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 multipole 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 widerange 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.

Snap-On Accessories and Bus Bars

· Snap-on accessories are easily installed without the use of tools, further the bus bars also help lower assembly and installation costs.





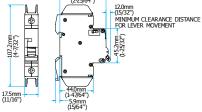


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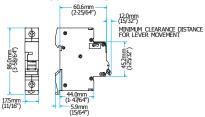
SPECIFICATIONS

| | UL 48 | 9 BRANCH | CIRCUIT BR | EAKERS | | | |
|---|---|---------------------------|--|---|--------------------------------------|------------|--|
| | 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 A | PPLIC | ATIONS | | | | | |
| Conformity to Standards | | | cULus | , UL 489, CSA C22. | 2 No. 5 | | |
| AC Rated Operating Voltage | V | 2 | 77 | | 480Y/277 | | |
| DC Rated Operating Voltage | v | 60 | _ | 125 | | _ | |
| MAXIMUM SHORT CIRCUIT RATING | | | | (wired in series) | | | |
| @ 120 VAC | kA | 10 | | | | | |
| @ 240 VAC | kA | 10 | | | | | |
| @ 277 VAC | kA | 10 | | | | | |
| @ 480Y/277 VAC | kA | | | 10 | | | |
| @ 60 VDC | kA | 10 | — | 10 | — | — | |
| @ 125 VDC (wired in series) | kA | — | — | 10 | — | _ | |
| ELECTRICAL IEC APPL | | NS | | | | | |
| Conformity to Standards | | | IE | C 60947-2, IEC 608 | 98 | | |
| ULTIMATE SHORT CIRCUIT | | | | | | | |
| BREAKING CAPACITY (Icu) @ 240 VAC | kA | | | 10 | | | |
| @ 415 VAC | kA kA | | | 10 | | | |
| RATED SERVICE SHORT CIRCUIT | K/1 | | | 10 | | | |
| BREAKING CAPACITY (Ics) | | | | | | | |
| @ 240 VAC | kA | | | 10 | | | |
| @ 415 VAC | kA | | | 10 | | | |
| CONSTRUCTION - CON | IDUCT | OR SIZE | | | | | |
| UL/CSA | AWG | | 1 x | #18 ~ #3, 2 x #18 ~ | · #10 | | |
| Solid, Stranded, Fine Stranded | mm ² | | | 1 x 0.8 ~ 26.7 | | | |
| ROHS COMPLIANCE | For Ro | HS compliand | e documentatio | on by product, refer | to c3controls | .com. | |
| i | JL 1077 | SUPPLEM | ENTARY PRO | DTECTORS | | | |
| | UNITS | 1 POLE | 1 + N POLE | 2 POLE | 3 POLE | 3 + N POLE | |
| ELECTDICAL CENEDAL | | | | | | | |
| ELECTRICAL GENERAL | | | | | | | |
| Rated Operating Current | A | | | 0.5 ~ 63 | | | |
| | | | | 0.5 ~ 63 50/60 | | | |
| Rated Operating Current Operating Frequency Electrical Life | А | | | 50/60 6,000 | | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring | A Hz Ops. | | Su | 50/60 | eed | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A | A Hz Ops. | ATIONS | Su | 50/60 6,000 | eed | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards | A Hz Ops. PPLIC | | cURus, l | 50/60 6,000 | 2 No. 235 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A | A Hz Ops. | | | 50/60 6,000 itable for reverse fo | | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards | A Hz Ops. PPLIC | | cURus, l | 50/60 6,000 itable for reverse fr JL 1077, CSA C22.2 125 | 2 No. 235 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage | A Hz Ops. PPLIC | 2 | cURus, l | 50/60 6,000 itable for reverse fo | 2 No. 235 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING | A Hz Ops. PPLIC | 2 | cURus, l | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 125 (wired in series) | 2 No. 235 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage | A Hz Ops. PPLIC V V | 2 | cURus, l | 50/60 6,000 itable for reverse fr JL 1077, CSA C22.2 