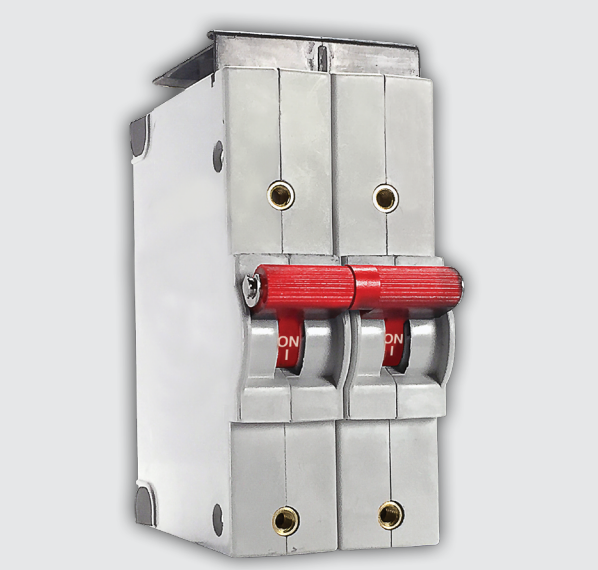
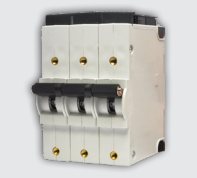
# CX-Series

## HYDRAULIC-MAGNETIC CIRCUIT BREAKER

The CX-Series circuit breaker features a unique and innovative arc-quenching configuration that allows the breaker to safely handle high amperage and high DC voltage applications in a compact package. By using a patent pending magnetic flux boosting terminal configuration, a strong magnetic field is created thus motivating the arc into an enhanced arc chamber improving the breaker's overall performance and reliability. The permanent magnets located at the entrance of the arc chamber combined with the upper and lower arc runner increase the magnetic blow out force and aid in motivating the arc off of the contacts and into the arc chamber. An enhanced arc chamber features arc splitter retainers with integrated pressurizing walls, which facilitates heat transfer from the arc thereby providing additional cooling and quick transition into the magnetically induced splitter plates. In turn, the twelve (12) splitter plates attract, segment and cool the arc for full extinction Combined, these innovative features make the CX-Series breaker the best in class, providing stable performance even in the most demanding applications.





### Resources:

*Configure a Complete Part*

**Download CAD & Sales Drawing ›**

*Watch Product Video*

### Product Highlights:

- UL 489 & UL 489B Listed
- TUV Certified IEC/EN 60947-2
- Temperature stable hydraulic-magnetic overcurrent sensing technology
- Optional relay trip circuit permitting remote operator system shut down
- Perfect fit for 380VDC Applications

### High DC Voltage Applications:

- Datacom, PDU and UPS Systems
- Power Supplies and Convertors
- Mission Critical Equipment
- Renewable Energy Systems
- Motor Controllers
- Charging Stations
- Smart Grids

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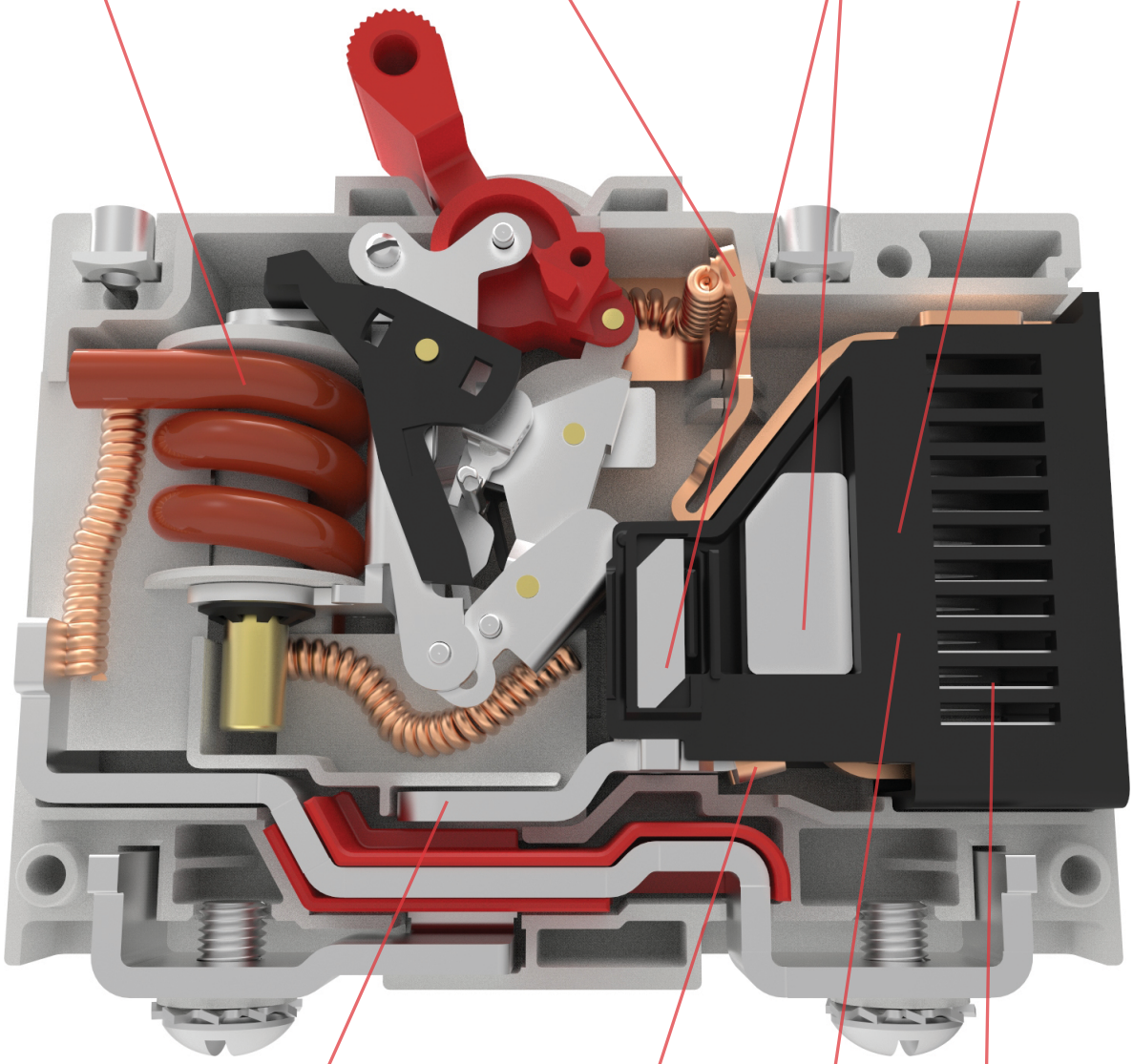
# CX-Series
## DESIGN FEATURES

