

C-Series

REMOTE OPERATED CIRCUIT BREAKER

The C-Series remote operated circuit breaker consists of a custom designed remote operated motor module (housed within a circuit breaker molding) coupled to a C-Series hydraulic-magnetic circuit breaker. The remote operated circuit breaker (ROCB) offers the convenience of remote ON, OFF, and Reset capability combined with the safety and accuracy of a standard magnetic current sensing device. This allows operation of the circuit breaker from various locations in a system, facility or site without sacrificing the ability to manually operate the breaker if required. Service, diagnostics, load shedding and power distribution control functions can now be performed in areas that were previously unattended, inaccessible.

The ROCB module can be mounted on either side of the host breaker, while occupying only the width of a standard C-Series pole. Several interface methods are available.



Product Highlights:

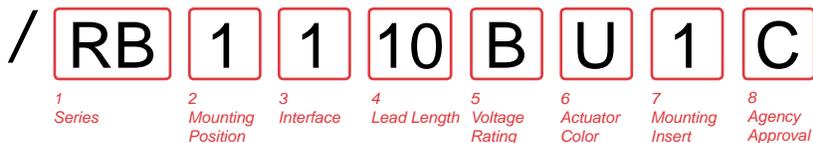
- Ⓢ ON-OFF and trip indication
- Ⓢ Load shedding
- Ⓢ Energy management
- Ⓢ Compact size
- Ⓢ Automatic reset capable
- Ⓢ Choice of interface styles
- Ⓢ Panel mounting
- Ⓢ Manual Operation Override
- Ⓢ Fits into industry standard cut-out

ROCB Motor Specifications:

- Ⓢ Voltage input: 12 VDC to 80 VDC
- Ⓢ Start current: < 1 amp
- Ⓢ Switching time: < 2 seconds
- Ⓢ Operating Temperature: -25°C to 80°C

To order a remote operated circuit breaker, add / plus the remote module part number to the end of the C-Series circuit breaker catalog number. ex. CA1BO24620121C/RB1110BU1C

Match color & mounting inserts of breaker.



1 SERIES
RB

2 MOUNTING POSITION
As viewed from back of breaker, line side up, pole 1 left.
1 Left Side
2 Right Side

3 INTERFACE
1 Flying Leads
2 Integral Connector
3 Flying Leads with 4 pin dual row connector (female)
4 Flying Leads with 4 pin dual row connector (male)

4 LEAD LENGTH

00 No Lead	10 10"	21 21"
01 1"	11 11"	22 22"
02 2"	12 12"	23 23"
03 3"	13 13"	24 24"
04 4"	14 14"	25 25"
05 5"	15 15"	26 26"
06 6"	16 16"	27 27"
07 7"	17 17"	28 28"
08 8"	18 18"	29 29"
09 9"	19 19"	30 30"
	20 20"	

5 VOLTAGE RATING
A 12 VDC
B 20-40 VDC
C 41-80 VDC

6 ACTUATOR COLOR
T White
U Black
V Red
W Yellow

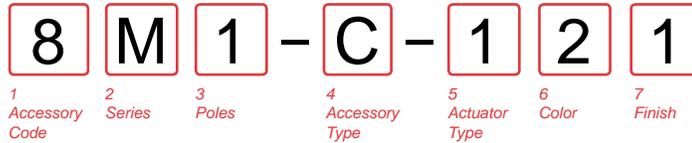
7 MOUNTING INSERT
1 6-32 x 0.195"
2 ISO M3 x 5mm

8 AGENCY APPROVAL
C UL Recognized & CSA Accepted
E TUV Certified, UL Recognized & CSA Accepted
G UL 489 Listed & CSA Certified
I UL 1500 Ignition Protected, UL Recognized & CSA Accepted
J UL 489 Listed, CSA Certified & TUV Certified

Notes:
Integral and 4-pin dual row connectors not available with agency approval J or G: UL 489.

Panel Hole Plug

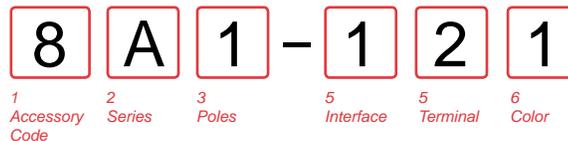
Threaded insert A & B-Series hole plugs are available in gloss finish. Snap-In A & B-Series hole plugs are available in matte finish.



