

# MINIATURE CIRCUIT BREAKERS

series  
**1100**

## SERIES 1100 PRODUCT PROFILE

c3controls offers a comprehensive line of **Miniature Circuit Breakers** designed and manufactured to meet the needs of the machine builder. We promise durable products at a price that gives you an edge, and we guarantee same-day shipping. Check out all the features of our Series 1100 Miniature Circuit Breakers below!



### DELIVERING SUPERIOR PRODUCT QUALITY AND MANUFACTURING EXCELLENCE

✓ <b>Proven</b>	Our Series 1100 Miniature Circuit Breakers are UL Listed and Recognized, and CE marked to meet global standards requirements and are compliant to the RoHS directives. 
✓ <b>Compact Design</b>	17.5mm wide per pole construction for reduced panel size, allowing for smaller control panels.
✓ <b>Easy to Install</b>	35mm DIN rail mounting for fast and easy installation and removal.
✓ <b>Visible Markings</b>	High visibility labels and markings; product part number, amperage, and UL & IEC short circuit ratings can be seen from the front and side of the device for easy identification.
✓ <b>Added Safety</b>	Line and load side IP20 guarded finger-safe terminals prevent accidental contact with live parts, while allowing ring, fork, and bare wire connections.
✓ <b>Limited Lifetime Warranty*</b>	Every product is backed by our lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.
✓ <b>Guaranteed Same-Day Shipping*</b>	Product availability reduces inventory, and improves cash-flow—saving you money. With c3controls any order for standard catalog items received by 6:00pm ET is guaranteed to ship same-day.
✓ <b>Advantage Pricing</b>	Our approach to product development, manufacturing, and focus on servicing the OEM and Electrical Equipment Builder reduces cost. The result—the best value in the industry.

\*See c3controls Terms & Conditions

### UNIQUE FEATURES

#### Full Range Circuit Protection

- Available in single pole, single pole + neutral, two pole, three pole, and three pole + neutral constructions and includes both thermal and magnetic trip elements for overload and short circuit protection.

#### Industry-Leading Short Circuit Rating

- 10kA @480Y/277V short circuit current rating on all multi-pole constructions – the highest interruption rating available in the market.

#### Trip-Free Design

- Holding the operating handle in the ON position will not prevent the miniature circuit breaker from tripping.

#### Easy Wiring

- Captive screws make it impossible to lose screws when wiring and our box lug design terminals will accept a wide-range of copper wire sizes. Line/load wiring is reversible for ease of use.

#### Visible Markings & Status Indication

- High visibility labels and markings can be seen from the front and side of the device for easy installation. Color-coded status window for clear visual of the breaker status.