**HYDRAULIC/MAGNETIC SENSING COIL**

**UPPER ARC RUNNER**
Aids in motivating arc off of movable contact and into arc chamber

**MAGNETS**

**ARC SPLITTER RETAINER**
with integrated pressurizing walls



**PATENT PENDING MAGNETIC FLUX BOOSTING TERMINAL CONFIGURATION**
Design enhances motivation of arc into arc chamber

**LOWER ARC RUNNER**
Aids in motivating arc off of stationary contact and into arc chamber

**LARGE ARC GAP**
To generate high arc voltages

**(12) ARC DEIONIZING SPLITTER PLATES**

## Electrical Tables

**Table A:** Lists UL Listed (UL489) configuration and performance capabilities as a Molded Case Circuit Breaker

| CX SERIES TABLE A : UL489 LISTED BRANCH CIRCUIT BREAKERS | | | | | |
|---|---|---|---|---|---|
| CIRCUIT CONFIGURATION | VOLTAGE | | MAX CURRENT RATING AMPS | INTERRUPTING CAPACITY (AMPS) | NUMBER OF POLES |
| | MAX. RATING | FREQUENCY | | | |
| SERIES | 250 | D.C. | 15 | 5,000 | 1 |
| | 250 / 500 | D.C. | 15 | 10,000 | 2 |
| | 410 / 205 | D.C. | 50 | 10,000 | 2 |

**Table B:** Lists UL Recognized configurations and performance capabilities as a Component Supplementary Protector

| CX SERIES TABLE B : UL1077 COMPONENT SUPPLEMENTARY PROTECTOR | | | | | | |
|---|---|---|---|---|---|---|
| CIRCUIT CONFIGURATION | VOLTAGE | | MAX CURRENT RATING AMPS | INTERRUPTING CAPACITY (AMPS) | NUMBER OF POLES | APPLICATION CODE |
| | MAX. RATING | FREQUENCY | | | | |
| SERIES | 300 | D.C. | 1 - 75 | 5,000 | 1 | TC1, OL0, U3 |
| | 300 | D.C. | 76 - 125 | 3,000 | 1 | TC1, OL0, U3 |
| | 440 | D.C. | 1 -30 | 10,000 | 2 | TC1, OL0, U3 |
| | 440 | D.C. | 31 - 63 | 5,000 | 2 | TC1, OL0, U3 |
| | 600 | D.C. | 1 - 75 | 5,000 | 2 | TC1, OL0, U3 |
| | 600 | D.C. | 76 - 115 | 3,000 | 2 | TC1, OL0, U3 |
| SWITCH ONLY[1] | 600 | D.C. | 1 - 115 | ---- | 2 or 3 | --- |

Notes:
1 Requires inclusion of a relay trip voltage coil

**Table C:** Lists UL Listed (UL489B) configuration and performance capabilities as a Molded Case Switch

| CX SERIES TABLE C : UL489B LISTED PHOTOVATIC MOLDED CASE SWITCH | | | | | | |
|---|---|---|---|---|---|---|
| CIRCUIT CONFIGURATION | VOLTAGE | | | CURRENT RATING (AMPS) | INTERRUPTING RATING (AMPS) | CONSTRUCTION NOTES |
| | MAX RATING | FREQUENCY | POLES | | | |
| SERIES | 600 | DC | 2[1] | 50 - 100 | 600 | May have a third pole that is a voltage trip pole |
| | 600 | DC | 4[2] | 110 - 175 | 600 | May have a fifth pole that is a voltage trip pole |

Notes:
1 Two poles in series.
2 Two poles in series in parallel with 2 poles in series.

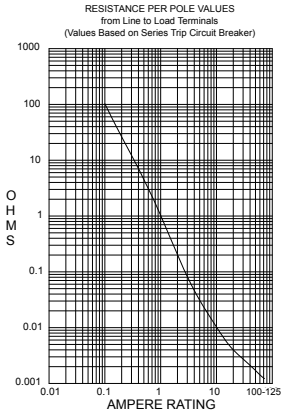
**Table D:** TUV Certified Configuration to IEC / EN 60947-2. Low Voltage Switch gear and Control gear - Circuit Breakers

| CX-SERIES TABLE D : TUV IEC/EN 60947-2 LOW VOLTAGE SWITCH GEAR & CONTROL GEAR / CIRCUIT BREAKER | | | | | |
|---|---|---|---|---|---|
| CIRCUIT CONFIGURATION | VOLTAGE | | | CURRENT RATING (AMPS) | INTERRUPTING CAPACITY |
| | MAX. RATING | FREQUENCY | POLES | | ICS / ICU (AMPS) |
| SERIES | 440 | DC | 2 | 1-63 | 4,000 |

