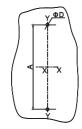


Exposed front cover and toggle handle

Exposed toggle handle

## 4.3 Dimensions of holes on the mounting plate

		C	mit. mmi
Product model HDM2L-	Number of poles	A	ΦD
125	2	129	5
250	2	126.3	5



## 4.4 Wiring capacity and recommended value

Rated current (A)	10	16 20	25	32	40 50	63	80	100	125 140	160	180 200 225	250
Recommended cross section of wire (mm²)		2.5	4	6	10	16	25	35	50	70	95	120

Attention: Please note the outline, installation, and dimensions C, C1 and C2 and corresponding wiring screw diameter in the wiring dimensions, and select the appropriat wiring terminals or bus bar according to the corresponding wiring capacity requirements

## 4.5 Recommended tightening torques of wiring screws

no recommended agreening torques or wi	ing serens	
Product Spec. HDM2L-	125	250
Wiring hex screw	M8	M8
Torque (N.m)	7-10	7-10

Attention: Please tighten the wiring screws according to the recommended torque because too large or too small tightening torque will result in poor contact or damage to

## 4.6 Recommended self-tapping and self-drilling mounting screw (cross recessed countersunk self-tapping and self-drilling screw GB/T15856.2)

Product spec. HDM2L-	125	250
Model and specification of recommended self-tapping and self-drilling screw	ST4.2	X42ST4.2X70 (Without self-lock slot)

Attention: Some models of this product support the use of self-tapping and selfdrilling screws for installation. Only general screws and nuts are provided with the product. Please purchase the self-tapping and self-drilling screws of the corresponding specifications

- The maintenance and repair must be performed by the qualified professions.
- Cut off the product power;
   Please maintain and service the product once a year under normal operating conditions. The maintenance contents refer to the table below

Item	Contents
Appearance	No dust, no condensation; clean if necessary; no damage to the shell.
Terminal connection	Tightened according to the torques listed in the recommended wiring screw tightening torque table of 4.5 without looseness.
Closed / open / trip operations via handle	The handle shall be operated flexibly without blockage. With the self- cleaning contact structure used, open and closed operations can be performed many times to peel the oxide layers of dynamic and static sliver points for any change of contact resistance due to oxidation to reduce the contact resistance.

Unpacking inspectionCheck the product for damage, check the exposed metal for rust, and check the product for defects due to poor transport or storage after unpacking. If found, do not use the product and please contact the supplier without hesitation.

# **HDM2L 250 2P**

Molded case circuit breaker with leakage protection

# **User Manual**



Please carefully read this manual before the installation, operation, run, maintenance, and nspection of the product, and install and operate this product properly in accordance with



•Do not operate the circuit breaker with your wet hands;?Do not touch the live part during

• Cut off the product power before maintenance and repair;?Do not test the product by

Do not connect to the power supply reversely from the load side, because the incorrect wiring will result in lost of function.



## Attention:

 Please install, maintain and repair the product only by the qualified professionals; Because all characteristics of the product have been set in factory, the product cannot be dismantled or adjusted without permission during operation;

Please check whether the rated voltage, rated current, frequency and characteristics of

the product conform with the working requirements before use;

In order to prevent short circuit between phases, a phase partition is configured in factory and must be installed correctly for proper operation; furthermore, the exposed wires or copper bus of the terminals shall be insulated to ensure insulation safety;

•If found damage or abnormal sound when unpacking, please stop the product and contact.

the supplier;

Please dispose the product waste properly for scrapped product. Thanks for your cooperation



- This circuit breaker has passed the insulation test specified in the standard before shipment, and retest of insulation is not recommended for current-leakage product.
   Please test the product again before installation, and disconnect the electronics in the current loop, otherwise the product will be damaged. The test steps are described as

- the shell (the shell is covered with metal foil);

  Undervoltage release connected to main circuit; between the incoming wire and the circuit breaker shell:

Note: If no megohmmeter is provided by user, a power frequency withstand voltage tes can be used to perform an alternative test. By referring to the insulation test method, a

voltage 2000V is applied onto the measurement location for 5s. Please especially follow the information marked with

## 1. About HDM2L 1.1 Packing list

Product model HDM2L-	Number of poles			Phase partition - Qty.	Extended handle	Circuit breaker	Manual (with certificate)	
125	2	M4×40-2	M8×16-4	2	-	1	1	
250	2	M4×60-2	M8×20-4	2	-	1	1	

## 1.2 Working environment and conditions

- ●The protection grade of this product is IP30 (IP100 for wiring terminal)
  ●The pollution level of this product is Level 3.
- The rated working voltage is AC230V
   The altitude of the installation site shall not exceed 2000m; if higher than 2000m, pleas contact the manufacturer;
- The allowable ambient temperature is ranged -25  $^{\circ}$ C to +70  $^{\circ}$ C; the relative humidity (at 25  $^{\circ}$ C ambient temperature) is =95%; the average temperature within 24 hours does not exceed 35°C;
- 1.3 Model & Spec.

Series Name HDM2L	Frame Size	Breaking Capacity	Rated Current	Poles 2	Leakage current	Leakage current	Time delay
	125:125AF (16-125A) 250:250AF (100-250A)	s	016:16A 020:20A 020:25A 032:32A 040:40A 050:50A 063:63A 060:80A 100:100A 125:125A 160:160A 180:180A	2.2P	3C: themal -Magnet with line protection, N pole with switch and protection	B:100/300/500mA	0: No delay 1: 0.1/0.2/0.3s

- 2. Operation and debugging HDM2L

  Turn the handle to the "Trip" position before the shipment of circuit breaker;

  Turn the operating handle to the "Open" position before re-trip;

  Turn the circuit breaker to the "Closed" position;

  With the trip button pressed, the circuit breaker handle shall be return to the "Trip"

- The leakage test button shall be pressed once a month to check the leakage function of
- Select the action value gear and delay time gear of leakage protection properly.

**@ @ @**  $\bigcirc$  $\Diamond$ (7) (T) Outline, installation and wiring dimensions of HDM2L series

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X-X: C	entral	axis	of l	base	,	Y-Y:	Ce	ntra	l axi	s of	han	dle				Uı	nit: r	nm		Ī
Product model	Number								Insta	ıllati	on di	mens	sions							
Model   HDM2L     125   250     1   15   16   17   17   17   17   17   17   17	of poles	L	Ll	L2	L21	L3	W	W1	W2	Н	Н1	H2	НЗ	Н4	Н5	В	С	C1	C2	4
125	2	151	96	50	24.5	50	63	30	59	96	82	73	66	27	27	129	18	7.5	8.5	
250	2	165	96	50.5	29	63	78	35	72	98	82	73.5	70	26	26.5	126.3	21.5	12.5	9	Γ
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clearance of bus, terminal or screw from <8mm. 4.2 Dimensions of holes on the circuit breaker panel

	Cilit.											
	Product model	Number of poles	Exposed	front cove	r and togg	Expos	sed toggle handle					
	HDM2L-		L1	L11	W11	W1	L2	L21	W2			
	125	2	99	49.5	17	66	53	26	62			
	250	2	99	49.5	23	75	53	31	75			