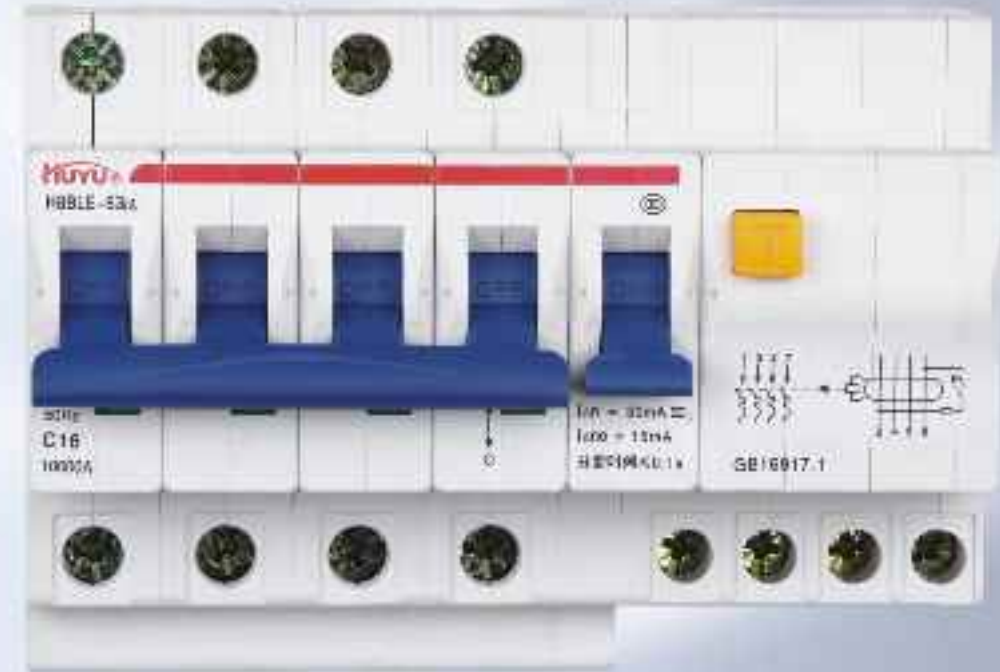




**智新 H8**  
INTELLIGENT NEW H8 SERIES

Excellent Reliable Intelligent Prosperous



**H8BLE**

Residual Current Circuit Breaker

# H8BLE

## Residual Current Circuit Breaker



### Application

The H8BLE series residual current circuit breaker is applied to the circuit of AC 50Hz, rated voltage up to 400V, rated current 63A, with power supply neutral point earthing. It is used in housing, tertiary sector and industry, for personnel and fire protection. Protect installations against fire hazard due to insulation faults, and provide cable and line protection against overload and short-circuits.

The product accords with standards of IEC61009-1 and GB16917.1

### Normal working conditions:

1. Ambient temperature:  $-5^{\circ}\text{C} \sim +45^{\circ}\text{C}$   
Average temperature within 24h:  $\leq +35^{\circ}\text{C}$
2. Altitude:  $\leq 2000\text{m}$
3. Humidity: The air relative humidity under the highest temperature +40% cannot surpass 50%; Under the lowest temperature has a higher relative humidity, the wettest month' average lowest temperature cannot surpass +25%, and the average relative humidity cannot exceed 90%;
4. Pollution degree: class 2
5. Mounting category: II III
6. Outer magnetic should not exceed 5 times of earth magnetic in any direction.
7. Vertical installation, handle up as power on position
8. No obvious shake and impact in mounting site.



# H8BLE

## Residual Current Circuit Breaker

### Main Technical Parameter

#### 1. Residual current breaking time

Type	$I_{\Delta n}$ (mA)	$I_n$ (A)	Max. (Residual current) breaking time (s)			
			$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	250mA
Indirect contact	$>30$	Any	0.2	0.1	0.04	—
Direct contact	$\leq 30$	Any	0.1	0.1	—	0.04

#### 2. Specification

Frame size rated current $I_n$ (A)	Pole	Neutral wire	Rated current $I_n$ (A)	Rated residual operating current $I_{\Delta n}$ (mA)	Rated residual non operating current $I_{\Delta no}$ (mA)	Rated short circuit breaking capacity			Rated residual current making capacity(A)	Over current instantaneous release type
						Voltage (V)	Breaking capacity	$\text{COS } \phi$		
63	1	N	4、6、10、16、20、25、32、40、50、63	30、50、75、100、150、200、300	15、25、38、50、75、100、150	230	10000	0.5	3000	B、C、D
	2					400				
	3									
	4									
40	1	N	4、6、10、16、20、25、32、40	30、50	15、25	230	10000	0.5	3000	B、C、D

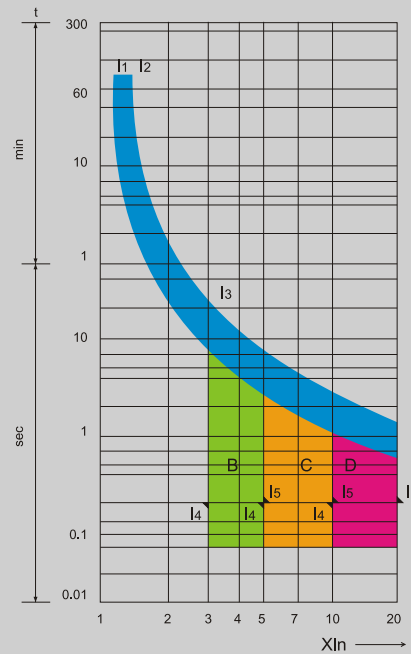
#### 3. protection characteristic of over current release