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

## Electrical

| | |
|---|---|
| Maximum Voltage | 600 VDC |
| Overload | 50 operations at 600% of rated current for UL489, and at 150% of rated current for UL1077. |




| CURRENT (AMPS) | TOLERANCE (%) |
|---|---|
| 0.10 - 5.0 | 15 |
| 5.1 - 20.0 | 25 |
| 20.1 - 50.0 | 35 |

## Physical

| | |
|---|---|
| Number of Poles | 1- 2 poles, + Auxiliary Switch Pole. |
| Termination | 10-32 or M5 Screw Terminals<br>1/4-20 or M6 Threaded Stud |
| Terminals | |
| Termination Barrier | Standard with multi-pole constructions |
| Mounting | Threaded insert: #6-32 UNC-2B, or M3X0.5-6H B ISO (2 per pole) |
| Actuator | Handle, 1 per pole. |
| Internal Circuit Config. | Series Trip |
| Materials | Housing - Glass filled Polyester<br>Handle - Glass filled Polyester<br>Line/Load Terminals - Copper Alloy. |
| | ~150 Grams (~5.3 Ounces). |
| Weight | ~150 Grams (~5.3 Ounces). |
| Standard Color | Housing - Gray.<br>Handle - White, Black, Red, Green, Blue, Yellow, Gray, |

## Mechanical

| | |
|---|---|
| Endurance | Max 10,000 ON-OFF operations @ 6 per minute; 6000 with rated current & voltage, and 4,000 cycles mechanical. |
| Trip Free | Trips on overload even when actuator is forcibly held in the “On” position. |
| Trip Indication | The operating handle moves positively to the “Off” position when an overload causes the breaker to trip. |

## Environmental

| | |
|---|---|
| Shock | Withstands 100 Gs, 6ms saw tooth while carrying rated current per MILPRF-55629 and MIL-STD-202G, Method 213G, Test Condition “I”. Instantaneous and ultra short curves tested at 90% of rated current |
| Vibration | Withstands 0.060” excursion from 10-55 Hz & 10 Gs 55-500 Hz, at rated current per MIL-PRF-55629 and MILSTD-202G, Method 204D, Test Cond. A. Instantaneous & ultrashort curves tested at 90% of rated current. |
| Moisture Resistance | MIL-PRF-55629 and MIL-STD-202G, Method 106G, i.e., Ten 24-hour cycles at +25°C to +65°C, 80-98% RH. |
| Salt Spray | Method 101, Condition A (90-95% RH at 5% NaCl Solution, 96 hrs). |
| Thermal Shock | MIL-PRF-55629 and MIL-STD-202G, Method 107G, Condition A (5-cycles at -55°C to +25°C to +85°C to +25°C). |
| Operating Temperature | -40°C to +85°C. |

| C | X | 1 | – | B | 0 | – | 14 | – | 615 | – | 2 | 2 | A | – | 12 | G |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *1 Series* | *2 Actuator* | *3 Poles* | | *4 Circuit* | *5 Aux/Alarm Switch* | | *6 Frequency & Delay* | | *7 Current Rating* | | *8 Terminal* | *9 Actuator Color & Legend* | *10 Mounting Inserts* | | *11 Rating* | *12 Agency Approval* |

### 1 SERIES
**C**

### 2 ACTUATOR
**X** Handle, one per pole

### 3 POLES
**1** One
**2** Two

### 4 CIRCUIT
**B** Series Trip (current)

### 5 AUXILIARY/ALARM SWITCH
**0** Without Aux Switch

### 6 FREQUENCY & DELAY
**11** DC Ultra Short
**12** DC Short
**14** DC Medium
**16** DC Long

### 7 CURRENT RATING (AMPERES)

| *CODE* | *AMPERES* | | | | | | |
|---|---|---|---|---|---|---|---|
| **220** | 0.20 | **295** | 0.95 | **460** | 6.00 | **614** | 14.00 |
| **225** | 0.25 | **410** | 1.00 | **465** | 6.50 | **615** | 15.00 |
| **230** | 0.30 | **512** | 1.25 | **470** | 7.00 | **616** | 16.00 |
| **235** | 0.35 | **415** | 1.50 | **475** | 7.50 | **617** | 17.00 |
| **240** | 0.40 | **517** | 1.75 | **480** | 8.00 | **618** | 18.00 |
| **245** | 0.45 | **420** | 2.00 | **485** | 8.50 | **620** | 20.00 |
| **250** | 0.50 | **522** | 2.25 | **490** | 9.00 | **622** | 22.00 |
| **255** | 0.55 | **425** | 2.50 | **495** | 9.50 | **624** | 24.00 |
| **260** | 0.60 | **527** | 2.75 | **610** | 10.00 | **625** | 25.00 |
| **265** | 0.65 | **430** | 3.00 | **710** | 10.50 | **630** | 30.00 |
| **270** | 0.70 | **435** | 3.50 | **611** | 11.00 | **635** | 35.00 |
| **275** | 0.75 | **440** | 4.00 | **711** | 11.50 | **640** | 40.00 |
| **280** | 0.80 | **445** | 4.50 | **612** | 12.00 | **645** | 45.00 |
| **285** | 0.85 | **450** | 5.00 | **712** | 12.50 | **650** | 50.00 |
| **290** | 0.90 | **455** | 5.50 | **613** | 13.00 | | |

### 8 TERMINAL
**2** Screw Terminal, 10-32
**3** Stud, 1/4-20
**5** Screw Terminal, M5
**6** Stud, M6

### 9 ACTUATOR COLOR & LEGEND

| Actuator Color | I-O | ON-OFF | Dual | Legend Color |
|---|---|---|---|---|
| White | **A** | **B** | **1** | Black |
| Black | **C** | **D** | **2** | White |
| Red | **F** | **G** | **3** | White |
| Green | **H** | **J** | **4** | White |
| Blue | **K** | **L** | **5** | White |
| Yellow | **M** | **N** | **6** | Black |
| Gray | **P** | **Q** | **7** | Black |
| Orange | **R** | **S** | **8** | Black |

