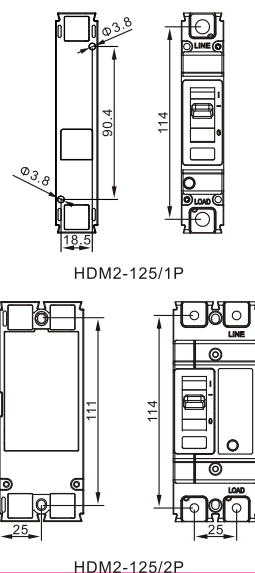


**B Installation dimensions (mm)**



**Notice before installing HDM2-125**

- Before installation:
  - (1) Check whether the parameters on nameplate comply with the application requirement;
  - (2) Make sure the handle at the position of "Trip";
  - (3) Open and close the circuit breakers 3 times, and the operation should be reliable and no clamping, and the handle should be at position "OFF";
- When installing:
  - (1) Check whether the wire connection is correct, and connect "LINE" to power supply, and "LOAD" to equipments.
  - (2) Refer to below table 1 for recommended wiring cross section and related rated current, to make sure the breaker work properly;
  - (3) Refer to table 2 for wiring fastening torque;

Table 1 Rated current and related wiring cross section

Rated current A	10	16, 20	25	32	40, 50	63	80	100	125
Cross section of wire mm <sup>2</sup>	1.5	2.5	4	6	10	16	25	35	50

Table 2 Fastening torque

Model	Screw	Fastening torque N·m
125AF	M8	9.5-10.5

**Maintenance of HDM2-125**

- The maintenance must be operated by professional persons;
- Make sure that the power is cut off before maintain breaker;
- Maintain breaker once a year under normal operation condition. See table 3 for details.

Table 3 Maintenance

Type	Item	Content
Circuit breaker	Appearance	There is no dust and condensation on the surface of breaker; Product is not damaged; There is no color change on the surface and terminal of breaker; No discoloration at the shell or connecting terminal.
	Terminal connection	Tighten screw according to the torque specified in table 2
	Interphase barrier	Insert interphase barrier in breaker tightly Interphase barrier is not damaged.
	Handle closing and opening	Operation shall be flexible
	Insulation test	Test according to IEC 60947.2
Circuit breaker with accessories (if applicable)	Test button	The handle should be at trip position after tripping
	Installed with undervoltage release	The breaker shall open reliably when cut off the power supply of undervoltage release, and the handle should be at TRIP position
	Installed with shunt release	The breaker shall open reliably when energizing the shunt release with rated voltage, and the handle should be at TRIP position
	Installed with auxiliary contacts	Open and close the breaker, the auxiliary contacts shall transfer signal reliably

**Standard accessories and necessary tools**

Standard accessories			
Appellation	Model	Quantity	Figure
Installing screw	M4 x 55	2pcs (1P & 2P)	
Phase barrier		2 sets for 2P (Not available for 1P)	

Necessary tools	
Hex wrench	Screwdriver
mm	mm $\leq \Phi 4.5 - 6$

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Apr. 2020

**HDM2-125**  
Moulded Case Circuit Breaker

**User Manual**

Standard: IEC 60947-2  
Please carefully read the user manual before installing and operating the products, and then keep it properly for further reference.

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The Right Choice!

**Safety Notice**

Please read this manual carefully before installation, operation, maintenance and inspection and install and use this product properly in line with this manual.

