

1500V 400A DC Molded Case Circuit Breaker MCCB

The 1500V 400A DC MCCB is the main protection system for low voltage electrical installations. It is installed in each electrical distribution cabinet to prevent overvoltage from spreading in electrical installations and loads.



ADDITIONAL IMAGES



Overview



High-voltage DC MCCB designed for 24/7 safety in solar photovoltaic installations.

High-Voltage DC Protection Solution

The MDM5Z-400 is a high-performance molded case circuit breaker designed as the primary protection system for low voltage electrical installations, specifically optimized for solar DC systems. It effectively prevents overvoltage propagation, protecting circuits and power equipment from damage caused by short circuits and undervoltage. Engineered for versatility, it supports both vertical and horizontal installation in electrical distribution cabinets.

Key Performance Metrics

Key Performance Metrics

1500 V DC

Rated Voltage

400 A

Rated Current

8 kV

Impulse Withstand

Technical Specifications

Rated Insulation Voltage (Ui)	1000 V
Icu/Ics Breaking Capacity	40/25kA
Utilization Category	Category A
Reference Operating Temperature	40 °C

Protection & Features



Integrated protection mechanisms to prevent short circuit explosions and equipment damage.



Constructed with PA66 flame retardant material for superior heat and chemical resistance.



Red and green light visualization allows for immediate verification of power status.

Enclosure Material

- PA66 Flame Retardant Material
- High Wear Resistance
- Heat and Chemical Resistance
- Static Electricity Dissipation
- Electrostatic Discharge (ESD) Protection

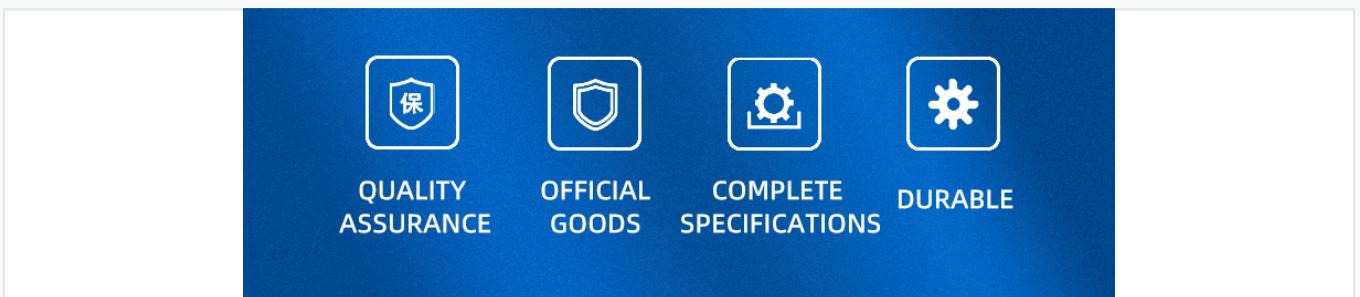
Protection Functions

Overload Protection, Short Circuit Protection, Undervoltage Protection, Overvoltage Prevention

Status Indicators

Red (ON) and Green (OFF) visualization for clear status identification

Installation & Standards



Certified equipment meeting international standards for durable industrial use.

International Standards

IEC 60947-2 • GB/T 14048.2 • CCC

Mounting Orientation

Vertical, Horizontal

Product Series Data

MDM1Z Series Selection Guide

Model	Rated Continuous Current (A)	Rated Working Voltage (V)
MDM1Z-125 PV	125	250V / 500V
MDM1Z-250 PV	250	500V / 750V
MDM1Z-400 PV	400	500V / 750V
MDM1Z-630 PV	630	500V / 750V
MDM1Z-1250 PV	1250	750V / 1000V