### 10 MOUNTING INSERTS
**A** 6-32 Thread
**B** M3 Thread

### 11 MAX. APPLICATION RATING
**12** 250 VDC
**13** 250/500 VDC [1]
**15** 205/410 VDC

### 12 AGENCY APPROVAL
**A** Without Approvals
**G** UL 489 Listed
**S** UL 489 Listed, TUV to IEC60947-2 [1]

Notes:
1 Only Available with 250/500 VDC up to 15 amps.

| C | X | 2 | – | S | 0 | – | 03 | – | 810 | – | 3 | 2 | A | – | 06 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *1 Series* | *2 Actuator* | *3 Poles* | | *4 Circuit* | *5 Relay Trip* | | *6 Frequency & Delay* | | *7 Current Rating* | | *8 Terminal* | *9 Actuator Color & Legend* | *10 Mounting Inserts* | | *11 Rating* | *12 Agency Approval* |

### 1 SERIES
**C**

### 2 ACTUATOR
**X** Handle, one per pole

### 3 POLES [1,2]
**2** Two
**3** Three
**4** Four
**5** Five

### 4 CIRCUIT
**S** Switch Only

### 5 RELAY TRIP VOLTAGE COIL RATING [1,2]
**0** Without Relay Trip Voltage Coil
**A** 12 VDC
**B** 24 VDC
**C** 32 VDC
**D** 48 VDC

### 6 FREQUENCY & DELAY
**03** DC Switch Only

### 7 CURRENT RATING (AMPERES) [1,3]
*2-Pole Section*
**810** 50A - 100A

*4-Pole Section*
**917** 110A - 175A

### 8 TERMINAL [4,5]
**3** Stud, 1/4-20
**6** Stud, M6
**A** Stud, 1/4-20, with 10-32 Screw Terminals on Voltage Pole
**B** Stud, M6, with M5 Screw Terminals on Voltage Pole

### 9 HANDLE COLOR & LEGEND

| Actuator Color | I-O | ON-OFF | Dual | Legend Color |
|---|---|---|---|---|
| White | **A** | **B** | **1** | Black |
| Black | **C** | **D** | **2** | White |
| Red | **F** | **G** | **3** | White |
| Green | **H** | **J** | **4** | White |
| Blue | **K** | **L** | **5** | White |
| Yellow | **M** | **N** | **6** | Black |
| Gray | **P** | **Q** | **7** | Black |
| Orange | **R** | **S** | **8** | Black |

### 10 MOUNTING INSERTS
**A** 6-32 Thread **B** M3 Thread

### 11 MAX. APPLICATION RATING
**06** 600VDC

### 12 AGENCY APPROVAL
**A** Without Approvals
**14** UL489B Listed

Notes:
1 2 Pole Unit is required for ratings between 50A - 100A.
4 Pole Unit is required for ratings between 110A - 175A.
2 A Relay Trip Voltage Coil Pole may be added to either the 2 or 4 Pole construction. The addition of this extra pole dictates a change in the designation for the number of poles in selection 3.
3 For Current Ratings between 50A - 100A select current code 810 (100A).
For Current Ratings between 101A - 175A select current code 917 (175A).
4 Voltage Pole must have screw terminals.
Switch Pole must have stud terminals.
5 On 3 Pole Unit, Voltage Pole to be located at P1 as standard.
On 5 Pole Unit, Voltage Pole to be located at P3 as standard.

| C | X | 1 | – | B | 0 | – | 14 | – | 620 | – | 2 | 2 | A | – | 10 | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 Series | 2 Actuator | 3 Poles | | 4 Circuit | 5 Aux/Alarm Switch | | 6 Frequency & Delay | | 7 Current Rating | | 8 Terminal | 9 Actuator Color & Legend | 10 Mounting Inserts | | 11 Rating | 12 Agency Approval |

### 1 SERIES
**C**

### 2 ACTUATOR
**X** Handle, one per pole

### 3 POLES [7]
**1** One
**2** Two
**3** Three
**4** Four [10]

### 4 CIRCUIT
**A** Switch Only (no coil) [1, 9]
**B** Series Trip (current)
**G** Relay Trip (voltage) [1, 2, 3, 9]

### 5 AUXILIARY SWITCH
**0** Without Aux Switch

### 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

### 7 CURRENT RATING (AMPERES) [6]

| CODE | AMPERES | | | | | | |
|---|---|---|---|---|---|---|---|
| **220** | 0.200 | **415** | 1.500 | **490** | 9.000 | **630** | 30.000 |
| **225** | 0.250 | **517** | 1.750 | **495** | 9.500 | **635** | 35.000 |
| **230** | 0.300 | **420** | 2.000 | **610** | 10.000 | **640** | 40.000 |
| **235** | 0.350 | **522** | 2.250 | **710** | 10.500 | **650** | 50.000 |
| **240** | 0.400 | **425** | 2.500 | **611** | 11.000 | **660** | 60.000 |
| **245** | 0.450 | **527** | 2.750 | **711** | 11.500 | **665** | 65.000 |
| **250** | 0.500 | **430** | 3.000 | **612** | 12.000 | **670** | 70.000 |
| **255** | 0.550 | **435** | 3.500 | **712** | 12.500 | **675** | 75.000 |
| **260** | 0.600 | **440** | 4.000 | **613** | 13.000 | **680** | 80.000 |
| **265** | 0.650 | **445** | 4.500 | **614** | 14.000 | **685** | 85.000 |
| **270** | 0.700 | **450** | 5.000 | **615** | 15.000 | **690** | 90.000 |
| **275** | 0.750 | **455** | 5.500 | **616** | 16.000 | **695** | 95.000 |
| **280** | 0.800 | **460** | 6.000 | **617** | 17.000 | **810** | 100.000 |
| **285** | 0.850 | **465** | 6.500 | **618** | 18.000 | **911** | 115.000 |
| **290** | 0.900 | **470** | 7.000 | **620** | 20.000 | **912** | 125.000 |
| **295** | 0.950 | **475** | 7.500 | **622** | 22.000 | | |
| **410** | 1.000 | **480** | 8.000 | **624** | 24.000 | | |
| **512** | 1.250 | **485** | 8.500 | **625** | 25.000 | | |

