MINIATURE **CIRCUIT BREAKERS**

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

✓ **Proven**	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.
✓ **Compact Design**	17.5mm wide per pole construction for reduced panel size, allowing for smaller control panels.
✓ **Easy to Install**	35mm DIN rail mounting for fast and easy installation and removal.
✓ **Visible Markings**	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.
✓ **Added Safety**	Line and load side IP20 guarded finger-safe terminals prevent accidental contact with live parts, while allowing ring, fork, and bare wire connections.
✓ **Limited Lifetime Warranty***	Every product is backed by our lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.
✓ **Guaranteed Same-Day Shipping***	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.
✓ **Advantage Pricing**	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.

series 1100 MINIATURE **CIRCUIT BREAKERS**

SPECIFICATIONS

UL 489 BRANCH CIRCUIT BREAKERS						
	UNITS	1 POLE	1 + N POLE	2 POLE	3 POLE	3 + N POLE
ELECTRICAL GENERAL						
Rated Operating Current	A	0.5 ~ 63				
Operating Frequency	Hz	50/60				
Electrical Life	Ops.	6,000				
Line/Load Wiring		Suitable for reverse feed				
ELECTRICAL UL/CSA APPLICATIONS						
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	—	
MAXIMUM SHORT CIRCUIT RATING						
@ 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	—	—
ELECTRICAL IEC APPLICATIONS						
Conformity to Standards		IEC 60947-2, IEC 60898				
ULTIMATE SHORT CIRCUIT BREAKING CAPACITY (Icu)						
@ 240 VAC	kA	15				
@ 415 VAC	kA	15				
RATED SERVICE SHORT CIRCUIT BREAKING CAPACITY (Ics)						
@ 240 VAC	kA	10				
@ 415 VAC	kA	10				
CONSTRUCTION - CONDUCTOR SIZE						
UL/CSA	AWG	1 x #14 ~ #3				
Solid, Stranded, Fine Stranded	mm^2	1 x 2.08 ~ 26.7				
ROHS COMPLIANCE	For RoHS compliance documentation by product, refer to www.c3controls.com.					

UL 1077 SUPPLEMENTARY PROTECTORS						
	UNITS	1 POLE	1 + N POLE	2 POLE	3 POLE	3 + N POLE
ELECTRICAL GENERAL						
Rated Operating Current	A	0.5 ~ 63				
Operating Frequency	Hz	50/60				
Electrical Life	Ops.	6,000				
Line/Load Wiring		Suitable for reverse feed				
ELECTRICAL UL/CSA APPLICATIONS						
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	—	
MAXIMUM SHORT CIRCUIT RATING						
@ 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	—	—
ELECTRICAL IEC APPLICATIONS						
Conformity to Standards		IEC 60947-2, IEC 60898				
ULTIMATE SHORT CIRCUIT BREAKING CAPACITY (Icu)						
@ 240 VAC	kA	15				
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@ 240 VAC	kA	10				
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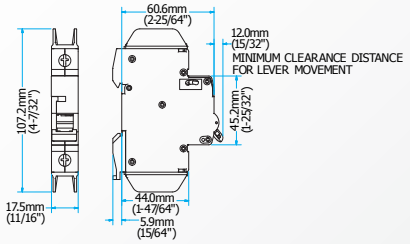
CONSTRUCTION - CONDUCTOR SIZE						
UL/CSA	AWG	1 x #14 ~ #3				
Solid, Stranded, Fine Stranded	mm^2	1 x 2.08 ~ 26.7				
ROHS COMPLIANCE	For RoHS compliance documentation by product, refer to www.c3controls.com.					

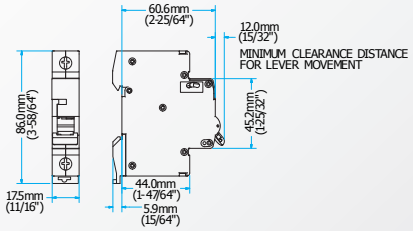
For complete ratings and detailed specifications refer to www.c3controls.com.

DIMENSIONS

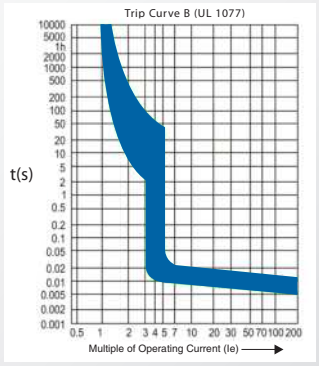
UL 489 Branch Circuit Breaker - 1 Pole

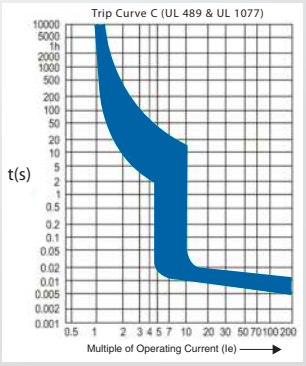


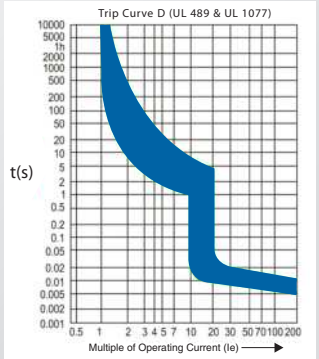
UL 1077 Supplementary Protector - 1 Pole



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 to download product certifications.



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