

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