### 8 TERMINAL [8]
**2** Screw, 10-32
**3** Stud, 1/4-20
**5** Screw, M5
**6** Stud, M6

### 9 ACTUATOR COLOR & LEGEND

| Actuator Color | I-O | ON-OFF | Dual | Legend Color |
|---|---|---|---|---|
| White | **A** | **B** | **1** | Black |
| Black | **C** | **D** | **2** | White |
| Red | **F** | **G** | **3** | White |
| Green | **H** | **J** | **4** | White |
| Blue | **K** | **L** | **5** | White |
| Yellow | **M** | **N** | **6** | Black |
| Gray | **P** | **Q** | **7** | Black |
| Orange | **R** | **S** | **8** | Black |

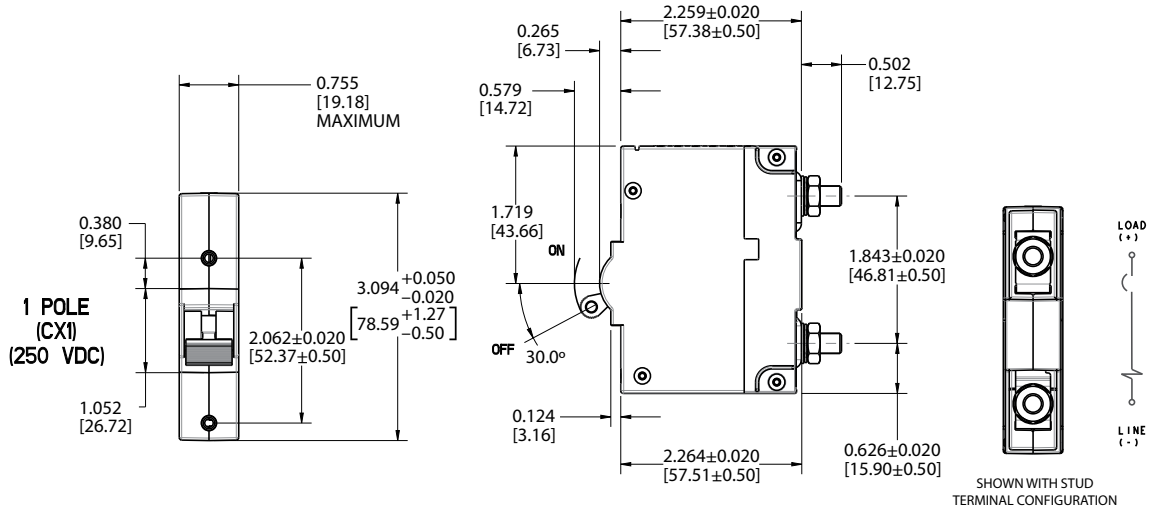
### 10 MOUNTING INSERTS
**A** 6-32 Thread
**B** M3 Thread

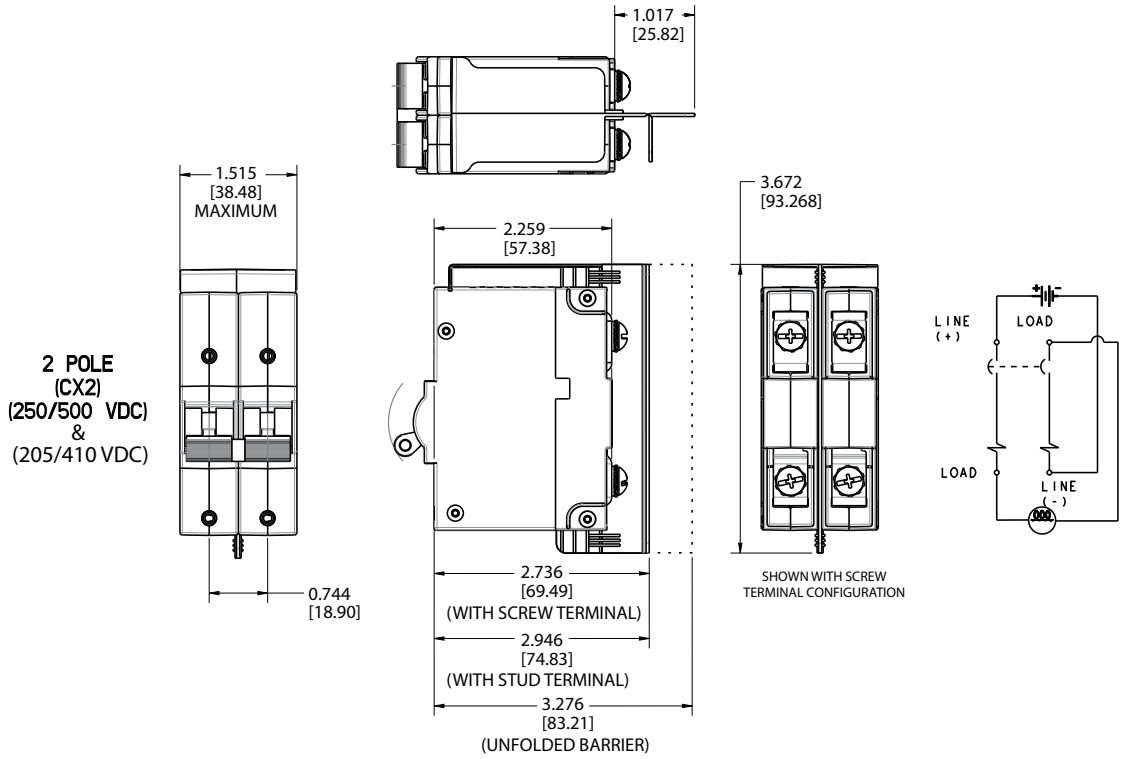
### 11 MAX. APPLICATION RATING
**10** 300VDC
**11** 440 VDC without factory installed terminal bus [4]
**14** 440VDC with factory installed terminal bus [4]
**06** 600VDC [5]
**18** 220/440VDC [11]

