

# DC Molded Case Circuit Breaker

This DC molded case circuit breaker is designed for DC power systems. It features a rated voltage of DC 1000V, impulse withstand voltage of 12kV, and a rated current of 1500V.



## ADDITIONAL IMAGES



## Product Overview

### Photovoltaic DC Protection

The SM8-250HPV series is a specialized DC molded case circuit breaker engineered for high-voltage photovoltaic applications. It provides essential protection against overloads and short circuits in DC grid systems up to 1500V. Designed with a compact structure, this breaker ensures reliable energy distribution and equipment safety in demanding solar power environments.

## Electrical Ratings

|                           |        |
|---------------------------|--------|
| Rated Operational Voltage | 1500 V |
| Rated Current             | 250 A  |
| Rated Insulation Voltage  | 1500 V |
| Impulse Withstand Voltage | 12 kV  |

## Performance Metrics

### Breaking Capacity

**20 kA**

Ultimate Breaking Capacity (Icu)

**75 % Icu**

Service Breaking Capacity

### Trip Currents

| Voltage  | Trip Current |
|----------|--------------|
| DC 1500V | 15A          |
| DC 1250V | 20A          |

## Compliance & Environment

|                         |                          |
|-------------------------|--------------------------|
| Compliance Standards    | IEC60947-2, GB/T 14048.2 |
| Max Ambient Temperature | 50 °C                    |

## Features

### Key Features

- Overload long delay protection
- Short circuit instantaneous protection
- Quick closing mechanism
- Fast reading segmentation
- Push-to-trip manual testing button

### Category

Category A