C-Series
Circuit Breaker

The C-Series hydraulic/magnetic circuit breakers are ideal for applications that require higher amperage and voltage handling capability in a smaller package. They are available in 1-6 poles, 0.02-100amps, UL Recognized up to 480VAC or 150VDC, UL489 Listed up to 240VAC or 125VDC, with choice of time delays, terminal options, actuator styles and colors.

Product Highlights:
- The UL489 C-Series employs a unique arc chute design which allows for higher interrupting capacities of up to 10,000 amps. New thermoset glass filled polyester half shell construction provides for increased mechanical and electrical strength. The wiping contacts, mechanical linkage with two step actuation, clean contacts providing high, positive contact pressure and longer contact life
- Available with American Standard or Metric Threaded Stud terminals, or Saddle Clamp screw terminals. Optional mid-trip handle style actuator allows visual indication of electrical overload with or without alarm feature
- Available with new solid color rocker actuators and unique two-color Visi-rocker® actuators, which can be specified to indicate either the ON or TRIPPED/OFF mode
- Exclusive Rockerguard and Push-To-Reset bezel help prevent inadvertent actuation

Agency Certifications:
UL Recognized
UL Standard 1077 | UL Standard 508
UL Standard 1500
UL Listed
UL Standard 489 | UL Standard 489A
CSA Accepted | CSA Certified
TUV Certified | VDE Certified

* For full Agency Certifications, please see pg. 6
## Electrical Tables

### Table A:
Lists UL Recognized & CSA Accepted configurations and performance capabilities as a Component Supplementary Protector

<table>
<thead>
<tr>
<th>SERIES</th>
<th>VOLTAGEN</th>
<th>CURRENT RATING</th>
<th>SHORT CIRCUIT CAPACITY (AMPS)</th>
<th>APPLICATION CODES</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 DC</td>
<td>150-175</td>
<td>5000</td>
<td>TC1, OL, U2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200 DC</td>
<td>101-175</td>
<td>5000</td>
<td>TC1, OL, U2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>250 DC</td>
<td>101-175</td>
<td>5000</td>
<td>TC1, OL, U2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 DC</td>
<td>101-175</td>
<td>5000</td>
<td>TC1, OL, U2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### Notes for Table A:

1. Requires branch circuit backup with a UL LISTED Type K5 or RK5 fuse rated 15A minimum and no more than 4 times full load amps not to exceed 125A for 50 Amp or less rating and not to exceed 175 for 51 through 100 Amp rating.

2. Requires Type K5 or RK5 15A fuse minimum and not to exceed 4 times full load amps not to exceed 125A for 50 Amp or less rating and not to exceed 175 for 51 through 100 Amp rating.

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

**Table B:** Lists UL Recognized and CSA Accepted configurations and performance capabilities as a Manual Motor Controller.

<table>
<thead>
<tr>
<th>C-SERIES TABLE B: MANUAL MOTOR CONTROLLERS</th>
<th>MAX. RATING</th>
<th>CURRENT RATING</th>
<th>HORSEPOWER RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIRCUIT CONFIGURATION</td>
<td>VOLTAGE</td>
<td>VOLTAGE</td>
<td>PHASE</td>
</tr>
<tr>
<td>SERIES, SHUNT &amp; RELAY SWITCH ONLY</td>
<td>120</td>
<td>50 / 60</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>250</td>
<td>50 / 60</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>277</td>
<td>50 / 60</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>480</td>
<td>50 / 60</td>
<td>3</td>
</tr>
</tbody>
</table>

Notes for Table B:
1. UL recognized and CSA Accepted at 480V refers to 3 & 4 pole versions used in a 3Ø, wye connected circuit or 2-pole version connected with 2 poles breaking. 1Ø and backed up with series fusing as stated above in note 1.
2. Series, Shunt and Relay Trip - Voltage Coil Construction not current coils

**Table C:** Lists UL Recognized, CSA Accepted, VDE and TUV Certified configurations and performance capabilities as a Component Supplementary Protector.

<table>
<thead>
<tr>
<th>C-SERIES TABLE C: COMPONENT SUPPLEMENTARY PROTECTORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIRCUIT CONFIGURATION</td>
</tr>
<tr>
<td>CIRCUIT CONFIGURATION</td>
</tr>
<tr>
<td>CIRCUIT CONFIGURATION</td>
</tr>
<tr>
<td>CIRCUIT CONFIGURATION</td>
</tr>
<tr>
<td>CIRCUIT CONFIGURATION</td>
</tr>
</tbody>
</table>

Notes for Table C:
1. General Purpose ratings for UL/CSA only.
2. Requires branch circuit backup with a UL LISTED Type K5 or RK5 fuse rated 15A minimum and no more than 4 times full load amps not to exceed 125A for 50 Amp or less rating and not to exceed 175 for 51 through 100 Amp rating.
### Electrical Tables

**Table D**: Lists UL Listed (489), CSA Certified (C22.2 No. 5.1-M) configuration and performance capabilities as a Molded Case Circuit Breaker.

<table>
<thead>
<tr>
<th>CIRCUIT CONFIGURATION</th>
<th>VOLTAGE</th>
<th>CURRENT RATING</th>
<th>INTERRUPTING CAPACITY (AMPS)</th>
<th>CONSTRUCTION NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAX RATING</td>
<td>FREQUENCY</td>
<td>PHASE</td>
<td>FULL LOAD AMPS</td>
</tr>
<tr>
<td>80 DC</td>
<td>50 / 60</td>
<td>1</td>
<td>0.10 - 100</td>
<td>50,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Limited to 2 Poles Max from 71 - 100 Amps.</td>
</tr>
<tr>
<td>125 DC</td>
<td>50 / 60</td>
<td>1</td>
<td>0.10 - 100</td>
<td>5,000</td>
</tr>
<tr>
<td>125 / 250 DC</td>
<td>50 / 60</td>
<td>1</td>
<td>0.10 - 50</td>
<td>5,000</td>
</tr>
<tr>
<td>120 / 240 DC</td>
<td>50 / 60</td>
<td>1</td>
<td>0.10 - 50</td>
<td>5,000</td>
</tr>
<tr>
<td>240 DC</td>
<td>50 / 60</td>
<td>1</td>
<td>0.10 - 30</td>
<td>5,000</td>
</tr>
<tr>
<td>277 DC</td>
<td>50 / 60</td>
<td>1</td>
<td>0.10 - 20</td>
<td>5,000</td>
</tr>
<tr>
<td>240 DC</td>
<td>50 / 60</td>
<td>1</td>
<td>0.10 - 20</td>
<td>5,000</td>
</tr>
</tbody>
</table>

**Notes from Table D**: 1 Special catalog number required. Consult factory.

**Table E**: Lists UL Recognized, CSA Accepted configurations and performance capabilities as Protectors, Supplementary for Marine Electrical and Fuel Systems (Guide PEQZ2, File E75596). Ignition Protected per UL 1500. UL Classified Small Craft Electrical Devices, Marine in accordance with ISO 8846 (Guide UZMK, File MQ1515) as Marine Supplementary Protectors.