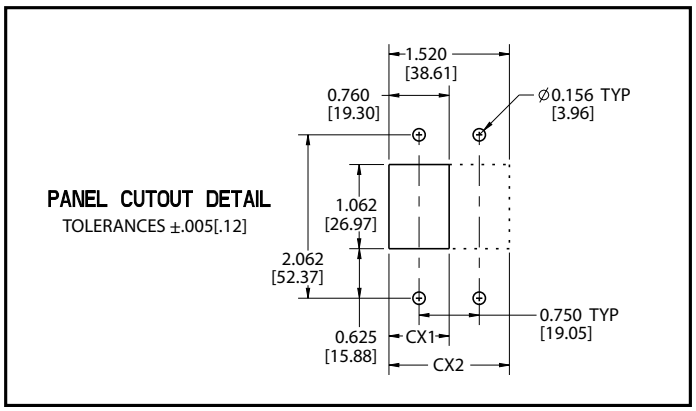
### 12 AGENCY APPROVAL
**A** Without Approvals
**C** UL 1077 Recognized
**W** UL 1077 Recognized & TUV Certified IEC/ EN 60947-2 [9]

Notes:
1 Only available when tied to a protected pole.
Requires special part number consult factory for details
2 Voltage trip circuit coil not rated for continuous duty - use instantaneous delay code 10
3 Contacts Rated for 20A @ 80 VDC
4 440 VDC Rating available in two different wiring configurations.
5 600 VDC only available with factory installed terminal bus.
6 Single pole units available up to 125A, multi pole units limited to 115A Max.
7 3 Pole units must include one Auxiliary switch pole (circuit code A or G) - Requires Special Part Number. Unless breaker is rated 220/440 VDC (Voltage Code 18) in which case Circuit Code B is required.
8 Screw Terminals are limited to 50A max.
9 Agency approval code W only available with 440 VDC or 220/440 VDC rating and circuit code B.
10 4 Pole 600 VDC units only available up to 75A Max.
11 3 Pole 220/440 VDC units only available in one specific wiring configuration.
See dimensional specifications pages for more details

## Dimensional Specifications: in. [mm]



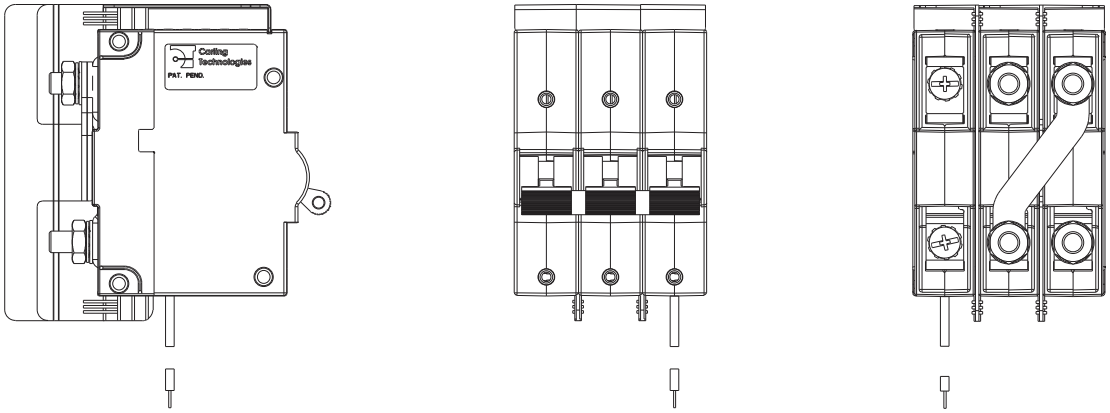



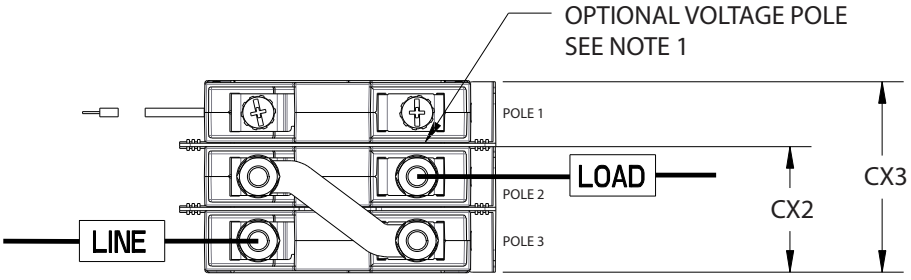




Notes:
1 All dimensions are in inches [millimeters].
2 Tolerance ±.020 [.51] unless otherwise specified.

