YCB7-125 series Miniature Circuit Breaker OPERATION INSTRUCTION Standard: IEC 60947-2





A Before installing and using this product, please read this manual carefully and pay more attention to safety.

YCB7-125 series Miniature Cirecuit Breaker Instruction

1 General

YCB7-125 miniature circuit breaker(circuit breaker) is applicable to the circuit with AC50 Hz/60Hz, rated voltage of no more than400 V, and rated current from 63A to 125A for overload protection and short circuit protection. This product can be applied to various places such as industrial, commercial, tall buildings, and residential houses.

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2. Operating conditions

- 2.1 Ambient air temperature -5 °C ~+40 °C (with daily average≤35°C)
- 2.2 Altitude:≤2000m.
- 2.3 Air conditions: At mounting site, relative humidity not exceed 50% at the maximum temperature of +40°C. For the wettest month, the maximum relative humidity averaged shall be 90% while the lowest temperature averaged in that month is +20°C, special measures should be taken to occurrence of condensation.
- 2.4 The installation category is III

2.5 The circuit breaker shall be installed on DIN rail EN 60715(35mm), which shall meet theA1.1 TH 35-7.5 steel mounting rail requirements.

2.6 Pollution grade: 3

 2.7 Mounting conditions: inclination between mounting plane and vertical plane not exceed±5°.
2.8 The product should locate in the places where there are no obvious impact and shake.

3. Type designation

3.1 Type designation



3.2 The basic specifications and main technical parameters of the circuit breaker are shown inTable 1; The overcurrent protection characteristics are shown in Table 2.

Table 1

Ui	Uimp	Number of poles	Rated frequency Hz	Rated voltage Ue	Rated Current In	Thermo- magnetic release characteristic	Rated circuit breaking capacity Icn
500V	6kV	1P/2P	50/60	AC230V/ 400V	63A, 80A,	(C)li=8ln,	6kA
		3P/4P		AC400V	100A, 125A	(D)li=12In	

Table 2

Test	Rated current	Туре	Test current	Initial status	Tripping type	Expected result	Remarks
а		C,D	1.05ln	Cold state	t≤1h(ln ≤63A), t≤2h(ln >63A)	Not tripping	Current
ь	63A,	C,D	1.3In	Right after test number a	t≤1h(ln ≤63A), t≤2h(ln >63A)	Tripping	increase steadily within 5s
с	60A,	C,D	2.55In	Cold state	1s <t<120s< td=""><td>Tripping</td><td></td></t<120s<>	Tripping	
d	125A	с	8ln×80%	Cold	t≤0.2s	Not	The power
		D	12ln×80%	state		tripping	supply is turned on
e		с	8ln×120%	Cold	t<0.2s	Tripping	the auxiliary
		D	12ln×120%	state			switvh

Note: The terminology"Cold state" means that the test is performed at the base calibration temperature with no load prior to the test.

- 3.3 Mechanical and Electrical life Electrical life: 1500 times Mechanical life: 10000 times
- 3.4 Wire connection

Before installation, check whether technical parameter of the circuit breaker is in conformity with user 's requirement.

The conductor of power supply shall be connected to the up terminal of circuit breaker.

During installation, the tightening torque is max $3.5 \sim 5N \cdot m$. The sectional area of connecting wire can refer to Table 3.

Table 6

Rated current In A	Conductor cross section S mm ²		
63	16		
80	25		
100	35		
125	50		

4 Overall and mounting dimensions(mm)



5 Ordering instructions

5.1 When ordering, the customer shall indicate the product type, tripping curve, rated current, number of poles, accessories and quantity of the circuit breaker. For example: YCB7-125 3P C100 1000pcs.

5.2 Customers can negotiate separately if you have special requirements .



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