

500V DC Miniature Circuit Breaker 80-125A


This miniature circuit breaker (MCB) is designed for DC circuit protection up to 500V. It protects against overcurrent and short circuit conditions.




ADDITIONAL IMAGES




Overview




QUALITY ASSURANCE



OFFICIAL GOODS



COMPLETE SPECIFICATIONS




DURABLE

Our products focus on quality assurance, official certification, and long-term durability.

SUCCESSFUL BUYER CASE

MORDEDAY - 10-Year Manufacturer



Proven performance in residential and commercial solar distribution and EV charging projects.

High-Performance DC Circuit Protection

This Miniature Circuit Breaker (MCB) is specifically engineered for DC systems, providing essential protection against overcurrent and short-circuit damage. It is an ideal solution for solar photovoltaic installations, electric vehicle charging infrastructure, and industrial DC processes. With a robust design capable of handling currents up to 125A, it ensures the safety and longevity of your electrical circuits.

Technical Performance

Key Performance Metrics

500 V DC
Rated Voltage

125 A
Max Current

10 kA
Breaking Capacity

Electrical Specifications

Available Current Ratings

- 1A
- 3A
- 6A
- 10A
- 16A
- 20A
- 32A
- 40A
- 50A
- 63A
- 80A
- 100A
- 125A

Voltage Ratings	DC 250V, DC 500V, DC 600V, DC 1000V
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Characteristic Curves	B Curve, C Curve, D Curve
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Construction & Installation

Pole Options	1P, 2P, 3P, 4P
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Mounting Type	35mm DIN Rail
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Unit Dimensions (WxHxD)	18mm x 80mm x 71mm
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Durability & Environment



Engineered to maintain normal operation in extreme temperature environments.

Operating Life

Type	Cycles
Electrical Life	8,000+ times
Mechanical Life	2,000+ times

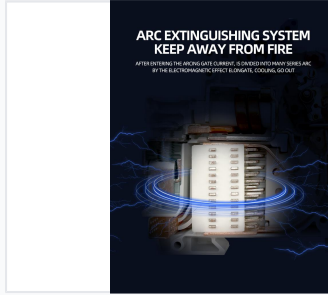
Environmental Limits

- Working Temperature: -5°C to +40°C
- Protection Degree: IP20
- Max Installation Altitude: 2000m

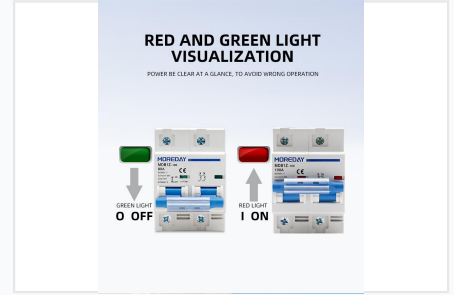
Safety & Compliance



Comprehensive protection against short circuits and overloads for family and equipment safety.



Internal arc extinguishing system divides and cools electrical arcs to prevent fire hazards.



Red and green light visualization allows for clear power status monitoring at a glance.

International Standards

IEC/EN60947-2 • CE • RoHS

Integrated Safety Features

- Advanced Arc Extinguishing System
- Visual Status Indication (Red/Green)
- Short Circuit Protection
- Overload Protection