<table>
<thead>
<tr>
<th>CIRCUIT CONFIGURATION</th>
<th>VOLTAGE</th>
<th>CURRENT RATING</th>
<th>INTERRUPTING CAPACITY (AMPS)</th>
<th>APPLICATION CODES</th>
<th>CONSTRUCTION NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAX RATING</td>
<td>FREQUENCY</td>
<td>PHASE</td>
<td>FULL LOAD AMPS</td>
<td>WITHOUT BACKUP FUSE</td>
</tr>
<tr>
<td>48 DC</td>
<td>0.02 - 100</td>
<td>5000</td>
<td>101 - 150</td>
<td>5000</td>
<td>TC1,2,OL,1U1,TC1,2,OL,1U1</td>
</tr>
<tr>
<td>65 DC</td>
<td>0.02 - 100</td>
<td>1500</td>
<td>50 / 60</td>
<td>1500</td>
<td>TC1,2,OL,0U1,TC1,2,OL,0U1</td>
</tr>
<tr>
<td>80 DC</td>
<td>0.02 - 70</td>
<td>1500</td>
<td>50 / 60</td>
<td>1500</td>
<td>TC1,2,OL,1U1,TC1,2,OL,1U1</td>
</tr>
<tr>
<td>125 50 / 60 1</td>
<td>0.02 - 70</td>
<td>71 - 100</td>
<td>50,000</td>
<td>50,000</td>
<td>TC1,2,OL,1U1,TC1,2,OL,1U1</td>
</tr>
<tr>
<td>250 50 / 60 1</td>
<td>0.02 - 70</td>
<td>71 - 100</td>
<td>71 - 100</td>
<td>1500</td>
<td>TC1,2,OL,1U1,TC1,2,OL,1U1</td>
</tr>
</tbody>
</table>

**Table F**: Lists UL Listed configurations and performance capabilities as Circuit Breakers for use in Communications Equipment (Guide DITT, File E189195), under UL489A.

<table>
<thead>
<tr>
<th>CIRCUIT CONFIGURATION</th>
<th>VOLTAGE</th>
<th>CURRENT RATING</th>
<th>INTERRUPTING CAPACITY (AMPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAX RATING</td>
<td>FREQUENCY</td>
<td>GENERAL PURPOSE AMPS</td>
</tr>
<tr>
<td>80 DC</td>
<td>110 - 250</td>
<td>10,000</td>
<td>--</td>
</tr>
</tbody>
</table>

---
**Electrical**

- **Maximum Voltage:** AC, 480 WYE/277 VAC, 50/60 Hz (see Table A.)
- **Current Rating:** Standard current coils: 0.100, 0.250, 0.500, 0.750, 1.00, 2.50, 5.00, 7.50, 10.0, 15.0, 25.0, 30.0, 35.0, 40.0, 50.0, 60.0, 70.0, 80.0, 90.0 and 100 amps. Other ratings available, see Ordering Scheme.
- **Standard Voltage Coils:** DC - 6V, 12V, AC - 120V; other ratings available, see Ordering Scheme.
- **Auxiliary Switch Rating:** SPDT, 10.1 amps-250VAC, DC Aux. Switch 1.0A, 65 VDC. 0.5A, 80VDC, 1/4 HP, 125VAC, VDE & TUV 1.0 125 VAC.
- **Insulation Resistance, Impedance:** Minimum of 100 Megohms at 500 VDC. UL, CSA: 1960 V 50/60 Hz for one minute between all electrically isolated terminals. C-Series Circuit Breakers comply with the 8mm spacing and 3750V 50/60 Hz dielectric requirements from hazardous voltage to operator accessible surfaces, between adjacent poles and from main circuits to auxiliary circuits per Publications EN 60950 and VDE 0805.
- **Resistance, Impedance:** Values from Line to Load Terminal based on Series Trip Circuit Breaker.

**Pulse Tolerance Curves**

**Mechanical**

- **Endurance:** 10,000 ON-OFF operations @ 6 per minute; with rated current & voltage
- **Trip Free:** All C-Series circuit breakers will trip on overload, even when actuator is forcibly held in the ON position.
- **Trip Indication:** The operating actuator moves positively to the OFF position when an overload causes the breaker to trip. With mid-trip, handle moves to the mid position on electrical trip of the circuit breaker. With mid trip handle with alarm switch, handle moves to the mid position and the alarm switch actuates when the circuit breaker is electrically tripped.

**Physical**

- **Number of Poles:** 1-6 poles ≤ 50A; 1-4 poles ≤ 51-70A; 1-2 poles 71-100A. UL489 Handle: 1 pole ≤ 100A, 2 pole ≤ 50A; Rocker: 1 pole ≤ 100A.
- **Internal Circuit Configuration:** Series (with or without auxiliary switch, mid trip & mid trip with alarm switch) Shunt & Relay with current or voltage trip coils, Dual Coil, Switch Only (with or without aux. switch). UL489: Series (with or without auxiliary switch, mid-trip & mid-trip with alarm switch). Approx.112 grams/pole (3.95 oz).
- **Weight:** Housing: Black
- **Standard Colors:**

**Environmental**

Designed and tested in accordance with requirements of specification MIL-PRF-55629 & MIL-STD-202 as follows:

- **Shock:** Withstands 100 Gs, 6ms sawtooth while carrying rated current per Method 213, Test Condition “I”. Instantaneous and ultrashort curves tested @ 90% of rated current.
- **Vibration:** Withstands 0.060” excursion from 10-55 Hz & 10 Gs 55-500 Hz. @ rated current per Method 204C, Test Cond. A. Instantaneous & ultrashort curves tested @ 90% of rated current.
- **Moisture Resistance:** Method 106D, i.e., ten 24-hour cycles @ +25°C to +65°C, 80-98% RH
- **Salt Spray:** Method 101, Condition A (90-95% RH @ 5% NaCl Solution, 96 hrs). Method 107D, Condition A (five cycles @ -55°C to +25°C to +85°C to +25°C).
- **Thermal Shock:** Method 104, ±5°C to +175°C 64hrs.
- **Operating Temperature:** -40°C to +85°C
Agency Certifications:

**UL Recognized**

UL Standard 1077  
Component Recognition Program as Protectors, Supplementary  
(Guide CCN/QVNU2, File E75596)

UL Standard 508  
Motor Controllers, Manual  
(Guide CCN/NLRV2, File E135367)

UL Standard 1500  
Protectors, Supplementary for Marine Electrical & Fuel Systems  
(Guide PEQZ2, File E75596)  
Ignition Protection

**UL Listed**

UL Standard 489  
Circuit Breakers, Molded Case,  
(Guide DIVQ, File E129899)

UL Standard 489A  
Communications Equipment  
(Guide CCN/DITT, File E189195)

**CSA Accepted**

Component Supplementary Protector under Class 3215 30,  
File 047848 0 000  
CSA Standard C22.2 No. 235

**CSA Certified**

Circuit Breaker Model Case  
(Class 1432 01, File 093910),  
CSA Standard C22.2 No. 5.1 - M

**TUV Certified**

EN60934, under License No.  
R72041016

**VDE Certified**

EN60934, VDE 0642 under File No.  
10537
### 1 Series C

#### 2 Actuator
- **A**: Handle, one per pole
- **B**: Handle, one per multipole unit
- **S**: Mid-Trip, one per pole and Alarm Switch
- **T**: Mid-Trip, one per pole & Alarm Switch

#### 3 Poles
- **1**: One
- **2**: Two
- **3**: Three
- **4**: Four
- **5**: Five
- **6**: Six

#### 4 Circuit
- **A**: Switch Only (no coil)
- **B**: Series Trip (current)
- **C**: Series Trip (voltage)
- **D**: Shunt Trip (current)
- **E**: Shunt Trip (voltage)

#### 5 Auxiliary/Alarm Switch
- **0**: without Aux Switch
- **1**: S.P.D.T., 0.190 Q.C. Terminal
- **2**: S.P.D.T., 0.110 Q.C. Terminal
- **3**: S.P.D.T., 0.139 Solder Lug
- **4**: S.P.D.T., 0.110 Q.C. Terminal (Gold Contacts)

