

YCB7-63N series


Miniature Circuit Breaker

OPERATION INSTRUCTION

Standard: IEC 60898-1

CNC

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

YCB7-63N series

Miniature Circuit Breaker Instruction

1.General

YCB7-63N miniature circuit breaker (circuitbreaker) is applicable to the circuit with AC50Hz/60Hz, rated voltage of no more than 400V, and rated current up to 63 A 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 $-25^{\circ}\text{C} \sim +60^{\circ}\text{C}$

2.2 Altitude: $\leq 2000\text{m}$.

2.3 Air conditions: At mounting site, relative humidity not exceed 50% at the maximum temperature of $+40^{\circ}\text{C}$. 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 II, III.

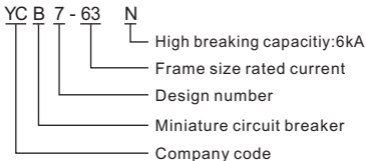
2.5 The circuit breaker shall be installed on DINrail EN 60715 (35mm), which shall meet the A1.1 TH 35-7.5 steel mounting rail requirements.

2.6 Pollution grade: 2

2.7 Mounting conditions: inclination between mounting plane and vertical plane not exceed ± 50 .

2.8 The product should locate in the places where there are no obvious impact and shake.

3. Type designation



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

Table 1

Ui	500V	
Number of poles	1P/2P	3P/4P
Rated frequency Hz	50/60	
Rated voltage Ue	AC230V/400V	AC400V
Rated Current In	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A	
Thermo-magnetic release characteristic	B/C/D	
Rated short circuit breaking capacity Icn	6kA	

Table 2

	Test	Test estcurrent	Initial status	Time limit for tripping or nottripping	Expected result	Testing environment temperature	Remarks
a	BCD	1.13In	cold state	$t \leq 1h$	Not tripping	30°C ~ 35°C	current increase steadily within 5s
b	BCD	1.45In	Right after test number a	$t < 1h$	Tripping		
c	BCD	2.55	cold state	$1s < t < 60s$ ($I_n \leq 32A$) $1s < t < 120s$ ($I_n > 32A$)	Tripping		
d	BCD	3In 5In 10In	cold state	$t \leq 0.1s$	Not tripping	30°C ~ 35°C	Turn on the power supply by closing the auxiliary switch
e	BCD	5In 10In 20In	cold state	$t < 0.1s$	Tripping		Turn on the power supply by closing the auxiliary switch

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

3.2 Mechanical and Electrical lifeshown in Table 3

Table 3

Item	Times	Operation Frequency times/h	Rated current(A)
Electrical life	10000	240	1~32
		120	40 ~ 63
Mechanical life	20000	240	1~63

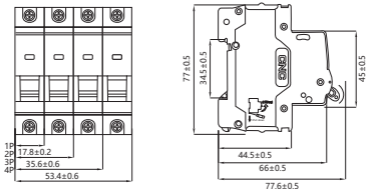
3.3 Wire connection

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 2.5N·m. The sectional area of connecting wire can refer to Table 4.

Table 4

Rated current In A	conductor cross section S mm ²
6	1
10	1.5
16,20	2.5
25	4
32	6
40,50	10
63	16

4. Overall and mounting dimensions



5. Ordering instruction

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: YCB7-63N C25 3P 880pcs.

5.2 Customers can negotiate separately if you have special requirements.

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CERTIFICATE

Product Model : YCB7-63N

Standard : IEC 60898-1

Inspector : **CNC 001**

Production date: Printed on the product
or package.

This product is qualified according
to the delivery inspection

CNC ELECTRIC

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