

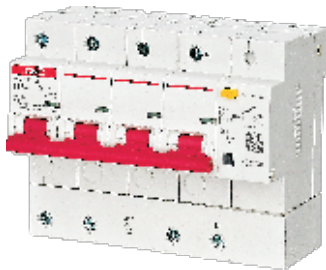
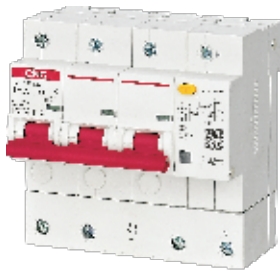
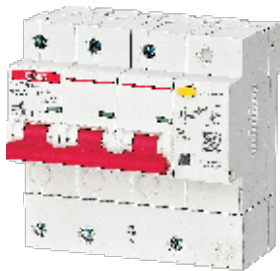
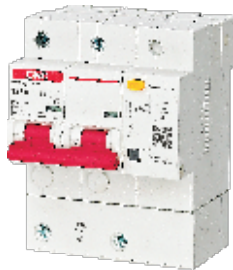
YCB7LE-125

RESIDUAL CURRENT CIRCUIT BREAKER WITH OVER CURRENT PROTECTION

- Micro curved surface design
- On off indicating window
- Anti-crip
- All copper current carrier
- High current frame

YCB7LE-125

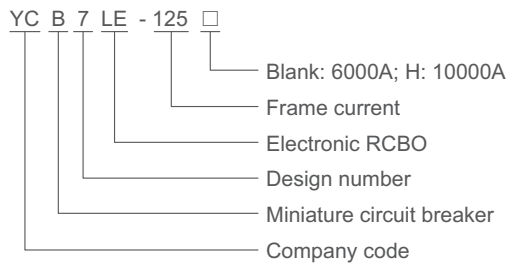
Residual Current Circuit Breaker With Over Current Protection



▼ Product overview

YCB7LE-125 series RCBO is suitable for AC 50Hz, rated voltage 1p 2wires, 2p 230V, 3p, 3p 4 wires, 4p 400V, rated current 63A to 125A lines. When the person get an electric shock or the power grid leakage current exceeds the specified value, the RCBO can automatically cut off the power supply in a very short time to ensure the safety of people and electrical equipment. It can be used to protect the overload and short circuit of the line and motor, and can also be used as the infrequent conversion of the line and infrequent start of the motor.

▼ Product model and meaning



▼ Normal working condition

1. Installation site altitude does not exceed 2000m;
2. Ambient temperature is not higher than +40°C, not lower than -5°C; The average value of 24h does not exceed 35°C;
3. The relative humidity of the air at the installation site under atmospheric condition shall not exceed 50% at a maximum temperature of +40°C; In the wettest months the average temperature does not exceed +25°C and the relative humidity does not exceed 90%;
4. Pollution class:3;
5. Installation category: III;
6. Installation method: Using TH35-7.5 steel rail installation;
7. Installation condition: The external magnetic field near the installation site should not exceed 5 times the geomagnetic field in any direction; MCB should be installed vertically, the tilt angle should not exceed 5°; the handle upward is the power supply position, there should be no significant impact and vibration at the installation site.

▼ Main technical parameters

Frame current	125
Rated voltage Ue(V)	1P+N/2P: 230V; 3P/3P+N/4P: 400V
Rated current In(A)	63, 80, 100, 125A
Frame current/ Rated current Inm(A)	125A
Rated residual operating current IΔn(A)	0.03, 0.05, 0.075, 0.1
Rated residual non-operating current IΔno(A)	0.5IΔn
Delay type limit not drive time	0.06s, 0.1s
Overvoltage protection class	280V±5%
Rated short-circuit capacity Icu(A)	6000
Rated residual connecting and breaking capacity IΔm(A)	2000
Standard	IEC 60947-2
Certification	CE

▼ Rated residual operating current breaking time

Model			I _e (A)	I Δ n(A)	Maximum breaking time and minimum not drive time				Remark
					I Δ n	2I Δ n	5I Δ n	6I Δ n	
Normal type			63 80 100 125	≥ 0.03	0.1	0.07	0.04	0.04	Maximum breaking time
Delay type	Limited not drive time	0.06s		≥ 0.03	0.3	0.2	0.15	0.15	Maximum breaking time
				≥ 0.03	0.13	0.06	0.05	0.04	Minimum not drive time
		0.1s		≥ 0.03	0.6	0.4	0.3	0.2	Maximum breaking time
				≥ 0.03	0.23	0.1	0.06	0.05	Minimum not drive time