125 | 2 No. 235 | - | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING @ 120 VAC | A Hz Ops. PPLIC V V V | 2 | cURus, l | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 125 (wired in series) 10 | 2 No. 235 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING @ 120 VAC @ 240 VAC | A Hz Ops. PPLIC V V V V | 2 | cURus, l | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 | 2 No. 235 | - | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING @ 120 VAC @ 240 VAC @ 277 VAC | A Hz Ops. PPLIC V V V kA kA kA | 2 | cURus, l | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 | 2 No. 235 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING @ 120 VAC @ 240 VAC @ 277 VAC @ 480Y/277 VAC | A Hz Ops. PPLIC V V kA kA kA kA | 60 | cURus, l | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 | 2 No. 235 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING @ 120 VAC @ 240 VAC @ 240 VAC @ 480Y/277 VAC @ 480Y/277 VAC @ 60 VDC @ 125 VDC (wired in series) | A Hz Ops. PPLIC V V V V kA kA kA kA kA kA kA | 2 60 10 — | cURus, l | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 10 10 | 2 No. 235 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING @ 120 VAC @ 240 VAC @ 240 VAC @ 277 VAC @ 480Y/277 VAC @ 60 VDC @ 125 VDC (wired in series) ELECTRICAL IEC APPL | A Hz Ops. PPLIC V V V V kA kA kA kA kA kA kA | 2 60 10 — | cURus, l 77 — | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 10 10 | 2 No. 235 480Y/277 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage DC Rated Operating Voltage @ 120 VAC @ 120 VAC @ 240 VAC @ 277 VAC @ 480Y/277 VAC @ 60 VDC @ 125 VDC (wired in series) ELECTRICAL IEC APPLI Conformity to Standards UITIMATE SHORT CIRCUIT BREAKING CAPACITY (Icu) | A Hz Ops. PPLIC V V V kA kA kA kA kA kA kA kA | 2 60 10 — | cURus, l 77 — | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 10 10 20 60947-2, IEC 608 | 2 No. 235 480Y/277 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage DC Rated Operating Voltage @ 120 VAC @ 270 VAC @ 480Y/277 VAC @ 480Y/277 VAC @ 60 VDC @ 125 VDC (wired in series) ELECTRICAL IEC APPLI Conformity to Standards ULTIMATE SHORT CIRCUIT BEAKING CAPACITY (Icu) @ 240 VAC | A Hz Ops. PPLIC V V kA kA kA kA kA kA kA kA kA kA kA kA kA | 2 60 10 — | cURus, l 77 — | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 10 10 10 20 50947-2, IEC 608 | 2 No. 235 480Y/277 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SNORT CIRCUIT RATING @ 120 VAC @ 240 VAC @ 277 VAC @ 480Y/277 VAC @ 60 VDC @ 60 VDC @ 60 VDC @ 125 VDC (wired in series) ELECTRICAL IEC APPLI Conformity to Standards UITIMATE SHORT CIRCUIT BREAKING CAPACITY (Icu) @ 240 VAC @ 240 VAC @ 240 VAC | A Hz Ops. PPLIC V V V kA kA kA kA kA kA kA kA | 2 60 10 — | cURus, l 77 — | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 10 10 20 60947-2, IEC 608 | 2 No. 235 480Y/277 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING @ 120 VAC @ 240 VAC @ 277 VAC @ 60 VDC @ 125 VDC (wired in series) ELECTRICAL IEC APPLI Conformity to Standards ULTIMATE SHORT CIRCUIT BREAKING CAPACITY (Icu) @ 240 VAC @ 415 VAC RATED SERVICE SHORT CIRCUIT | A Hz Ops. PPLIC V V kA kA kA kA kA kA kA kA kA kA kA kA kA | 2 60 10 — | cURus, l 77 — | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 10 10 10 20 50947-2, IEC 608 | 2 No. 235 480Y/277 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING @ 120 VAC @ 240 