#### 6 Frequency & Delay
- **03**: DC 50/60Hz, Switch Only
- **10**: DC Instantaneous
- **11**: DC Ultra Short
- **12**: DC Short
- **14**: DC Medium
- **16**: DC Long
- **20**: 50/60Hz Instantaneous
- **21**: 50/60Hz Ultra Short
- **22**: 50/60Hz Short
- **26**: 50/60Hz Long

#### 7 Current Rating
- **20**: 0.020
- **25**: 0.025
- **30**: 0.030
- **35**: 0.035
- **40**: 0.040
- **45**: 0.045
- **50**: 0.050
- **55**: 0.055
- **60**: 0.060
- **65**: 0.065
- **70**: 0.070
- **75**: 0.075
- **80**: 0.080
- **85**: 0.085
- **90**: 0.090
- **95**: 0.095
- **100**: 0.100

#### 8 Terminal
- **0**: Stud 10-32, threaded
- **1**: Screw 10-32
- **2**: Stud 1/4-20, threaded
- **3**: Screw M5 x 0.8, threaded
- **4**: Screw M5 x 0.8

#### 9 Actuator Color & Legend
- **A**: Handle tie pin spacer(s) and retainers provided as assembled with multi-pole units
- **B**: Handle location as viewed from front: 2 pole - left pole; 3 pole - center pole; 4 pole - two handles at center poles; 5 pole - three handles at center poles; 6 pole - four handles at center poles
- **S**: Handle moves to mid-position only upon electrical trip of the breaker. Available with circuit codes B, C, D, E, F, G, H, and K.
- **T**: Handle moves to mid-position and alarm switch activates only upon electrical trip of the breaker. Available with circuit codes B & C.
- **C**: Standard multipole units have all poles identical except when specifying auxiliary switch and/or mixed poles. Pole max varies with VDE certification when tied to a protected pole (Circuit Code C, D, E, or H).
- **R**: Handle tie pin spacer(s) and retainers provided as assembled with multi-pole units
- **E**: Handle location as viewed from front: 2 pole - left pole; 3 pole - center pole; 4 pole - two handles at center poles; 5 pole - three handles at center poles; 6 pole - four handles at center poles
- **S**: Handle moves to mid-position only upon electrical trip of the breaker. Available with circuit codes B, C, D, E, F, G, H, and K.
- **T**: Handle moves to mid-position and alarm switch activates only upon electrical trip of the breaker. Available with circuit codes B & C.

#### 10 Mouting/Barrriers
- **A**: UL Recognized, CSA Accepted
- **B**: DVE Certified, UL Recognized, CSA Accepted
- **C**: TUV Certified, UL Recognized, CSA Accepted
- **D**: UL489 Construction: VDE Certified, UL Recognized, CSA Accepted
- **E**: UL Rec. STD 1077, UL Rec. 1500 (ignition protected), CSA Accepted
- **F**: UL489 Construction: UL Recognized, CSA Accepted
- **G**: UL489 Construction: TUV Certified, UL Recognized, CSA Accepted

#### Voltage Coil (Nominal Rated Voltage)

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
<th>Terminal</th>
<th>Actuator Code</th>
<th>Color</th>
<th>Agency Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>A16</td>
<td>6DC</td>
<td>A32</td>
<td>12AC</td>
<td>Black</td>
<td>UL Rec. STD 1077, UL Rec. 1500 (ignition protected), CSA Accepted</td>
</tr>
<tr>
<td>A12</td>
<td>12DC</td>
<td>A48</td>
<td>18AC</td>
<td>Black</td>
<td>UL Rec. STD 1077, UL Rec. 1500 (ignition protected), CSA Accepted</td>
</tr>
<tr>
<td>A18</td>
<td>18DC</td>
<td>A65</td>
<td>24AC</td>
<td>Black</td>
<td>UL Rec. STD 1077, UL Rec. 1500 (ignition protected), CSA Accepted</td>
</tr>
<tr>
<td>A24</td>
<td>24DC</td>
<td>J06</td>
<td>6AC</td>
<td>Black</td>
<td>UL Rec. STD 1077, UL Rec. 1500 (ignition protected), CSA Accepted</td>
</tr>
</tbody>
</table>

---

Notes:
- Actuator Code:
  - **A**: Handle tie pin spacer(s) and retainers provided as assembled with multi-pole units
  - **B**: Handle location as viewed from front: 2 pole - left pole; 3 pole - center pole; 4 pole - two handles at center poles; 5 pole - three handles at center poles; 6 pole - four handles at center poles
  - **S**: Handle moves to mid-position only upon electrical trip of the breaker. Available with circuit codes B, C, D, E, F, G, H, and K.
  - **T**: Handle moves to mid-position and alarm switch activates only upon electrical trip of the breaker. Available with circuit codes B & C.

- Standard multipole units have all poles identical except when specifying auxiliary switch and/or mixed poles. Pole max varies with VDE certification when tied to a protected pole (Circuit Code C, D, E, or H).
- For 02 to 30 amps, select Current Code 650. For 30 - 50 amps, select Current Code 650. For 55-70 amps, select Current Code 670. For 75-100 amps, select Current Code 810.
- Circuit Codes D, F, H, K, L, N, and T are not VDE, TUV, or CSA approved for limited to AC Delays. “General Purpose amps” not rated for “full load amps” or to be used in applications with a motor.
C
A
2
P
0
D4
820
3
2
1
M
T

1 SERIES
C

2 ACTUATOR\(^1\)
A  Handle, one per pole
S  Mid-Trip Handle, one per pole
T  Mid-Trip, one per pole & Alarm Switch

3 POLES\(^2\)
2  Two
3  Three

4 CIRCUIT
P  Series Trip (parallel pole)

5 AUXILIARY/ALARM SWITCH
0  without Aux Switch
2  S.P.D.T., 0.110 Q.C. Terminal
3  S.P.D.T., 0.139 Solid Lug
4  S.P.D.T., 0.110 Q.C. Terminal (Gold Contacts)

6 FREQUENCY & DELAY
D1  DC Ultra Short
D2  DC Short
D4  DC Medium
D6  DC Long

7 CURRENT RATING (AMPERES)
<table>
<thead>
<tr>
<th>CODE</th>
<th>AMPERES</th>
</tr>
</thead>
<tbody>
<tr>
<td>811</td>
<td>110.000</td>
</tr>
<tr>
<td>812</td>
<td>120.000</td>
</tr>
<tr>
<td>813</td>
<td>130.000</td>
</tr>
<tr>
<td>814</td>
<td>140.000</td>
</tr>
<tr>
<td>815</td>
<td>150.000</td>
</tr>
<tr>
<td>816</td>
<td>160.000</td>
</tr>
<tr>
<td>817</td>
<td>170.000</td>
</tr>
<tr>
<td>818</td>
<td>180.000</td>
</tr>
<tr>
<td>819</td>
<td>190.000</td>
</tr>
<tr>
<td>820</td>
<td>200.000</td>
</tr>
<tr>
<td>821</td>
<td>210.000</td>
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<td>822</td>
<td>220.000</td>
</tr>
<tr>
<td>823</td>
<td>230.000</td>
</tr>
<tr>
<td>824</td>
<td>240.000</td>
</tr>
<tr>
<td>825</td>
<td>250.000</td>
</tr>
</tbody>
</table>

