

DC Molded Case Circuit Breaker

This DC molded case circuit breaker is designed for photovoltaic installations from array combiner boxes to AC/DC inverters and main panels. It provides protection against overloads and short circuits with thermo-magnetic trip technology.



ADDITIONAL IMAGES



Overview



The KYV series is designed for direct current applications, providing reliable overcurrent protection in demanding environments.

High-Performance DC Circuit Protection

The KYV series DC Molded Case Circuit Breakers (MCCB) are specifically engineered for photovoltaic installations, ranging from array combiner boxes to AC/DC inverters. These units provide robust thermo-magnetic overload and short-circuit protection, ensuring the safety and reliability of solar power systems, electric vehicles, and battery storage environments. Featuring a compact design and high breaking capacity, they offer a versatile solution for demanding DC electrical systems.

Key Performance Metrics

Performance Highlights

1000 V DC

Max Operating Voltage

15000 A

Ultimate Breaking Capacity (Icu)

8000 V

Impulse Withstand Voltage

Technical Specifications

Model Range & Rated Current

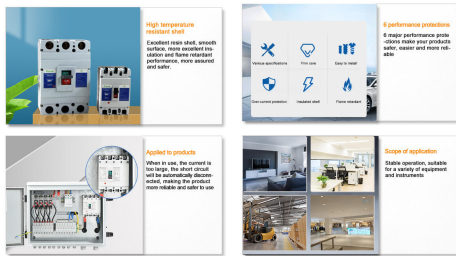
Model	Rated Current (A)
KYV-125MPV	63, 80, 100, 125
KYV-250MPV	125, 160, 200, 225, 250
KYV-400MPV	250, 315, 350, 400
KYV-800MPV	500, 630, 700, 800

Mechanical Endurance 4000

Electrical Endurance 100

Features & Design

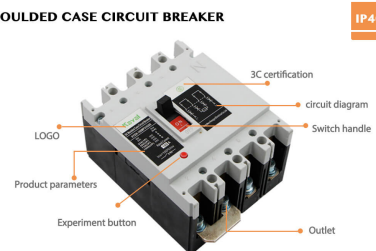
CHARACTERISTIC



The unit features a high-temperature resistant, flame-retardant resin shell for enhanced safety and insulation performance.

PRODUCT DESCRIPTION

MOULDED CASE CIRCUIT BREAKER



Detailed view of the circuit breaker interface including the experiment button, switch handle, and IP40 rated enclosure.

Key Features

- Compact design for space-saving installation
- High breaking capacity
- Thermo-magnetic trip mechanism
- Available in 2, 3, and 4 pole configurations
- Visible ON/OFF indicator
- Integrated experiment button for functionality testing

Safety Protections

Over-current Protection, Short-circuit Protection, Flame Retardant Shell, Insulated Housing, IP40 Rated

Standards & Compliance

Standards

IEC 60947-2 • 3C Certified

Accessories

Optional Accessories

- Shunt release
- Under-voltage release
- Auxiliary switch
- Alarm switch

Applications

Typical Applications

Photovoltaic Systems, Solar Array Combiner Boxes, Electric Vehicles, Battery Energy Storage, AC/DC Inverters