



c3controls®

DC Miniature Circuit Breakers

Designed to support and protect the transition to renewable energy and mission critical applications.

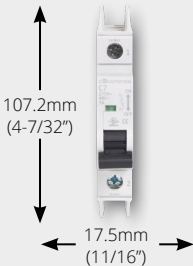
series
1110



Solutions

Delivering Superior Product Quality and Manufacturing Excellence with the Best Protection & Best Value!

c3controls is one of the few to introduce Direct Current (DC) Miniature Circuit Breakers designed and manufactured for all your DC industrial control, transportation, energy storage system and photovoltaic applications.



Compact Design

17.5mm wide per pole construction for reduced panel size, allowing for smaller control panels.



Industry-Leading Short Circuit Rating

10kA short circuit current rating on all constructions — the highest interruption rating in the market.



Full-Range Circuit Protection

Available in one, two, three, and four pole constructions, and includes both magnetic and thermal elements for overload and short circuit protection.

VI. OPERATING CURRENT			
CODE	DESCRIPTION		
C50	0.5A		
D10	1.0A		
D16	1.6A		
D20	2.0A		
D30	3.0A		
D40	4.0A		
D50	5.0A		
D60	6.0A		
D70	7.0A		
D80	8.0A		
D10	10A		
U13	13A		
U15	15A		
U16	16A		
U20	20A		
U25	25A		
U30	30A		
U32	32A		
U40	40A		
U50	50A		
U63	63A		

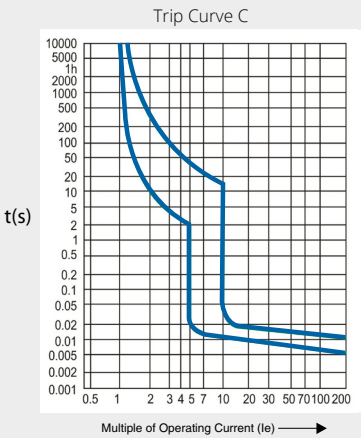
Application Range & Flexibility

Up to 22 unique current rating configurations from 0.5 to 63A for a broad range of applications.



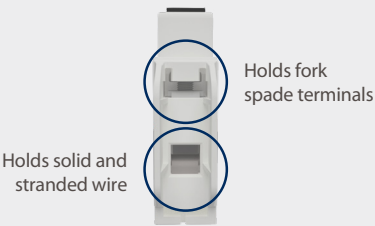
Trip-Free Design

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



Dual Trip Curve

Provides individual load protection pertaining to direct current for situations like renewable energy generation using solar arrays, energy transfer with micro-grids using battery packs, emergency storage and use with Uninterruptible Power Supplies (UPS).



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.



Easy Installation

35mm DIN rail mounting for fast and easy installation and removal.



Customizable Options

With up to 10 shorting link / jumper configurations, there is a plethora of options to suit all applications.

The Perfect Range of DC Miniature Circuit Breakers.

Our UL489B branch circuit breakers offer a wide range of pole sizes, amperage ranges, and trip curves — providing superior performance and flexible application environments.



UL 489B BRANCH CIRCUIT BREAKERS

- 17.5mm wide per pole construction
- Available one, two, three, and four pole constructions
- Includes both thermal and magnetic elements
- Rated 250V DC per pole for up to 1000V DC
- Current ratings from 0.5A to 63A
- Dual Trip Curves C and D



ACCESSORIES

- Snap-on accessories are easily installed without the use of tools.
- Side mounted auxiliary contacts for remote status indication of device connection and a version with an alarm to indicate device tripped.
- Shunt-trip module for remote tripping and an under voltage module for protection against voltage dips and swells.
- The heavy duty Lock-off attachment when used with a padlock ensures the security necessary during maintenance activities.

Performance & Safety

Engineered to a Higher Standard, Ensuring a More Sustainable Future.

With both thermal and magnetic trip elements for overload and short circuit protection, these breakers provide high voltage DC circuit protection and fully meet UL 489B, the standard for DC photovoltaic systems.



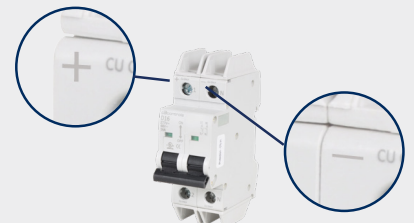
Proven

Our Series 1110 DC Miniature Circuit Breakers are UL Listed per UL489B, the standard for DC photovoltaic systems and are compliant to the RoHS directives.



Short Circuit Current Rating

10kA short circuit current rating on all constructions.



Polarized Design

Provides unidirectional protection for overloads and short circuits.



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 (Green = Tripped, Red = ON).



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.

GET THE MOST OUT OF OUR COMPLETE LINE OF DC MINIATURE CIRCUIT BREAKERS.

Download technical specifications, dimension drawings, and configure products!

SHOP NOW:

c3controls.com/dc-mcb