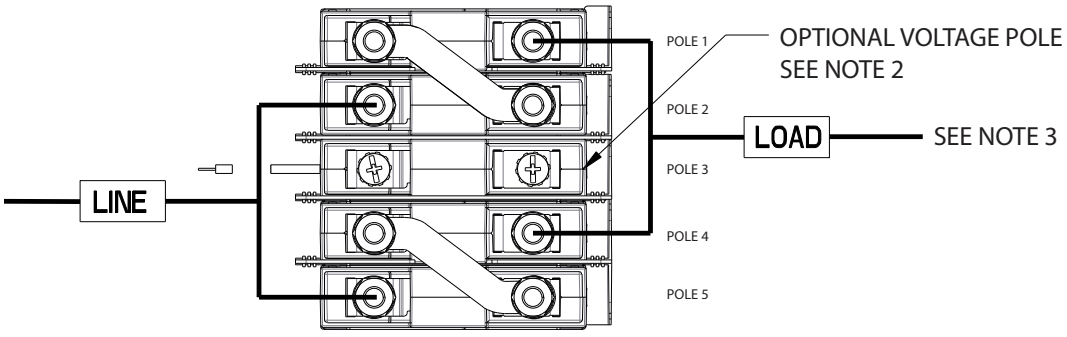
CLA-8119 Rev: C

## Dimensional Specifications: in. [mm]





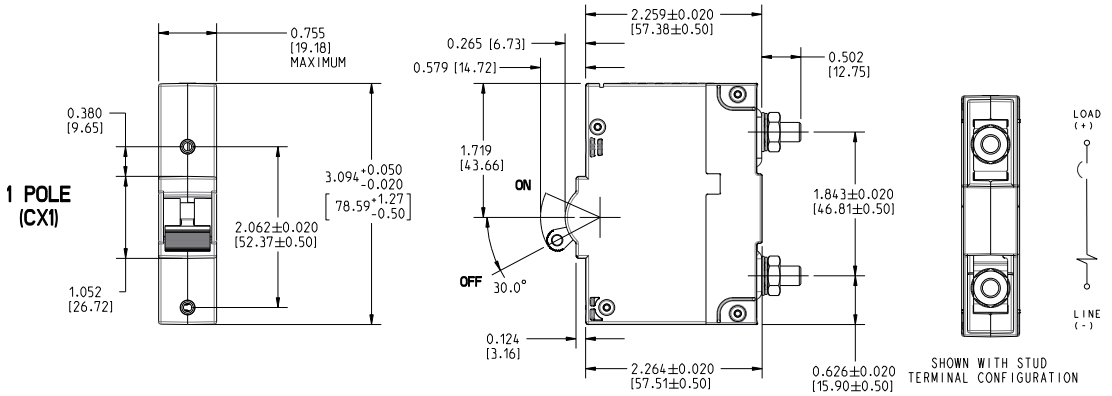

CX3 - 2 POLE SWITCH (CX2)SHOWN
WITH OPTIONAL VOLTAGE POLE
50A-100A DEVICE, 600VDC

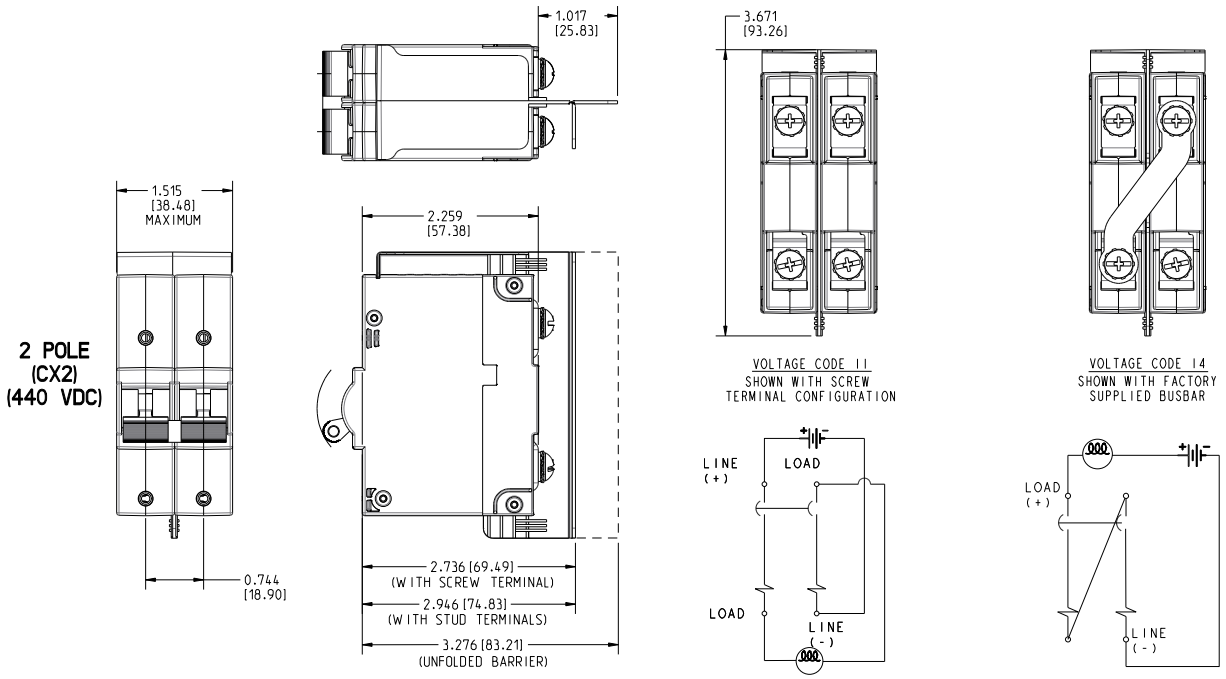


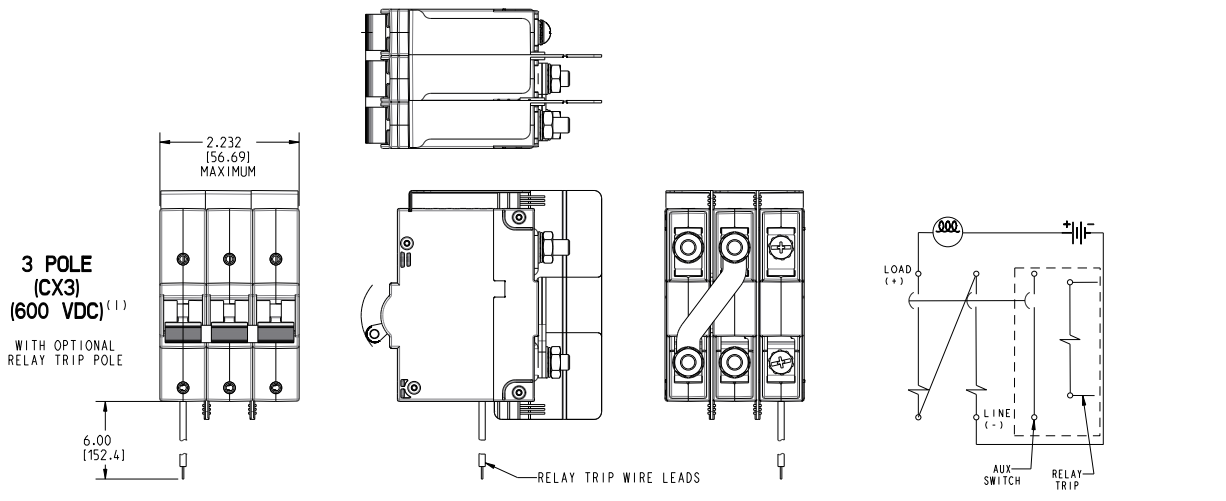

CX5 - 4 POLE SWITCH (CX4)SHOWN
WITH OPTIONAL VOLTAGE POLE
101A-175A DEVICE, 600VDC

Notes:
1 All dimensions are in inches [millimeters].
2 3 pole configuration supplied with voltage coil on pole 1. Optional location pole 3. Consult factory.
3 5 pole configuration supplied with voltage coil in center pole. (Pole 3)
4 Line & Load connections requires bus connection as shown.
Minimum cross selection .127 $in^2$ (81.94 $mm^2$)

# Dimensional Specifications: in. [mm]




(1) 600V RATING REQUIRES MINIMUM OF 2 PROTECTED POLES

Notes:
