

DC Miniature Circuit Breaker for Solar PV

This DC miniature circuit breaker is designed for solar photovoltaic (PV) systems. It provides essential protection against overcurrent and short circuit faults.



ADDITIONAL IMAGES



Product Overview



Advanced arc extinguishing system that divides and cools the arc through electromagnetic effects for rapid fault interruption.

High-Performance DC Protection

The MDB1Z-63 series is a reliable DC Miniature Circuit Breaker specifically engineered for solar PV systems, offering robust protection against overcurrent and short circuits. Its compact design makes it an ideal choice for installations with limited space, such as residential and commercial electrical setups. Featuring an advanced arc extinguishing system and thermal-magnetic trip technology, this breaker ensures the safety and longevity of your solar power infrastructure.

Key Performance Metrics

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10 kA

Breaking Capacity (I_{cu}/I_{cs})

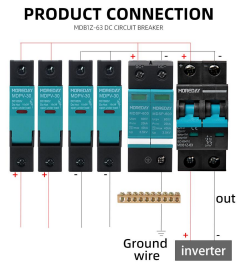
6 kV

Impulse Voltage (U_{imp})

1250 VDC

Insulation Voltage (U_i)

Electrical Specifications



Typical application wiring including surge protection devices and inverter connection for solar PV safety.

Rated Operating Voltage

- 12V
- 24V
- 48V
- 300V
- 600V
- 900V
- 1200V

Available Rated Currents

- 10A
- 16A
- 20A
- 25A
- 32A
- 40A
- 50A
- 63A

Poles	1P, 2P, 3P, 4P
Trip Unit Type	Thermal-magnetic
Curve Type	C

Durability & Service Life

Mechanical Endurance	20000 cycles
Electrical Endurance	2500 cycles

Installation & Environment



Engineered to maintain normal functionality in extreme environmental conditions.

Wiring Capacity

Rated Current (In)	Cable Cross Section
d 3A	1.5 - 6 mm ²
e 4A	10 - 16 mm ²

Operating Temperature	-20°C to +70°C
Mounting Type	Standard DIN Rail
Max Operating Altitude	2000 m

Compliance

Certifications

Moreday has a number of product and appearance patents, and a number of authoritative certificates are attributed to our internal R&D team.



CE, CB, TUV, IEC, RoHS, CCC.....

Fully certified according to CE, CB, TUV, and IEC standards for international market compliance.

International Standards

IEC 60947-2 • GB/T14048.2 • CE • CB • TUV • RoHS • CCC

Physical Dimensions

PRODUCT SIZE

MORDEY 60V DC CIRCUIT BREAKER



Compact 36mm width for 2-pole configuration, suitable for space-constrained DIN rail installations.

Unit Dimensions	81mm (H) x 36mm (W) x 66mm (D)
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