<p>1 ACCESSORY CODE</p> <p>8</p>	<p>5 ACTUATOR TYPE & MOUNTING STYLE</p> <table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">Actuator Type</th> <th style="text-align: left;">Mounting Style</th> </tr> <tr> <td>1 M-Series Rocker</td> <td>Front Panel Snap-In</td> </tr> <tr> <td>2 A & B-Series Rocker</td> <td>6-32 Threaded Insert</td> </tr> <tr> <td>3 A & B-Series Rocker</td> <td>ISO M3 Threaded Insert</td> </tr> <tr> <td>6 C & D-Series Handle</td> <td>6-32 Threaded Insert</td> </tr> <tr> <td>7 C & D-Series Handle</td> <td>ISO M3 Threaded Insert</td> </tr> <tr> <td>8 A, B, C & D-Series Handle</td> <td>Front Panel Snap-In</td> </tr> </table>	Actuator Type	Mounting Style	1 M-Series Rocker	Front Panel Snap-In	2 A & B-Series Rocker	6-32 Threaded Insert	3 A & B-Series Rocker	ISO M3 Threaded Insert	6 C & D-Series Handle	6-32 Threaded Insert	7 C & D-Series Handle	ISO M3 Threaded Insert	8 A, B, C & D-Series Handle	Front Panel Snap-In
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<p>2 SERIES</p> <p>A A & B-Series C C & D-Series M M-Series</p>	<p>6 COLOR</p> <p>1 White (M-Series only) 2 Black 7 Gray (M-Series only)</p>														
<p>3 POLES</p> <p>1 One Pole A, B, C & D-Series Front Panel Snap-In Only 2 Multi-Pole Inner 3 Multi-Pole Outer</p>	<p>7 FINISH</p> <p>1 Matte 2 Gloss (A & B-Series only)</p>														
<p>4 ACCESSORY TYPE</p> <p>C Panel Hole Plug</p>															

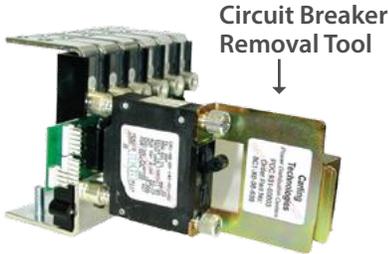
A & B-Series PCB Socket

The PCB socket is available with the A-Series Handle, DC up to 30 amps; A-Series Rocker, AC/DC up to 30 amps, and B-Series handle, AC/DC up to 30 amps.



<p>1 ACCESSORY CODE</p> <p>8</p>	<p>4 INTERFACE WITH AUXILIARY SWITCH</p> <p>1 Yes 2 No</p>
<p>2 SERIES</p> <p>A A & B-Series</p>	<p>5 AUXILIARY SWITCH TERMINAL TYPE</p> <p>1 TAB, 0.110 Inches (Symmetrical terminal spacings) 3 None</p>
<p>3 POLES</p> <p>1 One Pole</p>	<p>6 COLOR</p> <p>B Black</p>

C-Series with Push-In Stud Terminals Removal Tool



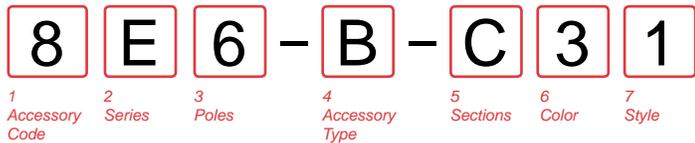
8C1-X0-08-639

1 Part Number

1 PART NUMBER	
8C1-X0-08-639	Removal Tool for 6-32 inserts
8C1-X0-09-593	Removal Tool for M3 inserts

C & E-Series Power Selector

The number of lockout sliding handles provided is one less than the number of sections specified, allowing one section to be live at a time.



1 ACCESSORY CODE
8

2 SERIES
C C & D-Series
E E-Series

3 POLES
4 4 Poles
6 6 Poles
9¹ 9 Poles

4 ACCESSORY TYPE
B Power Lockout Kit

5 SECTIONS & POLES PER SECTION		
	Number of Sections	Poles Per Section
B	Two	Two
C	Two	Three
F	Three	Two
G	Three	Three

6 COLOR
2 Black
3 Red

7 STYLE
1 Carling Logo

Notes:
1 9 Pole option only available on E-Series