug Terminations
• 65°C Max Operating Temperature
• 1000 AIC Interrupting Capacity
• 1500 VAC Dielectric Strength
• 100M ohms @500VDC Insulation Resistance
• UL1077, UL1363, IEC 60934

Typical Applications:
• Household and Commercial Appliances
• On/Off-Highway
• Marine
• Telecom
• Power Strips and Supplies
• Audio-Visual Equipment
• Medical
• Generators

Resources:
Configure a Complete Part
Download CAD & Sales Drawing

back to table of contents
C1005B - 3 B 15 1 B R 3

1 SERIES
C1005B

2 ILLUMINATION
1 Non-Lighted
2 Lighted

3 TERMINATION
A Solder Lug
B .250 Tab

4 CURRENT RATING (AMPERES)
07 7 amps
08 8 amps
09 9 amps
10 10 amps
11 11 amps
12 12 amps
13 13 amps
14 14 amps
15 15 amps
16 16 amps

5 CONTACT MATERIAL
1 Silver Cad Oxide (switch), Silver plated copper (breaker)

6 BEZEL LEGEND IMPRINT
B Black Bezel with white legend
W White Bezel with black legend
C Gray Bezel with black legend

7 ROCKER COLOR
R Red
G Green
U Blue
T Clear

Note: RESET OFF Legend is standard.

8 LAMP VOLTAGE
3 Neon Lamp 125/250 VAC
9 Non-lighted

Notes:
1. Silver cad oxide switch and breaker contacts are available as a special order. Specify 3 for selection 5

Dimensional Specifications: in. [mm]

Time Delay

*Manufacturer reserves the right to change product specification without prior notice.
CLB-Series
THERMAL CIRCUIT PROTECTORS

The CLB-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.

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

Product Highlights:
• Ratings from 3-60A, 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

Resources:
Configure a Complete Part
Download CAD & Sales Drawing
# CLB-Series - Ordering Scheme

## 1 SERIES

<table>
<thead>
<tr>
<th>Series</th>
<th>CLB</th>
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## 2 RATING

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<th>3 amps</th>
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<th>7 amps</th>
<th>8 amps</th>
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<tr>
<td>03</td>
<td>15 amps</td>
<td>18 amps</td>
<td>20 amps</td>
<td>25 amps</td>
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<td>35 amps</td>
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<td>60 amps</td>
</tr>
<tr>
<td>04</td>
<td>16 amps</td>
<td>19 amps</td>
<td>21 amps</td>
<td>26 amps</td>
<td>31 amps</td>
<td>36 amps</td>
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<td>05</td>
<td>17 amps</td>
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<td>22 amps</td>
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<td>62 amps</td>
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<td>06</td>
<td>18 amps</td>
<td>21 amps</td>
<td>23 amps</td>
<td>28 amps</td>
<td>33 amps</td>
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<td>43 amps</td>
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<td>45 amps</td>
<td>55 amps</td>
<td>65 amps</td>
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## 3 VOLTAGE

- 125-250VAC/ 32 VDC

## 4 MOUNTING HOLE

<table>
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<tr>
<th>Hole Type</th>
<th>M11</th>
<th>M12</th>
<th>Snap In Style</th>
<th>3/8&quot; 27 UNS</th>
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<tbody>
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## 5 BUSHING

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<th>Type D</th>
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<th>Type G</th>
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<tr>
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<td>TYPE B</td>
<td>TYPE J</td>
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<td>TYPE B</td>
<td>TYPE J</td>
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<td>PLASTIC</td>
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## 7 INDICATOR PLATE

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<th>Silver Printing on Black</th>
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## 8 BUTTON

<table>
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<tr>
<th>Button Color</th>
<th>Black</th>
<th>Red</th>
<th>White</th>
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<td>B</td>
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## 9 TERMINAL

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Type A</th>
<th>Type B</th>
<th>Type C</th>
<th>Type D</th>
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</tbody>
</table>

## 10 BUTTON MARKING

### Button Marking Orientation:

03 3 amp | 06 6 amp | 07 7 amp | 08 8 amp | 09 10 amp | 10 12 amp | 12 13 amp | 13 15 amp | 14 16 amp | 16 18 amp | 17 20 amp | 18 25 amp | 19 30 amp | 20 35 amp | 21 40 amp | 22 45 amp | 23 50 amp | 24 55 amp | 25 60 amp | 26 65 amp |

*Manufacturer reserves the right to change product specification without prior notice.*
Dimensional Specifications: in. [mm]

3-40A Construction

50 & 60A Construction

Time Trip Factor

-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

Notes:
1. Trip Time factor is a guideline that indicates ambient temperature effect on trip times at various overload values.

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

-10 °C x 0.90
-5 °C x 0.85
0 °C x 0.80
5 °C x 0.75
10 °C x 0.70
15 °C x 0.65
20 °C x 0.60
25 °C x 0.55

Notes:
1. Trip Time factor is a guideline that indicates ambient temperature effect on trip times at various overload values.

back to table of contents
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.