8 TERMINAL\(^2\)
3  1/4-20, threaded
6  M6, threaded
A  Plug-In Stud

9 ACTUATOR COLOR
<table>
<thead>
<tr>
<th>LEGEND</th>
<th>AMPERES</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON-OFF</td>
<td>Dual</td>
</tr>
<tr>
<td>White</td>
<td>B 1</td>
</tr>
<tr>
<td>Black</td>
<td>D 2</td>
</tr>
<tr>
<td>Red</td>
<td>G 3</td>
</tr>
<tr>
<td>Green</td>
<td>J 4</td>
</tr>
<tr>
<td>Blue</td>
<td>L 5</td>
</tr>
<tr>
<td>Yellow</td>
<td>N 6</td>
</tr>
<tr>
<td>Gray</td>
<td>Q 7</td>
</tr>
<tr>
<td>Orange</td>
<td>S 8</td>
</tr>
</tbody>
</table>

10 MOUNTING/BARRIERS
MOUNTING STYLE
Threaded Insert
1  6-32 x 0.195 inches
2  ISO M3 x 5mm

11 MAXIMUM APPLICATION RATING
M  80 DC

12 AGENCY APPROVAL
T  UL489A Listed (up to 250 amps)
K  UL489A Listed, VDE Certified (up to 200 amps)
7  UL489A Listed, TUV Certified (up to 250 amps)

Notes:
1 Actuator Code:
A: Handle tie pin spacer(s) and retainers provided assembled with multi-pole units.
S: Handle moves to mid-position only upon electrical trip of the breaker.
T: Handle moves to mid-position and alarm switch activates only upon electrical trip of the breaker.

2 Terminal Code:
3 & 6: Supplied with bus bars connecting the Line and Load Terminals.
A: Line and Load Terminals must be connected to a copper bus bar having a minimum cross section of 0.078 square inches.
3 Above 200 amps, 3 poles are required.
### 1 Series
- **C**

### 2 Actuator
- **A** Handle, one per pole
- **B** Handle, one per multipole unit
- **T** Mid-Trip, one per pole & Alarm Switch

### 3 Poles
- **1** One
- **2** Two
- **3** Three

### 4 Circuit
- **B** Series Trip (current)

### 5 Auxiliary/Alarm Switch
- **0** without Aux Switch
- **2** S.P.D.T., 0.110 Q.C. Terminal
- **3** S.P.D.T., 0.119 Solid Lug
- **4** S.P.D.T., 0.119 Solid Lug (Gold Contacts)

### 6 Frequency & Delay
- **3** 50/60Hz Long
- **4** 50/60Hz Short, Hi-Inrush
- **5** 50/60Hz Medium, Hi-Inrush
- **6** 50/60Hz Medium, Hi-Inrush
- **7** 50/60Hz Medium
- **8** 50/60Hz Short
- **9** 50/60Hz Ultra Short

### 7 Current Rating (Amperes)

<table>
<thead>
<tr>
<th>Code</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>210</td>
<td>0.100</td>
</tr>
<tr>
<td>215</td>
<td>0.150</td>
</tr>
<tr>
<td>220</td>
<td>0.200</td>
</tr>
<tr>
<td>225</td>
<td>0.250</td>
</tr>
<tr>
<td>230</td>
<td>0.300</td>
</tr>
<tr>
<td>235</td>
<td>0.350</td>
</tr>
<tr>
<td>240</td>
<td>0.400</td>
</tr>
<tr>
<td>245</td>
<td>0.450</td>
</tr>
<tr>
<td>250</td>
<td>0.500</td>
</tr>
<tr>
<td>255</td>
<td>0.550</td>
</tr>
<tr>
<td>260</td>
<td>0.600</td>
</tr>
<tr>
<td>265</td>
<td>0.650</td>
</tr>
<tr>
<td>270</td>
<td>0.700</td>
</tr>
<tr>
<td>275</td>
<td>0.750</td>
</tr>
<tr>
<td>280</td>
<td>0.800</td>
</tr>
<tr>
<td>285</td>
<td>0.850</td>
</tr>
<tr>
<td>290</td>
<td>0.900</td>
</tr>
</tbody>
</table>

### 8 Terminal
- **1** Stud M6, threaded
- **2** 1/4" Clip Terminal
- **3** Stud M6 x 0.8, threaded
- **4** Screw M5 x 0.8
- **5** Screw M5 x 0.8

### 9 Actuator Color & Legend

<table>
<thead>
<tr>
<th>Color</th>
<th>Legend Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>Black</td>
</tr>
<tr>
<td>Red</td>
<td>White</td>
</tr>
<tr>
<td>Green</td>
<td>Black</td>
</tr>
<tr>
<td>Blue</td>
<td>White</td>
</tr>
<tr>
<td>Yellow</td>
<td>Black</td>
</tr>
<tr>
<td>Gray</td>
<td>Black</td>
</tr>
<tr>
<td>Orange</td>
<td>Black</td>
</tr>
</tbody>
</table>

### 10 Mounting/Barrriers

<table>
<thead>
<tr>
<th>Mounting Style</th>
<th>BARRIERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threaded Insert</td>
<td>yes</td>
</tr>
<tr>
<td>ISO M3 x 5mm</td>
<td>yes</td>
</tr>
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</table>

### 11 Maximum Application Rating

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>65 DC</td>
</tr>
<tr>
<td>B20</td>
<td>125 DC</td>
</tr>
<tr>
<td>C</td>
<td>120/240 AC</td>
</tr>
<tr>
<td>D</td>
<td>240 AC</td>
</tr>
<tr>
<td>F</td>
<td>277 AC</td>
</tr>
<tr>
<td>K</td>
<td>120 AC</td>
</tr>
<tr>
<td>M</td>
<td>80 DC</td>
</tr>
</tbody>
</table>

### 12 Agency Approval
- **A** without approvals
- **F** UL489 Listed, VDE Certified, CSA Accepted
- **G** UL489 Listed, CSA Accepted
- **J** UL489 Listed, TUV Certified, CSA Accepted

Notes:
1. Actuator Code:
   - A: Handle tie pin spacer(s) and retainers provided as assembled with multi-pole units.
   - B: Handle located, as viewed from front of breaker in left pole. 2 pole maximum.
   - S: Handle moves to mid-position only upon electrical trip of the breaker.
   - T: Handle moves to mid-position and alarm switch activates only upon electrical trip of the breaker.
   - Dual (I-O, ON-OFF) markings on all handles.

2. Standard multipole units have all poles identical except when specifying auxiliary switch and/or mixed poles.

3. On multi-pole breakers, one auxiliary switch is supplied, mounted in the extreme right pole.

4. Available up to 50 amps maximum.

5. Current ratings 71 - 100 with VDE approvals are available up to two poles maximum.

6. Terminal Codes 8, 9, & C are not VDE approved.

7. Terminal Code 1 available to 60 amps maximum.

8. Terminal Code 2, 4, & 5 & C available to 50 amps maximum.

9. Terminal Code 1 available to 100 amps maximum.

10. Terminal Code A available to 100 amps maximum.

11. VDE and TUV approvals require Dual (I-O, ON-OFF) markings on all handles.

12. Barriers supplied on multi-pole units only.
**Notes:**

1. Actuator Code M: Handle location as viewed from front of breaker:
   - 2 pole - right pole
   - 3 pole - center pole
2. Switch Only circuits, rated up to 50 amps and 3 poles, and only available with VDE. For .02 to 30 amps, select Current Code 630. For 35 - 50 amps, select Current Code 650. For 55-70 amps, select Current Code 670. For 75-100 amps, select Current Code 810.
3. Circuit Codes D.E.F.G.H.I.K available with Terminal Codes 1.2.4 & 5 only.
4. Consult factory for available Dual Coil options, as special catalog number is required. Dual Coil Voltage Coils with Shunt Trip Construction trip instantaneously on line voltage. Dual Coil Voltage Coils require 30VA minimum power to trip instantaneously and are rated for intermittent duty only.
5. Auxiliary Switch available with Series Trip and Switch Only circuits. On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole.
6. Voltage coils not rated for continuous duty. Available only with delay codes 10 and 20.
7. Available with Circuit Codes B & D only, and up to 50 amps maximum.
8. Consult factory for current ratings 71-100, in three pole units, available as special catalog number only.
9. Terminal Code A available to 60 amps maximum.
10. Terminal Codes 2.4.5 & C available to 50 amps maximum.
11. Terminal Codes 3.6 & C available to 100 amps maximum.
12. Terminal Code 7 available to 25 amps maximum.
13. Terminal Code A available to 100 amps maximum.

