



Safety Warning

1.The product shall not be installed in environments that contain flammable or explosive gases, are damp or humid, or are subject to severe dust conditions. Operation of the product with wet hands is strictly prohibited.

2.Do not touch any conductive parts of the product during its operation.

3.Ensure that the power supply is disconnected when installing, maintaining, or repairing the product.

4.Avoid installing the product in locations where corrosive gases or substances may damage the metal components and insulation.

5. To prevent accidents, the installation and securing of the product must be performed in strict accordance with the provided instructions.

6.Direct contact methods are prohibited for testing the operational characteristics of the circuit breaker.

7. The circuit breaker has undergone insulation characteristic tests prior to factory dispatch. If retesting is necessary before installation, proceed as follows:

a. Utilize a 500VDC megohmmeter;

b. With the circuit breaker in the off position, conduct insulation resistance tests between terminals 1-2, 3-4, 5-6, and between terminals 1, 3, 5, and N (if applicable) to the casing (with the casing grounded to the metal enclosure) individually;

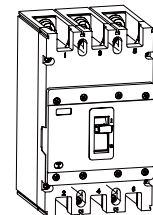
c.The insulation resistance must not be less than 20MΩ;
In the absence of a 500VDC megohmmeter, an AC withstand voltage tester may be employed as an alternative. Perform the test in accordance with the insulation testing protocol, applying a voltage of 2000V for a duration of 5 seconds.

1 Information for use

- 1.The normal operating temperature range for the product is -5°C to +40°C. Note: If used within the range of -35°C to +70°C, please consult with the manufacturer for usage.
- 2.If the altitude exceeds 2000 meters, please consult with the manufacturer for usage.
- 3.Pollution level: Class 3.
- 4.Main circuit installation category: III.
- 5.Enclosure protection level: Ip20.

2 Inspection and test

Inspection



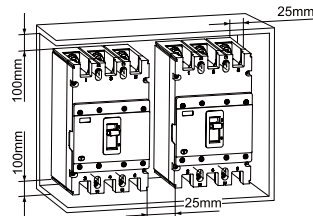
tool
CROSS
screwdriver

Model	Mounting screw	Quantity
M3DC-320HU	M4X30	4
M3DC-400/ 630/800HU	M5X10	2



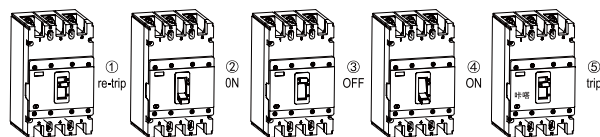
1. Determine the technical specifications of the product.
2. Only professionally qualified personnel are authorized to install, operate, and maintain the products.

Minimum mounting distance



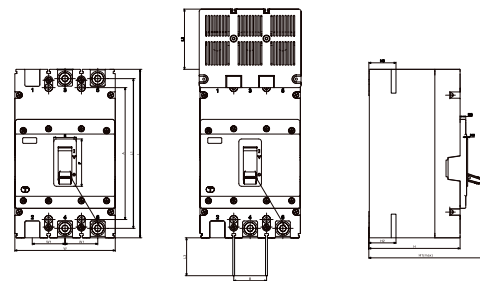
Ensure the minimum
installation distance

Test



3 Outline and mounting dimension

SCM3DC Outline and mounting dimension

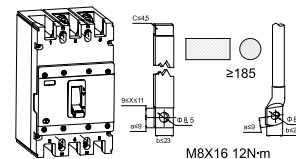


Unit: mm

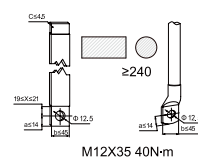
DIMENSION TYPE	DIMENSION CODE	SCM3DC-320(DC1000V 2 Pole)	SCM3DC-320(DC1000V 3 Pole)	SCM3DC-400/630/800(DC1000V 2 Pole)
OUTLINE DIMENSION	L	180	180	250
	L1	180	180	218
	L2/3	-90	65/90	65/100
	W	76	107	124
	W1	35	35	58
	E	24	24	56
	F	50.5	50.5	76
	H	97.5	97.5	123
	H1	126	126	163
	H2	20.5	20.5	40
	H3	29.5	29.5	40
MOUNTING DIMENSION	H4	1	1	1.5
	H5	6	6	8.5
	A	141	141	200
	B	35	35	58
	Φd	4.2	4.2	6.5

