



**智新H8**  
INTELLIGENT NEW H8 SERIES

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**H8B**

Miniature Circuit Breaker

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## Application

H8B series mini circuit breaker is applicable to the circuit with an alternating current of 50/60 Hz, rated voltage of 230V/400V, and rated current up to 63A for overload and short circuit protection, and also for infrequent operational transformation in the circuit under normal condition.

This product can be applied to various places such as industrial, commercial, and tall buildings, and residential houses.

The product conforms to the standard of IEC 60898-1



## 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  $+40^{\circ}\text{C}$  cannot surpass 50%; Under the lowest temperature has a higher relative humidity, the wettest month's average lowest-temperature cannot surpass  $+25^{\circ}\text{C}$ , and the average relative humidity cannot exceed 90%;

4. Pollution degree: class 2

5. Mounting category: II III

6. 36mm standard rail



## Main Technical Parameter

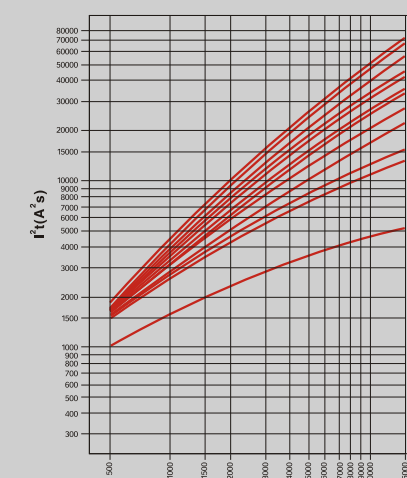
### 1. H8B-63 series MCB basic technical parameter

Frame size rated current	Rated voltage (Ue)	Rated current (In)(A)	Rated limit short circuit breaking capacity Icu	Rated service short circuit breaking capacity Ics	Pole No	Life(times)		Type of instantaneous release and releasing current range:		
		B、C、D				Mechanical lifetime	Electric lifetime	B	C	D
63	50Hz 230/400V	1、2、4、6、10 16、20、25、32	12000A	7500A	1P 1P+N 2P 3P 3P+N 4P	20000	8000	3~5In	5~10In	10~20In
		40、50、63	10000A							

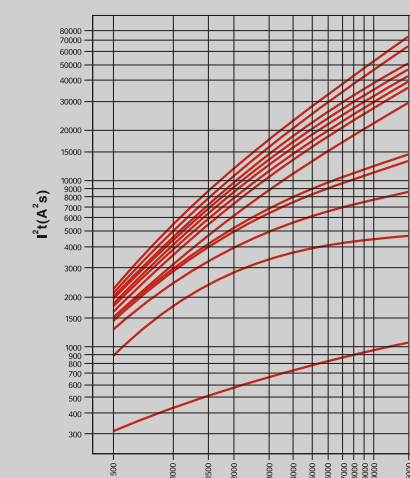
### 2. Tripping characteristic type and application range

Release type	Tripping characteristic	Application range
B	Apply to occasions when quick tripping and low short circuit current are needed; Allow the short time overload $< 3 I_n$ ; Instantaneous tripping range $(10 \sim 20) I_n$	Protection for the load of low short circuit current as well as secondary circuit of transformer, such as power supply, long cable, etc.
C	Apply to most electrical circuit; Allow high short time overload current with MCB non-operation; Allowable high short time overload current up to $5 I_n$ , instantaneous tripping range $(5 \sim 10) I_n$	General protection for electrical circuit
D	Apply to switches with extremely high short time overload current $< 10 I_n$ ; Instantaneous tripping range $(10 \sim 20) I_n$	Protection for load of large starting current and primary circuit of transformer, such as motor, transformer, etc.