VAC @ 277 VAC @ 60 VDC @ 125 VDC (wired in series) ELECTRICAL IEC APPLI Conformity to Standards UITIMATE SHORT CIRCUIT BREAKING CAPACITY (Icu) @ 240 VAC @ 415 VAC RATED SERVICE SHORT CIRCUIT BREAKING CAPACITY (Ics) | A Hz Ops. PPLIC V V V kA kA kA kA kA kA kA kA kA kA kA kA kA | 2 60 10 — | cURus, l 77 — | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 10 10 2 60947-2, IEC 608 | 2 No. 235 480Y/277 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING @ 120 VAC @ 240 VAC @ 277 VAC @ 60 VDC @ 125 VDC (wired in series) ELECTRICAL IEC APPLI Conformity to Standards UITIMATE SHORT CIRCUIT BREAKING CAPACITY (Icu) @ 240 VAC @ 415 VAC RATED SERVICE SHORT CIRCUIT BREAKING CAPACITY (Ics) @ 240 VAC | A Hz Ops. PPLIC V V V kA kA kA kA kA kA kA kA kA kA kA kA kA | 2 60 10 — | cURus, l 77 — | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 10 10 20 60947-2, IEC 608 10 10 10 | 2 No. 235 480Y/277 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING @ 120 VAC @ 240 VAC @ 240 VAC @ 60 VDC @ 60 VDC @ 125 VDC (wired in series) ELECTRICAL IEC APPLI Conformity to Standards UTIMATE SHORT CIRCUIT BREAKING CAPACITY (Ico) @ 240 VAC @ 415 VAC RATED SERVICE SHORT CIRCUIT BREAKING CAPACITY (Ics) @ 240 VAC | A Hz Ops. PPLIC V V V V kA kA kA kA kA kA kA kA kA kA kA kA | 2 60 10 | cURus, l 77 — | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 10 10 2 60947-2, IEC 608 | 2 No. 235 480Y/277 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage DC Rated Operating Voltage MAXIMUM SHORT CIRCUIT RATING @ 120 VAC @ 240 VAC @ 240 VAC @ 277 VAC @ 60 VDC @ 60 VDC @ 60 VDC @ 60 VDC @ 125 VDC (wired in series) ELECTRICAL IEC APPLI Conformity to Standards ULTIMATE SHORT CIRCUIT BREAKING CAPACITY (Icu) @ 240 VAC @ 415 VAC @ 415 VAC CONSTRUCTION - CON | A Hz Ops. PPLIC V V V V kA kA kA kA kA kA kA kA kA kA kA kA | 2 60 10 | cURus, l 77 — — — — — — — — — — — — — — — — — — | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 10 10 10 0 0 10 10 10 10 10 | 2 No. 235 480Y/277 998 | | |
| Rated Operating Current Operating Frequency Electrical Life Line/Load Wiring ELECTRICAL UL/CSA A Conformity to Standards AC Rated Operating Voltage MAXIMUM SNORT CIRCUIT RATING @ 120 VAC @ 240 VAC @ 240 VAC @ 60 VDC @ 125 VDC (wired in series) ELECTRICAL IEC APPLI Conformity to Standards ULTIMATE SHORT CIRCUIT BREAKING CAPACITY (Ilcu) @ 240 VAC @ 415 VAC RATED SERVICE SHORT CIRCUIT BREAKING CAPACITY (Ilcs) @ 240 VAC @ 415 VAC | A Hz Ops. PPLIC V V V V kA kA kA kA kA kA kA kA kA kA kA kA | 2 60 10 | cURus, l 77 — — — — — — — — — — — — — — — — — — | 50/60 6,000 itable for reverse for JL 1077, CSA C22.2 (wired in series) 10 10 10 10 10 10 20 60947-2, IEC 608 10 10 10 | 2 No. 235 480Y/277 998 | | |

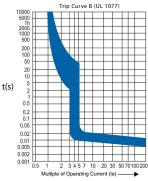
DIMENSIONS UL 489 Branch Circuit Breaker - 1 Pole

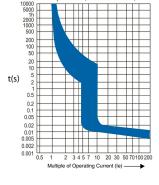


UL 1077 Supplementary Protector - 1 Pole



TRIP CURVES





Trip Curve C (UL 489 & UL 1077)

CERTIFICATIONS conformity to Standards: Certif

UL 489 UL 1077 UL 508 CSA C22.2 No. 5, No. 235 IEC 60947-2, IEC 60898



Certifications: UL File#: E496118 UL File#: E496119 UL File#: E336563 UL File#: E508090 CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/ EU)

For complete ratings, detailed specifications, or to download product certifications visit c3controls.com.





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