4 Mounting and wiring

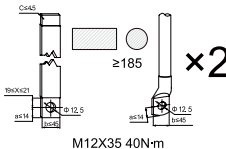
SCM3DC-320



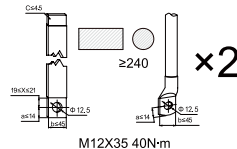
SCM3DC-400



SCM3DC-630

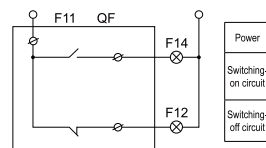


SCM3DC-800

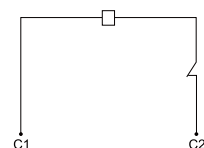


5 Accessory information

Auxiliary contact wiring diagram

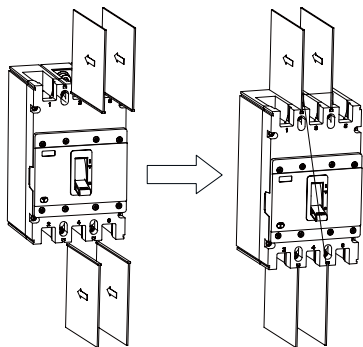


Shunt release wiring diagram



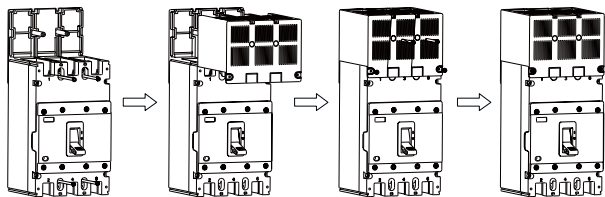
6 Accessory information

Installation of the phase interval arc plate



1. The shield must be installed before the product operates.
2. Verify that the product wiring is correct.
3. The insulation resistance to ground should be no less than 10 megaohms (MΩ) after installation.

Installation of partitions and shields



7 Warranty

Under normal storage and transportation conditions, and provided the packaged products are in good condition, the warranty period is 36 months from the date of product manufacture. The warranty does not cover the following:

1. Damage caused by improper use, storage, and maintenance.
2. Damage caused by non-authorized personnel or organizations, including independent disassembly and maintenance.
3. Products that exceed the warranty period.
4. Damage due to force majeure factors.

8 Environmental protection

To safeguard the environment, when discarding the product or its components, please ensure proper disposal as industrial waste. Alternatively, submit them to a recycling facility for classification and recycling in accordance with applicable international regulations.

Safety tips

1. Installation of the product is strictly prohibited in environments with flammable and explosive gases or wet conditions. Operating the product with wet hands is also prohibited.
2. It is strictly forbidden to touch the conductive parts of the product while it is in operation.
3. Ensure the power is turned off during installation, maintenance, and servicing of the product.
4. Avoid installing the product in areas where the gaseous medium can corrode metal and damage insulation.
5. To prevent accidents, installation and securing of the product must be done strictly following the provided instructions.



SOLARC Combiner Box Manual
Scan to view the document



SOLARC Component Manual
Scan to view the document

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Scan the QR code to learn



QC PASS

Model: SCM3DC

Name: DC Molded Case Circuit Breaker

This product has been inspected and is found to be compliant with the standard IEC/EN 60947-2, and is approved for shipment.

Inspector: Check 14

Date: See product or packaging

WENZHOU SOLARC NEW ENERGY CO.,LTD



SOLARC NEW ENERGY

NO:2023.12

SCM3DC DC Molded Case Circuit Breaker

User Instruction

Thank you for purchasing this product. Before installing, using, or maintaining the product, please read the instruction manual carefully.