

MODEL AND SIGNIFICANCE

S	M	8	-	400	HPV	/	2	300	400A
Company Code	Product Category	Design Serial Number		Frame Current Level	High Breaking Capacity		Number of Poles	Trip Mode and Accessory Code: Refer to Model Marking	Rated Current: 200, 225, 250, 315, 350, 400

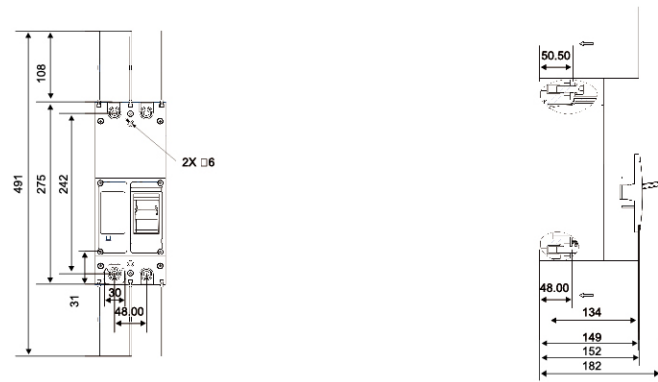
PRODUCT OVERVIEW

The SM8-400HPV/2 DC Molded Case Circuit Breaker is suitable for circuits with a rated voltage of DC1500V and a rated current ranging from 200A to 400A. It is designed for making, breaking, and carrying the rated current, providing reliable protection for circuits and electrical equipment in case of overload and short-circuit conditions. It is widely used in photovoltaic applications in new energy, power, infrastructure, and industrial sectors.

PRODUCT FEATURES

- The circuit breaker has a beautiful appearance, compact size, and high breaking capacity.
- The product has non-polarity for current, providing reliable protection for both forward and reverse connections.
- It can operate reliably within a temperature range of -40°C to +70°C without derating at +50°C.
- Zero arc exposure: Equipped with an arc extinguishing cover and three layers of free metal partition plates, preventing secondary faults caused by arc spraying during breaking
- It has a single-phase DC1500V grounding breaking capacity of 10kA.

DIMENSIONS (mm)



DC MCCB

● SM8-400HPV / 2P 1500V



ELECTRICAL PARAMETERS

Product Model		SM8-400HPV / 2P 1500V		
Frame Rated Current		400A		
Rated Operating Current (In)		200, 225, 250, 315, 350, 400		
Number of Poles		2P		
Rated Operational Voltage (Ue)		DC250V/DC500V	DC750V/DC1000V	DC1000V/DC1500V
Rated Insulation Voltage (Ui)		1500V		
Rated Impulse Withstand Voltage (Uimp)		12kV		
Rated Service Short-Circuit Breaking Capacity (Ics)		100%Icu	100%Icu	100%Icu
Rated Ultimate Short-Circuit Breaking Capacity (Icu)		70	40	20
Mechanical Life	Actual Average Value	15000Times		
	Standard Specified Value	4000Times		
Electrical Life	Actual Average Value	1000Times		
	Standard Specified Value	1000Times		
Isolation Characteristics		Yes		
Standard		According to IEC60947-2 and GB/T14048.2-2020		
Release type		Thermal magnetic type (thermal magnetic non-adjustable)TMD Fixed		
Pollution Degree		2		
Protection Degrees		IP20		
Operational environment temperature		-40°C~+70°C		
Accessories		Internal Accessories: Shunt release, undervoltage release, auxiliary, alarm, auxiliary-alarm		
Warranty Period		18 months		