**C-Series Sealed Toggle UL Recognized – Ordering Scheme**

<table>
<thead>
<tr>
<th>Series</th>
<th>Actuator</th>
<th>Poles</th>
<th>Circuit</th>
<th>Auxiliary/Alarm Switch</th>
<th>Frequency &amp; Delay</th>
<th>Current Rating</th>
<th>Terminal</th>
<th>Legend Plate</th>
<th>Mounting/Barring Style</th>
<th>Agency Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>M</td>
<td>1</td>
<td>3</td>
<td>0</td>
<td>03 DC 50/60Hz</td>
<td>020 0.020</td>
<td>025 0.025</td>
<td>030 0.030</td>
<td>035 0.035</td>
<td>UL Recognized, CSA Accepted</td>
</tr>
<tr>
<td>C</td>
<td>M</td>
<td>2</td>
<td>3</td>
<td>0</td>
<td>02 DC 50/60Hz</td>
<td>020 0.020</td>
<td>025 0.025</td>
<td>030 0.030</td>
<td>035 0.035</td>
<td>UL Recognized, CSA Accepted</td>
</tr>
<tr>
<td>C</td>
<td>M</td>
<td>3</td>
<td>3</td>
<td>0</td>
<td>02 DC 50/60Hz</td>
<td>020 0.020</td>
<td>025 0.025</td>
<td>030 0.030</td>
<td>035 0.035</td>
<td>UL Recognized, CSA Accepted</td>
</tr>
</tbody>
</table>

**Current Rating (Amperes)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>A06</td>
<td>6DC</td>
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<tr>
<td>A12</td>
<td>12DC</td>
</tr>
<tr>
<td>A18</td>
<td>18DC</td>
</tr>
<tr>
<td>A24</td>
<td>24DC</td>
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</tbody>
</table>

**Current Rating (Amperes)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>J12</td>
<td>12AC</td>
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<tr>
<td>J18</td>
<td>18AC</td>
</tr>
<tr>
<td>J24</td>
<td>24AC</td>
</tr>
<tr>
<td>J48</td>
<td>48AC</td>
</tr>
</tbody>
</table>

**Agency Approval**

- C: UL Recognized, CSA Accepted
- L: UL Recognized, CSA Accepted with listed construction
- UC: UL Recognized, CSA Accepted, UL1500 ignition protection
### C-Series Rocker UL Recognized – Ordering Scheme

**1 SERIES**

#### 2 ACTUATOR

- Two Color Visi-Rocker
- C: Indicate ON, vertical legend
- D: Indicate ON, horizontal legend
- E: Indicate OFF, no legend
- F: Indicate OFF, vertical legend
- G: Indicate OFF, horizontal legend
- H: Indicate OFF, no legend
- Push-to-Reset, Visi-Rocker

#### 3 POLES

<table>
<thead>
<tr>
<th>One</th>
<th>Two</th>
<th>Three</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

### 4 CIRCUIT

- A: Switch Only (No Coil)
- B: Series Trip (Current)
- C: Series Trip (Voltage Coil)
- D: Shunt Trip (Current)
- E: Shunt Trip (Voltage)
- F: Relay Trip (Current)
- G: Relay Trip (Voltage)

### 5 AUXILIARY/ALARM SWITCH

- Without Aux Switch: 0
- 0.110 Q.C. Terminal: 1
- 0.139 Q.C. Terminal: 2
- 0.167 Q.C. Terminal: 3
- 0.187 Q.C. Terminal: 4
- S.P.D.T.: 6
- S.P.T.: 8
- P.O.D.: 9

### 6 FREQUENCY & DELAY

<table>
<thead>
<tr>
<th>Code</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>50/60Hz/60Hz Switch Only</td>
</tr>
<tr>
<td>10D</td>
<td>Instantaneous</td>
</tr>
<tr>
<td>11</td>
<td>DC Ultra Short</td>
</tr>
<tr>
<td>12</td>
<td>DC Short</td>
</tr>
<tr>
<td>14</td>
<td>DC Medium</td>
</tr>
<tr>
<td>16</td>
<td>DC Long</td>
</tr>
<tr>
<td>20</td>
<td>50/60Hz Instantaneous</td>
</tr>
<tr>
<td>21</td>
<td>50/60Hz Ultra Short</td>
</tr>
<tr>
<td>22</td>
<td>50/60Hz Short</td>
</tr>
<tr>
<td>24</td>
<td>50/60Hz Medium</td>
</tr>
<tr>
<td>26</td>
<td>50/60Hz Long</td>
</tr>
</tbody>
</table>

### 7 CURRENT RATING (AMPERES)

<table>
<thead>
<tr>
<th>Code</th>
<th>AMPERES</th>
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</thead>
<tbody>
<tr>
<td>020</td>
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</tr>
<tr>
<td>025</td>
<td>0.250</td>
</tr>
<tr>
<td>030</td>
<td>0.300</td>
</tr>
<tr>
<td>035</td>
<td>0.350</td>
</tr>
<tr>
<td>040</td>
<td>0.400</td>
</tr>
<tr>
<td>045</td>
<td>0.450</td>
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<tr>
<td>070</td>
<td>0.700</td>
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<td>080</td>
<td>0.800</td>
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<td>085</td>
<td>0.850</td>
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<td>120</td>
<td>1.200</td>
</tr>
<tr>
<td>125</td>
<td>1.250</td>
</tr>
<tr>
<td>130</td>
<td>1.300</td>
</tr>
</tbody>
</table>

### 8 TERMINAL

- Stud 10-32, threaded
- Screw 10-32
- Stud M5 x 0.8, threaded
- Stud M5 x 0.8
- Stud M6, threaded

### 9 ACTUATOR COLOR & LEGEND

<table>
<thead>
<tr>
<th>Color</th>
<th>V-Color</th>
<th>Marking</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>Black</td>
<td>White</td>
</tr>
<tr>
<td>Black</td>
<td>White</td>
<td>Red</td>
</tr>
<tr>
<td>Red</td>
<td>White</td>
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<tr>
<td>Yellow</td>
<td>Black</td>
<td>Orange</td>
</tr>
<tr>
<td>Gray</td>
<td>Black</td>
<td>Orange</td>
</tr>
</tbody>
</table>

### 10 MOUNTING/BARRIERS

- Standard Rocker Bezel
- Rockerguard Bezel
- Push-to-Reset Bezel

### 11 AGENCY APPROVAL

- UL Recognized, CSA Accepted
- VDE/TUV Certified, UL Recognized, CSA Accepted
- UL489 Construction: VDE Certified, UL Recognized, CSA Accepted
- UL489 Construction: TUV Certified, UL Recognized, CSA Accepted
## C-Series Rocker UL Listed – Ordering Scheme