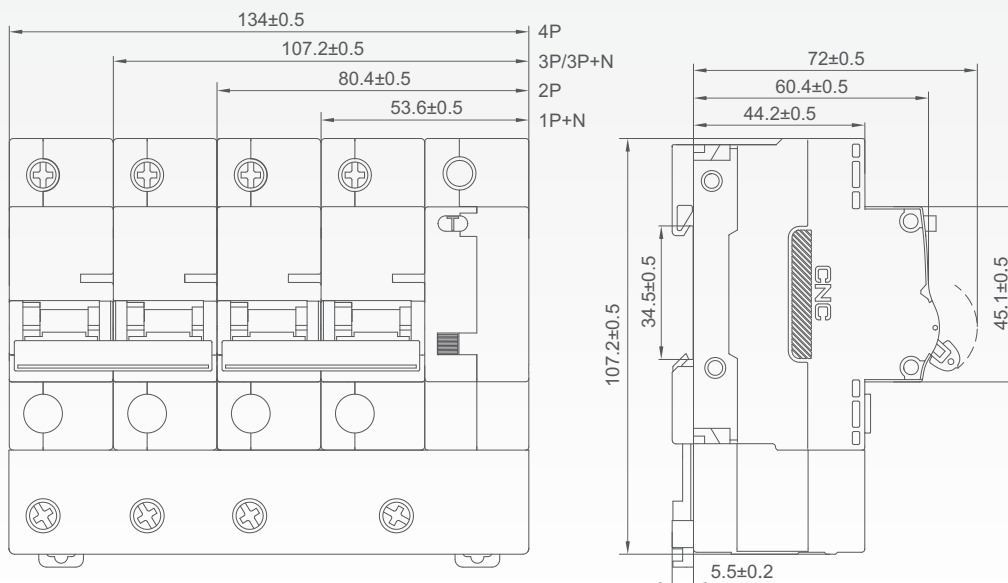
I Δ n \leq 0.03A general circuit breaker can be 0.25A instead of 5I Δ n.

▼ Overcurrent protection characteristics

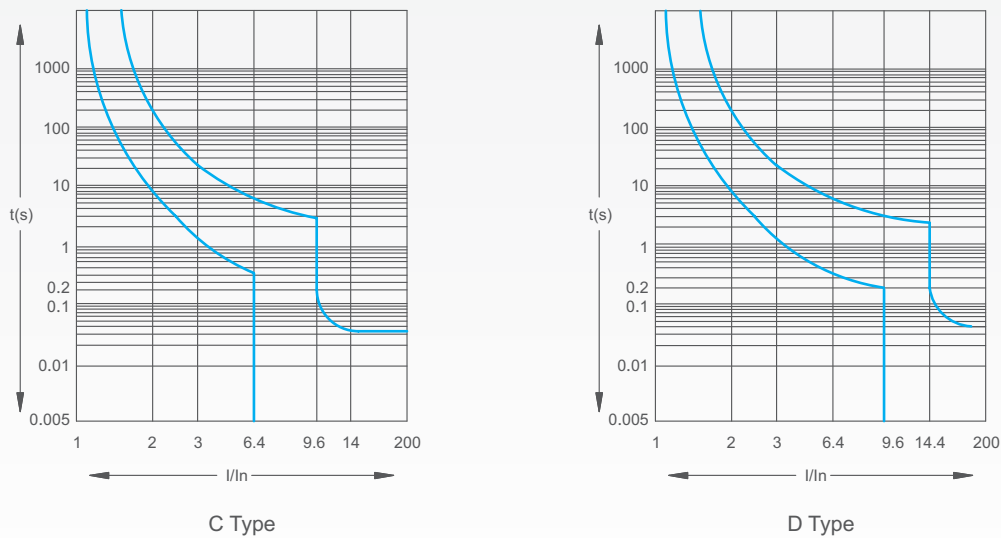
Test	Release type	Test current	Initial state	Release or not release time limit	Expected result	Test temperature	Remark
a	C, D	1.05I _n	Cold state	t \leq 1h (I _n \leq 63A) t \leq 2h (I _n $>$ 63A)	Not release	30°C~35°C	
b	C, D	1.3I _n	Conducted immediately after the a experiment	t $<$ 1h (I _n \leq 63A) t $<$ 2h (I _n $>$ 63A)	Release	30°C~35°C	The current rises steadily within 5s
c	C, D	2.55I _n	Cold state	1s $<$ t $<$ 120s	Release	30°C~35°C	
d	C	8I _n \times 80%	Cold state	t \leq 0.2s	Not release	30°C~35°C	Turn on the current by closing the auxiliary switch
	D	12I _n \times 80%					
e	C	8I _n \times 120%	Cold state	t $<$ 0.2s	Release	30°C~35°C	Turn on the current by closing the auxiliary switch
	D	12I _n \times 120%					

Note: "cold" means that no load before test and the test is carried out at a reference calibration temperature.

▼ Overall and mounting dimensions(mm)



▼ Release characteristics curve



▼ Ordering instruction

1. When ordering, the user should indicate: product name, model, rated current, rated residual operating current, instantaneous release type, pole number, and quantity.
For example: YCB7LE-125 RCBO C 100 2P 30mA 880 sets (indicates 880 sets of YCB7LE-125 RCBO, residual operating current is 30mA, instantaneous release type is C type, pole number is 2P, rated current is 100A).
2. Special requirements of users can be negotiated separately.