1 All dimensions are in inches [millimeters].
2 600V Rating requires minimum of 2 protected poles

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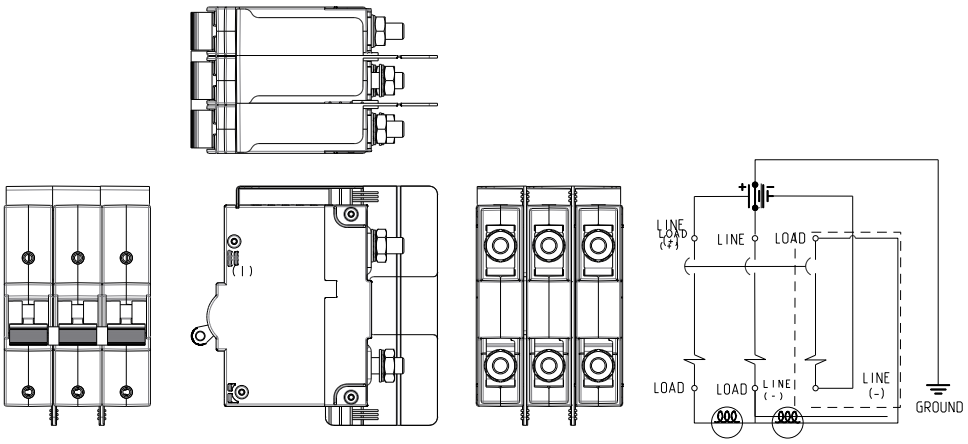
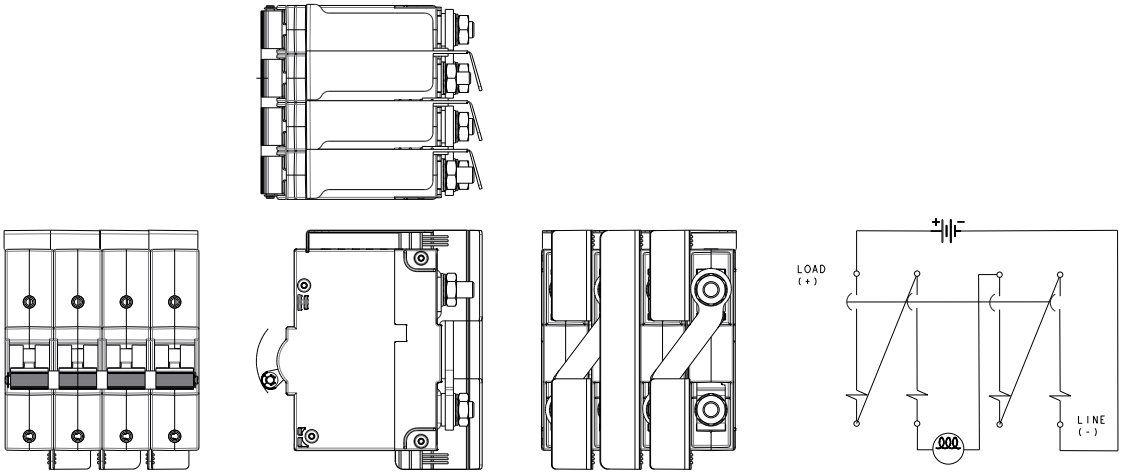
# Dimensional Specifications: in. [mm]

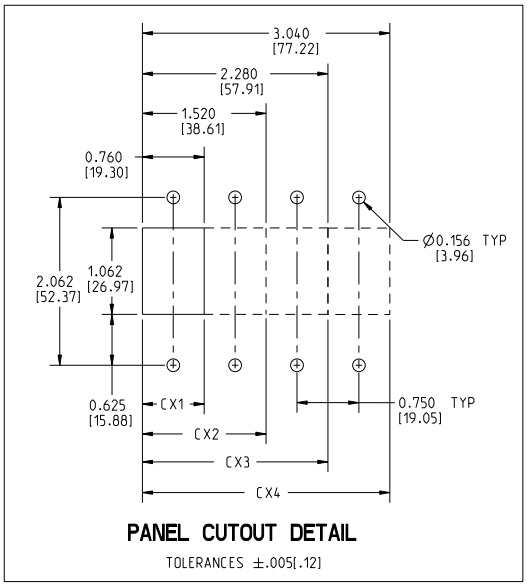
3 POLE
(CX3)
(220/440 VDC)




4 POLE (1,2)
(CX4)
(600 VDC)




(2) FOUR POLE UNIT AVAILABLE UP TO 75A MAXIMUM




Notes:
1 All dimensions are in inches [millimeters].
2 600V Rating requires minimum of 2 protected poles

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

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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.**

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*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

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