### 3. Maximum energy consumption of MCB



Short current (A) B curve, maximum energy consumption of single pole



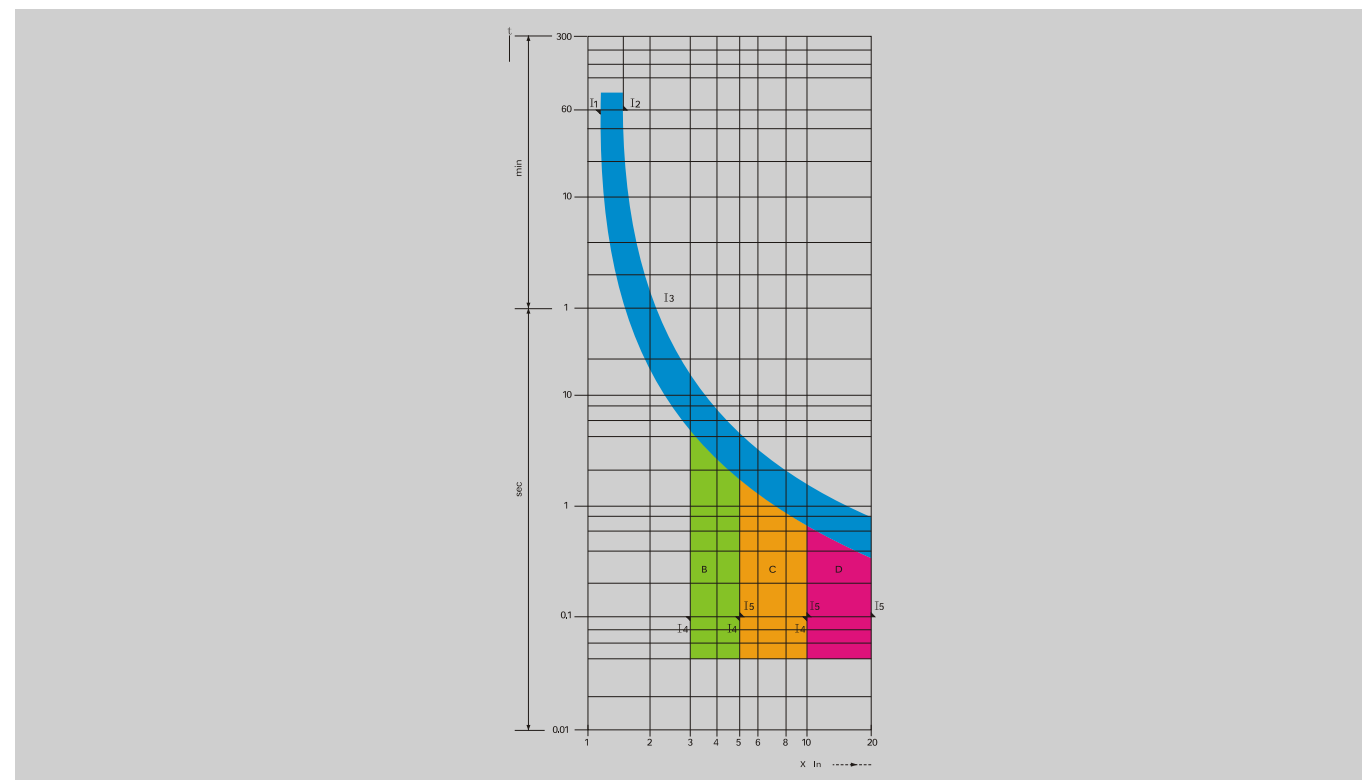
Short current (A) C curve, maximum energy consumption of single pole

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## 4. Over-current tripping characteristic of MCB

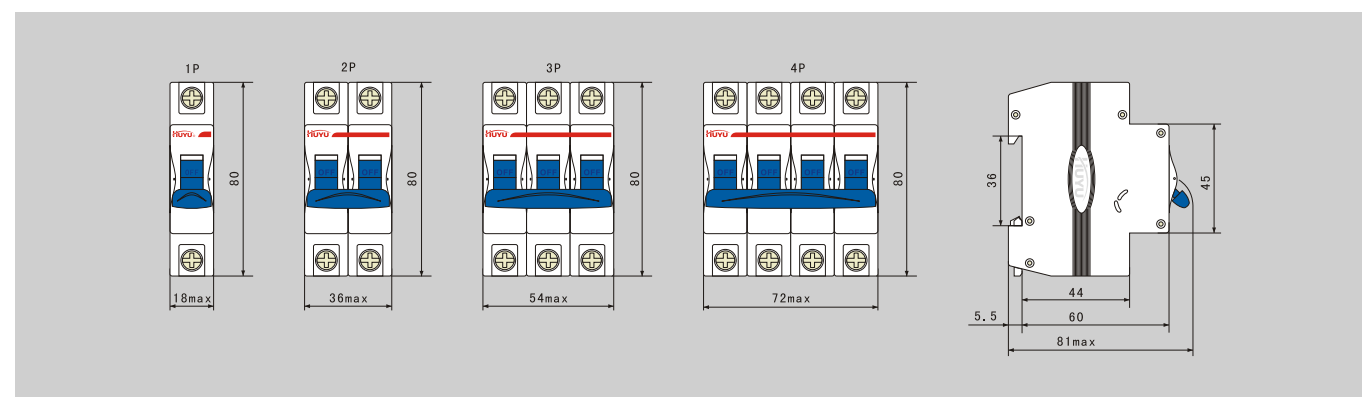
Release type		Test current (A)			Tripping time (t)	Expected result	Remarks
		B	C	D			
Thermal release	I1	1.13In			≤1h	Non tripping	Cold state
	I2	1.45In			<1h	Tipping	Heat state
Magnetic release	I4	3In	5In	10In	≤0.1s	Non tripping	Normal temperature
	I5	5In	10In	20In	<0.1s	Tipping	