### 1 Series
- C

### 2 Actuator
- C: Two Color Visi-Rocker
  - Single color, indicate ON, vertical legend
  - Single color, indicate OFF, vertical legend
  - K: Single color, horizontal legend

### 3 Poles
- 1: One
- 2: Two
- 3: Three

### 4 Circuit
- B: Series Trip (current)

### 5 Auxiliary/Alarm Switch
- 0: Without Aux Switch
- 1: S.P.D.T., 0.110 Q.C. Terminal
- 2: S.P.D.T., 0.110 Q.C. Terminal
- 3: S.P.D.T., 0.110 Q.C. Terminal (Gold Contacts)

### 6 Frequency & Delay
- 11: DC Ultra Short
- 12: DC Short
- 14: DC Medium
- 16: DC Long
- 21: 50/60Hz Ultra Short
- 22: 50/60Hz Short
- 24: 50/60Hz Medium

### 7 Current Rating
- 700: 1.000 A
- 470: 1.500 A
- 400: 2.000 A
- 300: 2.500 A
- 250: 3.000 A
- 200: 4.000 A
- 160: 4.500 A
- 120: 5.000 A
- 80: 5.500 A

### 8 Terminal
- 6: Stud 10-32, threaded
- 6: 1/4” Clip Terminal
- 6: Stud 1/4-20, threaded
- 6: Stud M5 x 0.8, threaded
- 6: Screw M5 x 0.8, washer & screw

### 9 Actuator Color & Legend
- Single Color: Rocker/Handle
- Visi-Rocker: Marking
  - Color: ON-OFF dual
  - Color: Rocker/Handle dual

### 10 Mounting/Barrriers
- Standard Rocker Bezel
- Threaded Insert, 2 per pole
- Rockerguard Bezel
- Threaded Insert, 2 per pole

### 11 Maximum Application Rating
- 65 DC
- 125 DC
- 120/240 AC
- 240 AC
- 277 AC
- 120 AC
- 80 DC

### Notes:
1. Multi-pole breakers have all breakers identical except when specifying Aux. switch and/or mixed poles, and have one rocker per breaker.
2. On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole.
3. Available up to 50 amps maximum.
4. Current ratings 71 - 100 with VDE approvals are available up to two poles maximum.
5. Terminal Code 1 available to 60 amps maximum.
6. Terminal Codes 2, 4, 5 & 6 available to 50 amps maximum.
7. Terminal Codes 3, 6, 9 & A available to 100 amps maximum.
8. Terminal Codes B, 9 & C are not VDE approved.
9. Color shown is visi and legend with remainder of rocker black.
10. Dual = ON-OFF/Dual legend on actuator.
11. VDE and TUV approval requires Dual (I-O, ON-OFF) markings on rocker.
12. Rockerguard available with all actuator codes.
13. Barriers supplied on multi-pole units only.
14. 2 & 3 pole circuit breakers required for 120/240 AC rating.
Legend on Push-to-reset bezels is white with single color actuator codes 7 & 8. Legend on Push-to-reset bezels is white with single color actuator codes 7 & 8.

Terminal Codes 7, 8, 9 & C are not VDE approved.

Terminal Codes 2, 4, 5 & C available to 50 amps maximum.

Voltage coils not rated for continuous duty. Available only with delay codes 10 and 20.

Consult factory for available Dual Coil options, as special catalog number is required. Dual Coil Voltage Coils

Auxiliary Switch available with Series Trip and Switch Only circuits. On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole Auxiliary switch codes 2 & 4 are VDE approved.

Voltage coils not rated for continuous duty. Available only with delay codes 10 and 20.

Available with Circuit Codes B & D only, and up to 50 amps maximum.

Current ratings 60-70 are available up to four poles maximum. Current ratings 71 - 100 are available up to two poles maximum.

Terminal Codes 7, 8 & C are not VDE approved.

Color shown is via legend with remainder of rocker black. Dual I-O/ON-OFF I-O legend.

Legend on Push-to-reset bezels is black with single color actuator codes 7 & 8. Legend on Push-to-reset bezels is black with single color actuator codes 7 & 8.

Released “OFF SIDE” available with actuator codes 12, 3, 8. Legends on rocker are available in wire stamping.

Push-to-reset actuators have OFF portion of rocker shrouded.

Multi-pole breakers have all poles identical except when specifying Aux. switch and/or mixed poles, and have one rocker per breaker. Rocker location as viewed from front panel: 3 pole – left pole; 5 pole – center pole.

Switch Only circuits, rated up to 50 amps and 3 poles, and only available with VDE Certification when rated to a protected pole (Circuit Code B, C, D or H). For 32 to 50 amps, select Circuit Code 630. For 35 - 50 amps, select Current Code 650. For 55-70 amps, select Circuit Code 670. For 75-100 amps, select Circuit Code 810.

Circuit Codes D, E, F, G & H available with Terminal Codes 1, 2, 4 & 5 only. Circuit Codes D, F, H & K available up to 50 amps maximum Current Rating.

Consult factory for available Dual Coil options, as special catalog number is required. Dual Coil Voltage Coils require 50% minimum power to trip instantaneously and are rated for intermittently duty only.

Auxiliary Switch available with Series Trip and Switch Only circuits. On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole Auxiliary switch codes 2 & 4 are VDE approved.

Voltage coils not rated for continuous duty. Available only with delay codes 10 and 20.

Available with Circuit Codes B & D only, and up to 50 amps maximum.

Current ratings 60-70 are available up to four poles maximum. Current ratings 71 - 100 are available up to two poles maximum.

Terminal Codes 7, 8 & C are not VDE approved.

Color shown is via legend with remainder of rocker black. Dual I-O/ON-OFF I-O legend.

Legend on Push-to-reset bezels is black with single color actuator codes 7 & 8. Legend on Push-to-reset bezels is black with single color actuator codes 7 & 8.

Released “OFF SIDE” available with actuator codes 12, 3, 8. Legends on rocker are available in wire stamping.

Push-to-reset actuators have OFF portion of rocker shrouded.

Multi-pole breakers have all poles identical except when specifying Aux. switch and/or mixed poles, and have one rocker per breaker. Rocker location as viewed from front panel: 3 pole – left pole; 5 pole – center pole.

Switch Only circuits, rated up to 50 amps and 3 poles, and only available with VDE Certification when rated to a protected pole (Circuit Code B, C, D or H). For 32 to 50 amps, select Circuit Code 630. For 35 - 50 amps, select Current Code 650. For 55-70 amps, select Circuit Code 670. For 75-100 amps, select Circuit Code 810.

Circuit Codes D, E, F, G & H available with Terminal Codes 1, 2, 4 & 5 only. Circuit Codes D, F, H & K available up to 50 amps maximum Current Rating.

Consult factory for available Dual Coil options, as special catalog number is required. Dual Coil Voltage Coils require 50% minimum power to trip instantaneously and are rated for intermittently duty only.

Auxiliary Switch available with Series Trip and Switch Only circuits. On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole Auxiliary switch codes 2 & 4 are VDE approved.

Voltage coils not rated for continuous duty. Available only with delay codes 10 and 20.

Available with Circuit Codes B & D only, and up to 50 amps maximum.

Current ratings 60-70 are available up to four poles maximum. Current ratings 71 - 100 are available up to two poles maximum.

Terminal Codes 7, 8 & C are not VDE approved.

Color shown is via legend with remainder of rocker black. Dual I-O/ON-OFF I-O legend.

