

DC MINIATURE CIRCUIT BREAKERS



SERIES 1110 PRODUCT PROFILE

c3controls is one of the few to introduce **Direct Current (DC) Miniature Circuit Breakers (MCBs)** designed and manufactured for all your DC industrial control, transportation, energy storage system and photovoltaic applications. With market leading design at a price that gives you an edge, this product cannot be missed. Check out the amazing features of our Series 1110 DC MCBs below.



DELIVERING SUPERIOR PRODUCT QUALITY AND MANUFACTURING EXCELLENCE

✓ 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. 
✓ 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, breaking capacity and configuration type 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.
✓ 36-Month Warranty*	Every product is backed by our 36-Month Warranty—giving you confidence in the quality, reliability, and performance of components designed for the most demanding applications.
✓ 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, two pole, and four pole constructions that includes both magnetic and thermal elements for overload and short circuit protection, finely designed to work with DC ratings.

Market Leading Ratings

- Rated 250V DC per pole, and current ratings from 0.5A to 63A. Short circuit current rating is 10kA and Breaking capacity is rated for 10kA.

Trip Free Mechanism

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

Polarized Design

- Provides unidirectional protection for overloads and short circuits.

Customizable Options

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



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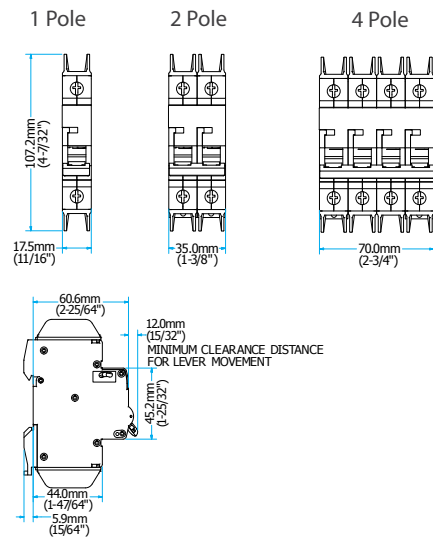
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SPECIFICATIONS

ELECTRICAL				
	UNITS	1 POLE	2 POLE	4 POLE
ELECTRICAL GENERAL				
Rated Operating Current	A		0.5 ~ 63	
Electrical Life	Ops.		6,000	
Tripping Curves			C, D	
ELECTRICAL UL/CSA APPLICATIONS				
Conformity to Standards		UL 489B, CSA C22.2 No. 305 as Photovoltaic Breakers		
DC Rated Operating Voltage	VDC	250	500	1000
MAXIMUM SHORT CIRCUIT RATING				
@ 250 VDC	kA		10	
@ 500 VDC	kA		10	
@ 750 VDC	kA		10	
@ 1000 VDC	kA		10	
MECHANICAL, ENVIRONMENTAL & CONSTRUCTION				
	UNITS	1 POLE	2 POLE	4 POLE
MECHANICAL				
Mechanical Endurance	Ops.		20,000	
ENVIRONMENTAL				
Ambient Operating Temperature	°C / °F		-20 to 50 / -4 to 122	
Ambient Storage Temperature	°C / °F		-25 to 80 / -13 to 176	
Calibration Temperature	°C / °F		40 / 104	
Altitude	m / ft.		2,000 / 6,562	
Shock	G		15	
CONSTRUCTION				
Poles (availability)			1, 2, 3 and 4 Pole	
Mounting			Standard 35mm DIN Rail	
Width of MCB			17.5mm	
Terminal Screws			Captive	
INGRESS PROTECTION				
Line & Load Terminations	IP		20	
WEIGHT				
	kgs	0.125	0.25	0.50
	lbs	0.275	0.55	1.10
CONDUCTOR SIZE				
UL/CSA	AWG		1 x #18 ~ #3, 2 x #18 ~ #10	
Solid, Stranded, Fine Stranded	mm ²		1 x 0.82 ~ 26.7	
TERMINAL WIRING CONNECTION				
Wire Type			Copper wire only, 75°C	
TERMINAL TORQUE				
	Nm / lb-in		2.5 / 22.2	
CONTACT INDICATION				
			Green and Red	
DESIGN				
			Trip Free Design (breaker cannot be defeated by holding the handle in the "ON" position)	
ROHS COMPLIANCE				
			For RoHS compliance documentation by product, refer to c3controls.com	

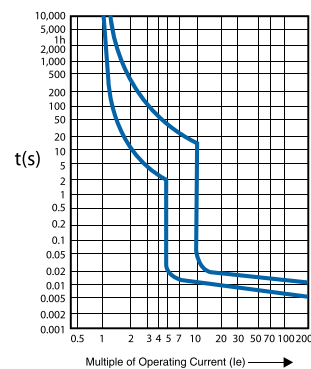
For complete ratings, detailed specifications, or to download product certifications visit c3controls.com.

DIMENSIONS

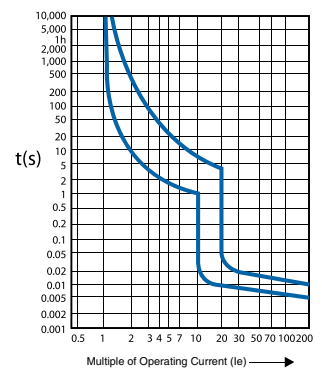


TRIP CURVES

Trip Curve C



Trip Curve D



CERTIFICATIONS

Conformity to Standards:

DC Miniature Circuit Breakers

UL 489B
CSA C22.2 No. 305



Accessories

UL 489



Certifications:

UL File#: E533935
UL File#: E533935

UL File#: E508090