## 5. Over-current tripping characteristic curve



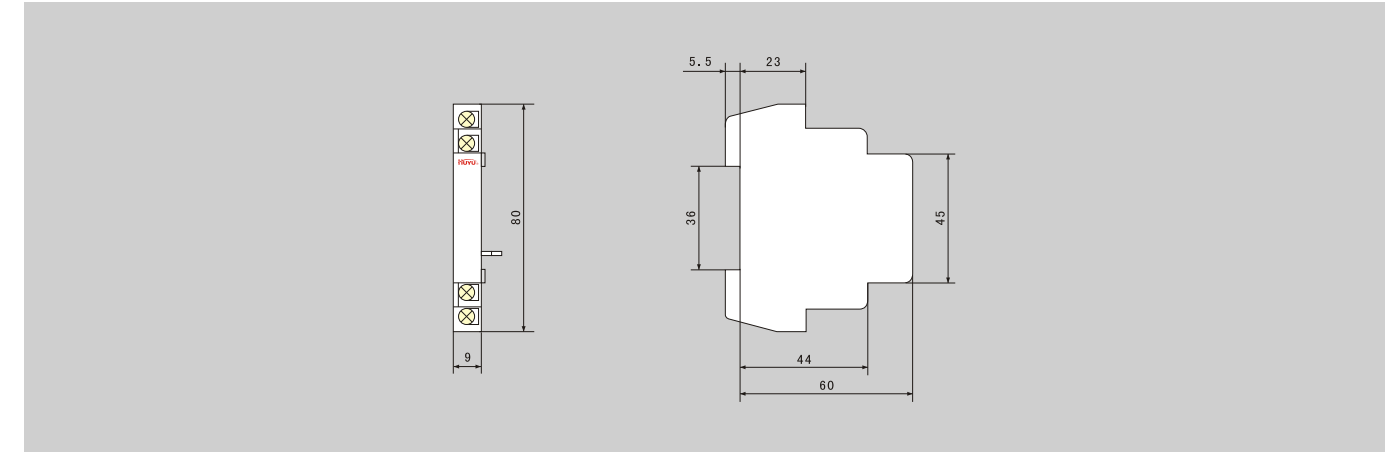
## Overall and mounting size

### 1. H8B-63 MCB

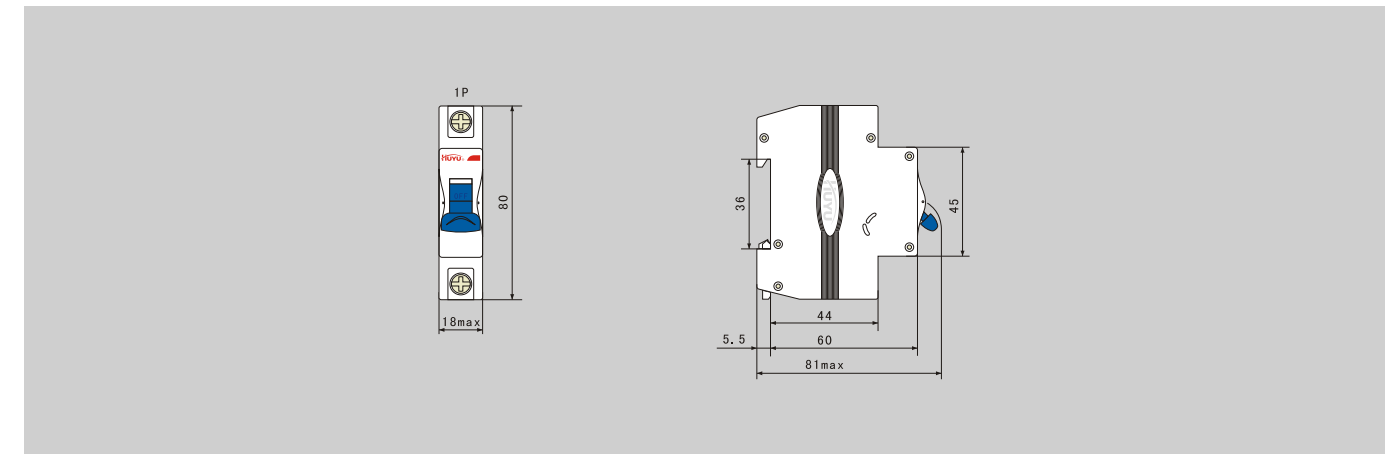


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## 2. H8B-F auxiliary contact



## 3. H8B-FL shunt release, H8B-GY over voltage release, H8B-QY under voltage release, H8B-GQY over and under voltage release



## 4. H8B-FB auxiliary alarm contact