Legend on Push-to-reset bezels is black with single color actuator codes 7 & 8. Legend on Push-to-reset bezels is black with single color actuator codes 7 & 8.

Released “OFF SIDE” available with actuator codes 12, 3, 8. Legends on rocker are available in wire stamping.

Push-to-reset actuators have OFF portion of rocker shrouded.

Multi-pole breakers have all poles identical except when specifying Aux. switch and/or mixed poles, and have one rocker per breaker. Rocker location as viewed from front panel: 3 pole – left pole; 5 pole – center pole.

Switch Only circuits, rated up to 50 amps and 3 poles, and only available with VDE Certification when rated to a protected pole (Circuit Code B, C, D or H). For 32 to 50 amps, select Circuit Code 630. For 35 - 50 amps, select Current Code 650. For 55-70 amps, select Circuit Code 670. For 75-100 amps, select Circuit Code 810.

Circuit Codes D, E, F, G & H available with Terminal Codes 1, 2, 4 & 5 only. Circuit Codes D, F, H & K available up to 50 amps maximum Current Rating.

Consult factory for available Dual Coil options, as special catalog number is required. Dual Coil Voltage Coils require 50% minimum power to trip instantaneously and are rated for intermittently duty only.

Auxiliary Switch available with Series Trip and Switch Only circuits. On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole Auxiliary switch codes 2 & 4 are VDE approved.

Voltage coils not rated for continuous duty. Available only with delay codes 10 and 20.

Available with Circuit Codes B & D only, and up to 50 amps maximum.

Current ratings 60-70 are available up to four poles maximum. Current ratings 71 - 100 are available up to two poles maximum.

Terminal Codes 7, 8 & C are not VDE approved.

Color shown is via legend with remainder of rocker black. Dual I-O/ON-OFF I-O legend.

Legend on Push-to-reset bezels is black with single color actuator codes 7 & 8. Legend on Push-to-reset bezels is black with single color actuator codes 7 & 8.

Released “OFF SIDE” available with actuator codes 12, 3, 8. Legends on rocker are available in wire stamping.

Push-to-reset actuators have OFF portion of rocker shrouded.

Multi-pole breakers have all poles identical except when specifying Aux. switch and/or mixed poles, and have one rocker per breaker. Rocker location as viewed from front panel: 3 pole – left pole; 5 pole – center pole.

Switch Only circuits, rated up to 50 amps and 3 poles, and only available with VDE Certification when rated to a protected pole (Circuit Code B, C, D or H). For 32 to 50 amps, select Circuit Code 630. For 35 - 50 amps, select Current Code 650. For 55-70 amps, select Circuit Code 670. For 75-100 amps, select Circuit Code 810.

Circuit Codes D, E, F, G & H available with Terminal Codes 1, 2, 4 & 5 only. Circuit Codes D, F, H & K available up to 50 amps maximum Current Rating.

Consult factory for available Dual Coil options, as special catalog number is required. Dual Coil Voltage Coils require 50% minimum power to trip instantaneously and are rated for intermittently duty only.

Auxiliary Switch available with Series Trip and Switch Only circuits. On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole Auxiliary switch codes 2 & 4 are VDE approved.

Voltage coils not rated for continuous duty. Available only with delay codes 10 and 20.

Available with Circuit Codes B & D only, and up to 50 amps maximum.

Current ratings 60-70 are available up to four poles maximum. Current ratings 71 - 100 are available up to two poles maximum.

Terminal Codes 7, 8 & C are not VDE approved.

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Released “OFF SIDE” available with actuator codes 12, 3, 8. Legends on rocker are available in wire stamping.
1 SERIES

2 ACTUATOR

Two Color Visi-Rocker
1 Indicate OFF, vertical leg
2 Indicate OFF, horizontal leg
Single color
3 Vertical leg
4 Horizontal leg
Push-To-Reset, Visi-Rocker
5 Indicate OFF, vertical leg
6 Indicate OFF, horizontal leg
Push-To-Reset, Single color
7 Vertical leg
8 Horizontal leg

3 POLES

1 One
2 Two
3 Three

4 CIRCUIT

B Series Trip (current)

5 AUXILIARY/ALARM SWITCH

0 without Aux Switch
1 S.P.D.T., 0.110 Q.C. Terminal
2 S.P.D.T., 0.110 Q.C. Terminal (Gold Contacts)

6 FREQUENCY & DELAY

11 DC Ultra Short
12 DC Short
14 DC Medium
16 DC Long
21 50/60Hz Ultra Short
22 50/60Hz Short
24 50/60Hz Medium
26 50/60Hz Long
30 50/60Hz Ultra Long
41 50/60Hz Medium, Hi-Inrush
44 50/60Hz Medium, Hi-Inrush
46 50/60Hz Medium, Hi-Inrush
52 DC Short, Hi-Inrush
54 DC Medium, Hi-Inrush
56 DC Long, Hi-Inrush

7 CURRENT RATING (AMPERES)

<table>
<thead>
<tr>
<th>Code</th>
<th>Ampere</th>
</tr>
</thead>
<tbody>
<tr>
<td>210</td>
<td>0.100</td>
</tr>
<tr>
<td>215</td>
<td>0.150</td>
</tr>
<tr>
<td>220</td>
<td>0.200</td>
</tr>
<tr>
<td>225</td>
<td>0.250</td>
</tr>
<tr>
<td>230</td>
<td>0.300</td>
</tr>
<tr>
<td>235</td>
<td>0.350</td>
</tr>
<tr>
<td>240</td>
<td>0.400</td>
</tr>
<tr>
<td>245</td>
<td>0.450</td>
</tr>
<tr>
<td>250</td>
<td>0.500</td>
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<tr>
<td>255</td>
<td>0.550</td>
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<tr>
<td>260</td>
<td>0.600</td>
</tr>
<tr>
<td>265</td>
<td>0.650</td>
</tr>
<tr>
<td>270</td>
<td>0.700</td>
</tr>
<tr>
<td>275</td>
<td>0.750</td>
</tr>
<tr>
<td>280</td>
<td>0.800</td>
</tr>
<tr>
<td>285</td>
<td>0.850</td>
</tr>
<tr>
<td>290</td>
<td>0.900</td>
</tr>
</tbody>
</table>

7 TERMINAL

1 Stud 10-32, threaded .625 long
2 Stud M6, threaded 17mm long
3 Screw 10-32 w/saddle & washer clamps
4 Screw M5 x 0.8, threaded .625 long
5 Screw M5 x 0.8 w/saddle & washer clamps

8 TERMINAL

4 5/16” Clip Terminal
5 5/16” Clip Terminal

9 ACTUATOR COLOR & LEGEND

Color: ON-OFF Single Color Orange
Black
White
Red
Green
Blue
Yellow
Gray
Orange

10 MOUNTING/BARRIERS

A Standard Rocker Bezel
B Recessed Off Rocker
C Standard Rocker Bezel
D Recessed Off Rocker

11 MAXIMUM APPLICATION RATING

A 65 DC
B 125 DC
C 120/240 AC
D 240 AC
E 277 AC
F 120 AC
G 90 DC

12 AGENCY APPROVAL

A without approvals
B UL Listed & CSA Certified
C UL Listed & CSA Certified & TUV Certified