Release type		B	C	D	Tripping time	Expected result	Ambient temperature
Thermal release	I1	$1.13I_n$	$1.13I_n$	$1.13I_n$	$\leq 1\text{h}$	Non tripping	$30^{\circ}\text{C} \sim 35^{\circ}\text{C}$
	I2	$1.45I_n$	$1.45I_n$	$1.45I_n$	$< 1\text{h}$	Tripping	
Magnetic release	I4	$3I_n$	$5I_n$	$10I_n$	$\leq 0.1\text{s}$	Non tripping	Normal temperature
	I5	$5I_n$	$10I_n$	$20I_n$	$< 0.1\text{s}$	Tripping	

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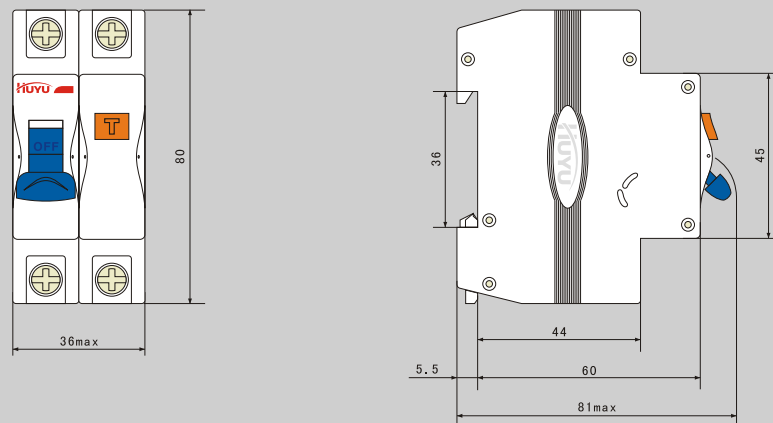
4. Release characteristic curve



5. Besides earth leakage protection, the product also can provide protection for overvoltage caused by grid fault. Overvoltage setting value  $U_{ov}=280V$ , and setting range  $U_{ov}\pm 5\%$ . (Only for circuit with rated voltage AC230V)

### Overall and mounting size

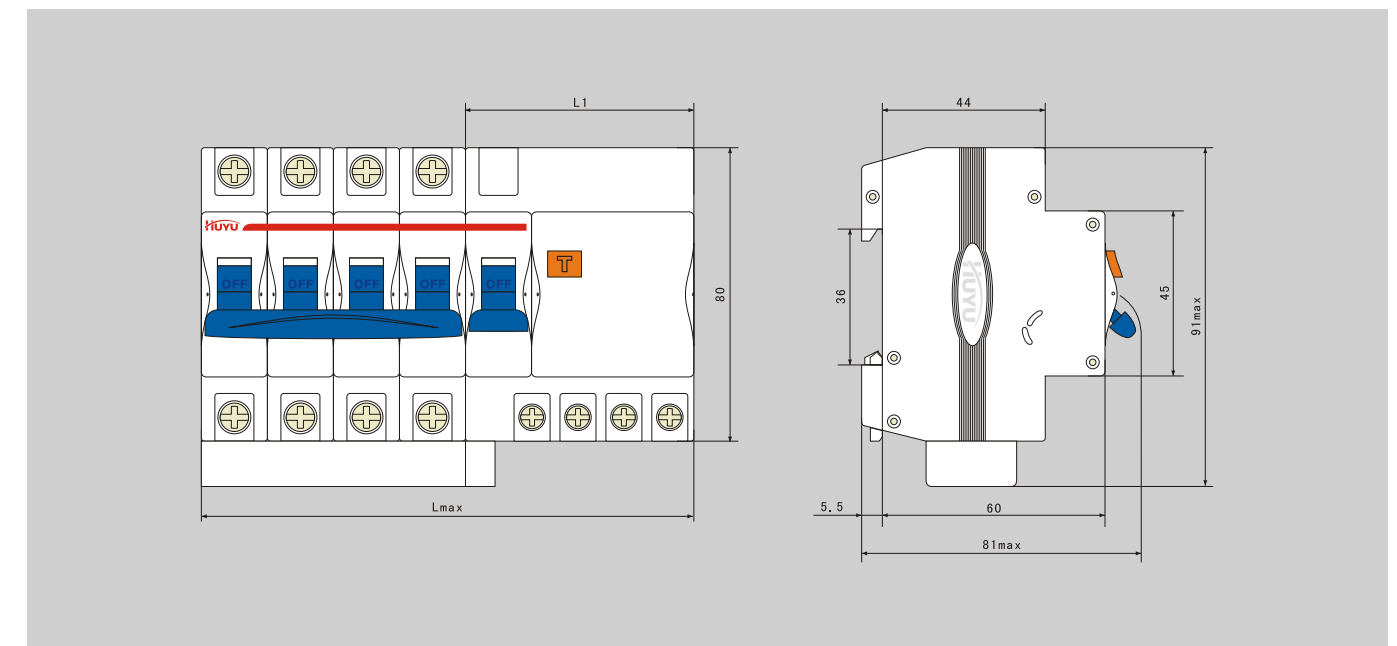
1. H8BLE-40/1N



# H8BLE

## Residual Current Circuit Breaker

2. H8BLE-63



Width	Pole				
	1P+N	2P	3P	3P+N	4P
L1	35.5±0.5	35.5±0.5	46.5±0.5	58±0.5	58±0.5
Lmax	54	72	100	112	130