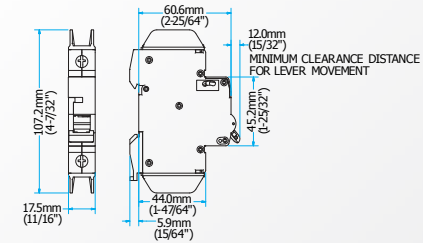
## SPECIFICATIONS

UL 489 BRANCH CIRCUIT BREAKERS						
	UNITS	1 POLE	1 + N POLE	2 POLE	3 POLE	3 + N POLE
<b>ELECTRICAL GENERAL</b>						
Rated Operating Current	A	0.5 ~ 63				
Operating Frequency	Hz	50/60				
Electrical Life	Ops.	6,000				
Line/Load Wiring		Suitable for reverse feed				
<b>ELECTRICAL UL/CSA APPLICATIONS</b>						
Conformity to Standards		cULus, UL 489, CSA C22.2 No. 5				
AC Rated Operating Voltage	V	277		480Y/277		
DC Rated Operating Voltage (wired in series)	V	48	96	—		
<b>MAXIMUM SHORT CIRCUIT RATING</b>						
@ 120 VAC	kA	10				
@ 240 VAC	kA	10				
@ 277 VAC	kA	10				
@ 480Y/277 VAC	kA	10				
@ 48 VDC	kA	10	10	10	—	—
@ 96 VDC (wired in series)	kA	—	—	10	—	—
<b>ELECTRICAL IEC APPLICATIONS</b>						
Conformity to Standards		IEC 60947-2, IEC 60898				
<b>ULTIMATE SHORT CIRCUIT BREAKING CAPACITY (Icu)</b>						
@ 240 VAC	kA	15				
@ 415 VAC	kA	15				
<b>RATED SERVICE SHORT CIRCUIT BREAKING CAPACITY (Ics)</b>						
@ 240 VAC	kA	10				
@ 415 VAC	kA	10				
<b>CONSTRUCTION - CONDUCTOR SIZE</b>						
UL/CSA	AWG	1 x #14 ~ #3				
Solid, Stranded, Fine Stranded	mm <sup>2</sup>	1 x 2.08 ~ 26.7				
<b>ROHS COMPLIANCE</b> For RoHS compliance documentation by product, refer to <a href="http://www.c3controls.com">www.c3controls.com</a> .						
UL 1077 SUPPLEMENTARY PROTECTORS						
	UNITS	1 POLE	1 + N POLE	2 POLE	3 POLE	3 + N POLE
<b>ELECTRICAL GENERAL</b>						
Rated Operating Current	A	0.5 ~ 63				
Operating Frequency	Hz	50/60				
Electrical Life	Ops.	6,000				
Line/Load Wiring		Suitable for reverse feed				
<b>ELECTRICAL UL/CSA APPLICATIONS</b>						
Conformity to Standards		cURus, UL 1077, CSA C22.2 No. 235				
AC Rated Operating Voltage	V	277		480Y/277		
DC Rated Operating Voltage (wired in series)	V	48	96	—		
<b>MAXIMUM SHORT CIRCUIT RATING</b>						
@ 120 VAC	kA	10				
@ 240 VAC	kA	10				
@ 277 VAC	kA	10				
@ 480Y/277 VAC	kA	10				
@ 48 VDC	kA	10	10	10	—	—
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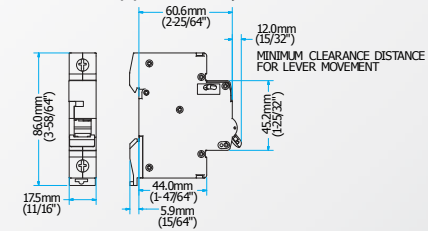
For complete ratings and detailed specifications refer to [www.c3controls.com](http://www.c3controls.com).

## DIMENSIONS

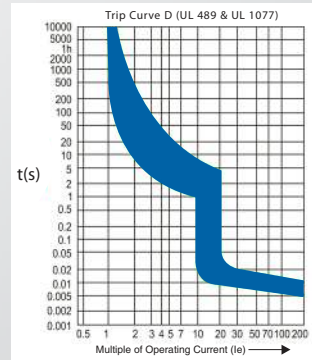
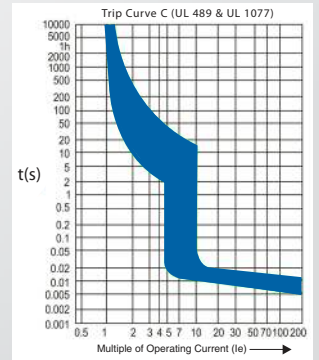
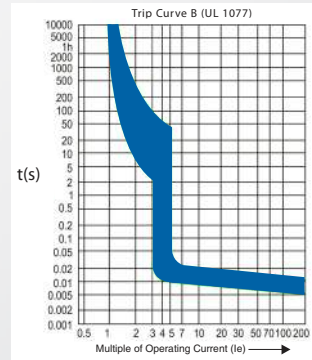
UL 489 Branch Circuit Breaker - 1 Pole



UL 1077 Supplementary Protector - 1 Pole



## TRIP CURVES



## CERTIFICATIONS

**Conformity to Standards:**

- UL 489
- UL 1077
- CSA C22.2 No. 5, No. 235
- IEC 60947-2, IEC 60898

**Certifications:**

- UL File#: E496118
- UL File#: E496119

CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)



Visit [www.c3controls.com](http://www.c3controls.com) to download product certifications.