Notes:
1 Push-to-reset actuators have OFF portion of rocker shrouded.
2 Multi-pole breakers have all breakers identical except when specifying Aux. switch and/or, or mixed poles, and have one pole per breaker.
3 On multi-pole breakers, one aux. switch is supplied, mounted in the extreme right pole.
4 Available up to 50 amps maximum.
5 Current ratings 71 - 100 with VDE approvals are available up to two poles maximum.
6 Terminal Code 1 available to 60 amps maximum.
7 Terminal Codes 2, 4, 5, & 6 available to 50 amps maximum.
8 Terminal Codes 3, 6, & 9 available to 100 amps maximum.
9 Terminal Codes 8, 9 & C are not VDE approved.
10 Color shown is visi and legend with remainder of rocker black.
11 Dual = ON-OFF/Off leg on actuator.
12 VDE and TUV approval requires Dual (I-O, ON-OFF) markings on rocker.
13 Legend on push-to-reset bezel/shroud is white when single color rocker is ordered. Legend on push-to-reset bezel/shroud matches visi-color of rocker with actuator codes 5 & 6.
14 Recessed “OFF-SIDE” available with actuator codes 1, 2, 3, & 4. Legends on rocker are available in ink stamping only.
15 Barriers supplied on multi-pole units only.
16 2 & 3 pole circuit breakers required for 120/240 AC rating.
### C-Series Handle – Circuit & Terminal Diagrams

<table>
<thead>
<tr>
<th>TERMINAL BADGE</th>
<th>CODE</th>
<th>TERMINAL DETAILS</th>
<th>25</th>
<th>50</th>
<th>100</th>
<th>200</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10-32 STUD</td>
<td>1</td>
<td>.723 [18.36]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M5 STUD</td>
<td>2</td>
<td>.688 [17.46]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>#10-16 STUD</td>
<td>3</td>
<td>.720 [18.36]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M6 STUD</td>
<td>4</td>
<td>.675 [17.15]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>#10-32 SCREW</td>
<td>5</td>
<td>.656 [16.70]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M5 SCREW</td>
<td>6</td>
<td>.615 [15.65]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:** TOLERANCE ON STUD LENGTHS IS ±.020 [0.51] UNLESS OTHERWISE SPECIFIED.

### AUXILIARY / ALARM SWITCH TERMINAL DETAIL

- 312 [7.92]
- .051 [1.29]
- .110 [2.80]
- .287 [7.29]
- .187 [4.76]

### SOLDER TYPE

- 070 [1.80]

### TAB (Q.C.) .187

### TAB (Q.C.) .110

### TERMINAL HARDWARE

<table>
<thead>
<tr>
<th>TERMINAL DESC/TYPE</th>
<th>CODE</th>
<th>AGENCY APPROVAL</th>
<th>AMPERE RATING</th>
<th>HARDWARE SUPPLIED</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10-32 STUD</td>
<td>1</td>
<td>ALL</td>
<td>30 + 50</td>
<td>LOCK WASHER - FLAT WASHER - NUT</td>
</tr>
<tr>
<td>M5 STUD</td>
<td>4</td>
<td>ALL</td>
<td>30 + 50</td>
<td>LOCK WASHER - FLAT WASHER - NUT</td>
</tr>
<tr>
<td>#10-16 STUD</td>
<td>3</td>
<td>ALL</td>
<td>30 + 50</td>
<td>LOCK WASHER - FLAT WASHER - NUT</td>
</tr>
<tr>
<td>M6 STUD</td>
<td>6</td>
<td>ALL</td>
<td>81 + 100</td>
<td>LOCK WASHER - NUT - (2) FLAT WASHER - NUT</td>
</tr>
<tr>
<td>#10-32 SCREW</td>
<td>2 &amp; 5</td>
<td>UL RECOGNIZED</td>
<td>30 + 50</td>
<td>SADDLE CLAMP - FLAT WASHER - SCREW</td>
</tr>
<tr>
<td>M5 SCREW</td>
<td>7</td>
<td>UL SET</td>
<td>30 + 50</td>
<td>SADDLE CLAMP - FLAT WASHER - SCREW</td>
</tr>
<tr>
<td>#10-16 SCREW</td>
<td>8</td>
<td>UL SET</td>
<td>30 + 50</td>
<td>SADDLE CLAMP - FLAT WASHER - SCREW</td>
</tr>
</tbody>
</table>

* THE SADDLE CLAMP IS FOR DIRECT WIRE CONNECTION USE. DISCARD SADDLE CLAMP F WIRE TERMINAL LUG IS USED.

### Notes:
1. All dimensions are in inches [millimeters].
2. Tolerance ±.020 [0.51] unless otherwise specified.
3. Available on Series Trip and Switch Only Circuits when called for on multi-pole units. Only one aux. switch is normally supplied, as viewed in multi-pole identification scheme.
**Notes:**

1. All dimensions are in inches [millimeters].
3. Schematic shown represents current trip circuits.
4. Available only as special catalog number.
Notes:
1. All dimensions are in inches [millimeters].
2. Tolerance = $\pm 0.020$ [.51] unless otherwise specified.
Notes:
1. All dimensions are in inches [millimeters].
2. Tolerance ±0.020 [0.51] unless otherwise specified.
C-Series Parallel Pole – Form & Fit Drawings

PARALLEL POLE (CA2-P)

PARALLEL POLE (CA3-P)

TERMINAL DETAILS

<table>
<thead>
<tr>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 All dimensions are in inches (millimeters).</td>
</tr>
<tr>
<td>2 Tolerance ±.020 [.51] unless otherwise specified.</td>
</tr>
</tbody>
</table>

CIRCUIT BREAKER PROFILE

CIRCUIT SCHEMATIC (CALF SHOWN)

CIRCUIT SYMBOL

PANEL CUTOUT DETAIL

TOLERANCES ±.020 [.51]
Notes:
1. All dimensions are in inches [millimeters].
2. Tolerance ±0.020 [0.51] unless otherwise specified.
### C-Series Rocker – Circuit & Terminal Diagrams

**Circuit Breaker Profile**

<table>
<thead>
<tr>
<th>Series Trip (7 Terms)</th>
<th>Circuit Schematic</th>
<th>ABC Code</th>
<th>Switch Trip</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Line</strong></td>
<td><strong>Load</strong></td>
<td><strong>A</strong></td>
<td><strong>0</strong></td>
</tr>
<tr>
<td><strong>Main Term/ (See Table A)</strong></td>
<td><strong>Load (Last)</strong></td>
<td><strong>B</strong></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>

**Notes:**

1. All dimensions are in inches [millimeters].
3. Schematic shown represents current trip circuit.
Notes:
1. Dimensions apply to all variations shown. Notice that circuit breaker line and load terminal orientation on indicate OFF is opposite of indicate ON.
2. For pole orientation with horizontal legend, rotate front view clockwise 90°.
3. All dimensions are in inches [millimeters].
C-Series Flat Rocker – Form & Fit Drawings

INDICATE "OFF" & SINGLE COLOR

C11

Screw type terminals
In series trip circuit configuration shown.
For other configurations see circuit & terminal diagrams.

LINE
2,514 [63.85] Screw type
1,880 [47.00] LINE
1,245 [31.62] Load
200 [5.08] Line
1,125 [28.60] Rocker adapter bracket width
660 [16.76] MAX

C12

Load
2,060 [52.17] Load
1,660 [42.16] Typ.
750 [19.05] Typ.
1,155 [29.24] MAX

Panel cut-out detail
200 [5.08]
1,160 [29.92] 2 holes

C13

Load
2,245 [57.03] MAX

Rear view of indicate "OFF" series trip w/ aux switch circuit configuration.

Notes:
1 For pole orientation with horizontal legend, rotate front view clockwise 90°.
2 All dimensions are in inches [millimeters].
3 Tolerance ±.020 [.51] unless otherwise specified.
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