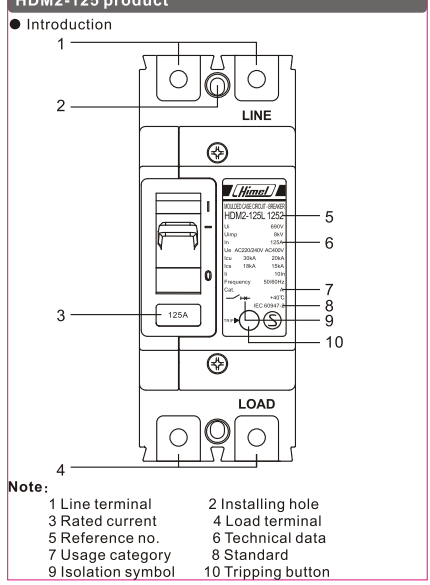
- Danger:**
  - Prohibit to operate the breaker with wet hands;
  - Never touch the live parts in use;
  - Make sure that the power is cut off during maintenance.
- Attention:**
  - The installation, repair and maintenance shall be operated by professional persons;
  - Characteristics of the product have been set when delivery and cannot be adjusted at will during use;
  - Confirm whether the product's voltage, current, frequency and use category meet the requirements before use;
  - To prevent interphase short circuit, the bare wire or copper busbar at the terminal shall be insulated;
  - To test the insulation resistance or power frequency withstand voltage, it is required to disconnect the electronic components between the current loop to prevent damage to the product performance;
  - If the product has breakage or abnormal noise when it is unpacked, stop using it immediately and contact the supplier;
  - Make industrial waste treatment for product scrap. Thank you for your cooperation.

**HDM2-125 Moulded Case Circuit Breaker**

● Package list

No.	Item	Unit	Quantity
1	Circuit breaker	pc	1
2	Interphase barrier	set	2(Not available for 1P)
3	Wiring screw	set	2(4pcs for 2P)
4	Installing screw	set	2
5	User manual	pc	1
6	QC card	pc	1

**HDM2-125 product**



**Main parameters**

Model	Rated operating voltage Ue (V)	Rated insulation voltage Ui (V)	Rated impulse withstand voltage Uimp (kV)	Rated frequency (Hz)	Number of poles	Rated current In (A)	Rated ultimate short circuit breaking capacity Icu (kA)	Rated service short circuit breaking capacity Ics (kA)
HDM2-125	AC220 (240) AC400	AC690	8	50/60	1	10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125	220/240V: 20	220/240V: 15
							220/240V: 30	220/240V: 18
					2		400V: 20	400V: 15

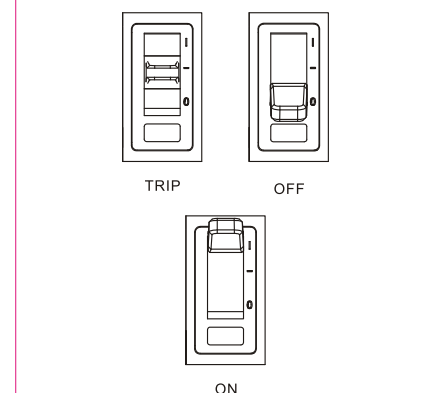
**Conditions of normal Use and installation**

- Conditions of normal use:
  - (1) The ambient temperature ranges between -5°C and +50°C, and the average value in 24h shall not exceed +35°C;
  - (2) Altitude:  $\leq 2000m$ ;
  - (3) The atmospheric relative humidity does not exceed 50% when the maximum ambient temperature is +50°C. It is allowed to have relative higher humidity under lower temperature, e.g. up to 90% for +20°C. For the occasional condensation due to changes of the temperature, preventive measures shall be taken;
  - (4) It shall be used in media without explosion risk, and free of gas or conductive dust which is metal corrosive, insulation destructive.
- Conditions of normal installation:
  - (1) The installation shall be prevented from exposure to rain or snow, with inclination at all directions not exceeding  $\pm 5^\circ$ ;
  - (2) It shall be installed in a place without shock and vibration;
  - (3) Upside terminal connected with power, and downside terminal connected with load;
  - (4) Pollution class: 3;
  - (5) Installation category: III;
  - (6) The surrounding magnetic field strength shall not exceed 5 time of geomagnetic field at any direction.

**Normal storage and transportation:**

- (1) The temperature ranges between -25°C and +55°C,
- (2) The relative humidity does not exceed 95% when the ambient temperature is +25°C
- (3) It shall be without drastic shock and vibration during transportation, and carry carefully, and upside down is not allowed;

**Operating and test**



**Installation of HDM2-125**

- Installation method  
It can be installed vertically or horizontally.