### Applications:
- Household Appliances
- On/Off-Highway
- Marine
- Power Strips
- Medical Equipment
- Audio Visual Equipment
- Power Supplies
- ROHS Complaint

### 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

### Resources:
- Configure a Complete Part
- Download CAD & Sales Drawing
### 1 SERIES
- **CMB**

### 3 VOLTAGE
- 125-250VAC/32 VDC

### 2 RATING
- **03** 3 amps
- **04** 4 amps
- **05** 5 amps
- **06** 6 amps
- **07** 7 amps
- **08** 8 amps
- **10** 10 amps
- **12** 12 amps
- **13** 13 amps
- **14** 14 amps
- **15** 15 amps
- **16** 16 amps
- **20** 20 amps

### 4 MOUNTING HOLE
- **11** M11
- **12** M12
- **00** Snap In Style
- **27** 3/8" 27 UNS
- **28** 3/8" 27 UNS (double flatted)

### 5 BUSHING
- **C** Type C
- **D** Type D
- **E** Type E
- **G** Type G
- **H** Type H
- **K** Type K

### 6 MOUNTING NUT
- **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
- **R** Type R

### 7 INDICATOR PLATE
- **N** None
- **A** Embossed Legend
- **B** Silver Printing

### 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
- **R** Type R

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

### Notes:
- All dimensions are in [mm]. Tolerance ±.005 [ .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.
- Amp rating must match button marking (ex: 20 will be marked on the button of CMB-203-27G2N-W-A/20).
- Includes molded in "PRESS TO RESET" marking.
- Available with K bushing only.
- Available with G or J bushing only.
- Thickness is 3.0 mm, .118 in.

*Manufacturer reserves the right to change product specification without prior notice.*
Dimensional Specifications: in. [mm]

1.154 [29.3] in. 

1.781 [45.2] in.

Time Delay

<table>
<thead>
<tr>
<th>Overload</th>
<th>Trip Time</th>
<th>Time Trip Factor 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>No Trip</td>
<td></td>
</tr>
<tr>
<td>150%</td>
<td>Trip in 1 hr</td>
<td></td>
</tr>
<tr>
<td>200%</td>
<td>4.0 ~ 40 sec.</td>
<td></td>
</tr>
<tr>
<td>300%</td>
<td>0.9 ~ 8.0 sec.</td>
<td></td>
</tr>
<tr>
<td>400%</td>
<td>0.42 ~ 5.0 sec.</td>
<td></td>
</tr>
<tr>
<td>500%</td>
<td>0.25 ~ 3.0 sec.</td>
<td></td>
</tr>
<tr>
<td>600%</td>
<td>0.01 ~ 1.8 sec.</td>
<td></td>
</tr>
<tr>
<td>100%</td>
<td>x 1.70</td>
<td></td>
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<tr>
<td>-10 °C</td>
<td>-5 °C</td>
<td>0 °C</td>
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<td>25 °C</td>
<td>x 1.40</td>
<td>x 1.30</td>
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<tr>
<td>x 1.20</td>
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<td>x 0.90</td>
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<tr>
<td>x 0.60</td>
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</tbody>
</table>

Notes:
1. Trip Time factor is a guideline that indicates ambient temperature effect on trip times at various overload values.
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

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### CTB - B - B - 05 - B

1 **Series**
2 **Bezel Color**
3 **Rocker Color**
4 **Rating**
5 **Panel Thickness**

1 **SERIES**
   - CTB

2 **BEZEL COLOR 1**
   - B Black

3 **ROCKER COLOR 1**
   - B Black

4 **RATING**
   - 03 3 amps
   - 04 4 amps
   - 05 5 amps
   - 06 6 amps
   - 07 7 amps
   - 08 8 amps
   - 09 9 amps
   - 10 10 amps
   - 12 12 amps
   - 13 13 amps
   - 14 14 amps
   - 15 15 amps
   - 16 16 amps

5 **PANEL THICKNESS**
   - Blank fits standard thickness of .032 – .062
   - B fits .070 – .110 panel thickness

**Notes:**
1. Additional colors available. Consult factory.

### Dimensional Specifications: in. [mm]

- 1.535 [38.99] MAX
- .325[8.26] MAX
- .540 [13.71] MAX
- .190 [4.83] MAX
- .760[19.31] MAX
- .625[15.875] MAX
- 250 X .032 [6.35 X .813]
- QUIC K CONNECT TERMINAL

**RECOMMENDED PANEL THICKNESS:**
- .032 - .062 [.81 - 1.57]

### Time Delay

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

**Correction Factor**

- 0 °C x 0.85
- 10 °C x 0.90
- 15 °C x 0.925
- 18 °C x 0.952
- 25 °C x 1.00
- 32 °C x 1.05
- 40 °C x 1.15
- 50 °C x 1.39
- 60 °C x 1.49

**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.*
Below is a list of useful product catalogs. Please scan the QR codes below or visit carlingtech.com/onthego for complete details.

**WEBSITE**
Product Selector, Resources, Configurit, Find Rep, Product Materials and Videos.

**SWITCHES AND CONTROLS**
Rocker, toggle, pushbutton, rotary, battery disconnects and controls.

**MINI & SUB-MINI SWITCHES**
Sealed and non-sealed rocker, toggle, pushbutton and slide options.

**HYDRAULIC-MAGNETIC CIRCUIT PROTECTION**
1-6 poles from .02 to 700A with CSA, VDE, TUV, UL489, UL489A, UL1500 approvals.

**THERMAL CIRCUIT PROTECTION**
1 pole from 3 to 60A with UL, cUL, CE, UL1500/ISO 8846 approvals.

**GFCI/ELCI CIRCUIT PROTECTION**
1-3 poles from 0.10 to 50A with CSA, UL489, UL1077, UL1053, UL1500 approvals.
Below is a list of useful market specific catalogs and brochures. Please scan the QR codes below or visit carlingtech.com/onthego for complete details.

**ON-OFF HIGHWAY**
Switches, Controls and Custom Solutions

**MARINE**
Circuit Protection and Switches

**RENEWABLE ENERGY**
Circuit Breakers and Disconnect products

**MILITARY**
COTS Switches and Circuits Breakers

**TELECOM/DATACOM**
Hydraulic-Magnetic Circuit Breakers

**INDUSTRIAL AUTOMATION**
Switches and Circuit Breakers
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