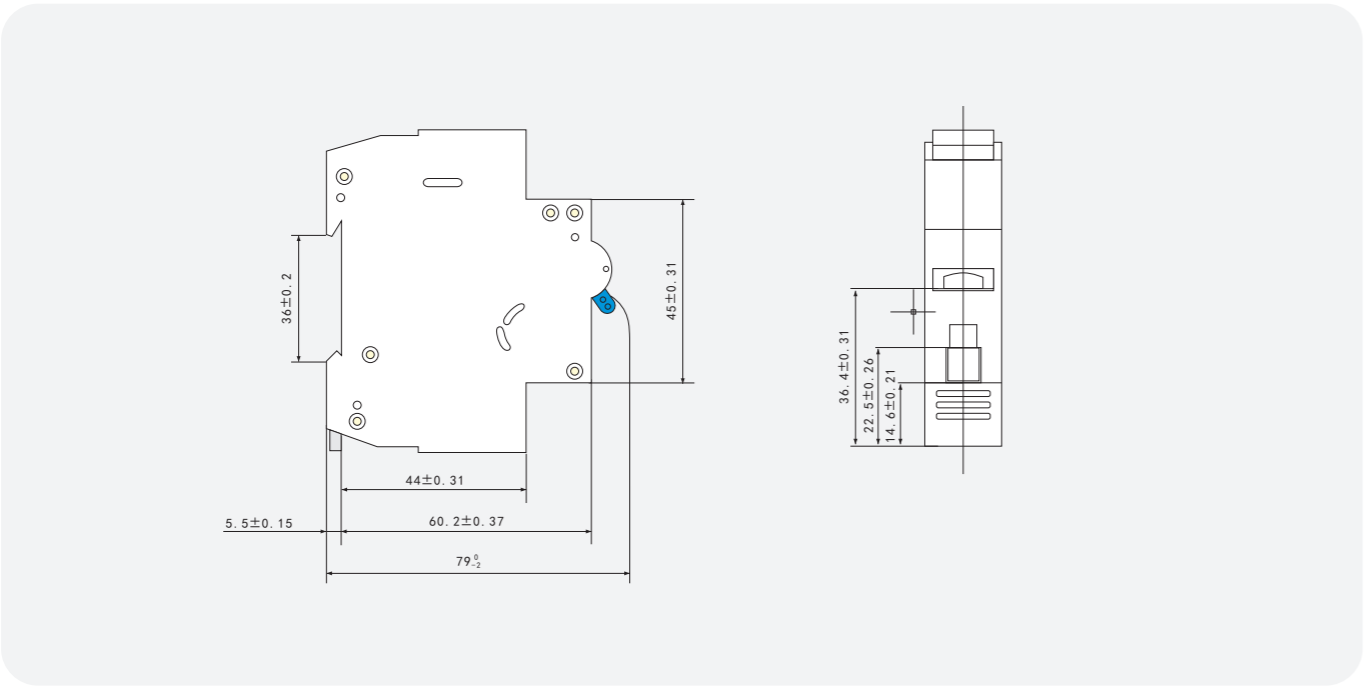


Terminal distribution

HUM18-63Z

series AC / DC miniature circuit breaker



7.Ordering information

When ordering, please explain the circuit breaker type, rated current value, release type, pole number and unit number.  
For example:  
HUM18-63Z AC/DC common used miniature circuit breaker with rated current 40A, release type C, wire and busbar double wiring function, 2P, 100 sets.  
Can be express as: HUM18-63Z/2P C40 100 sets.

Terminal distribution

HUM18-63N

Series Miniature Circuit Breaker



1. Application range

HUM18-63N series miniature circuit breaker (hereinafter referred to as the circuit breaker) is mainly used in power line facilities and electrical equipment of the buildings and similar places of AC 50Hz, rated voltage to 400V, rated current less than 63A for overcurrent protection. It can also be used for frequent on-off operation.  
The product conforms to the standard: GB10963.1、 IEC60898-1.

2.Model and Meaning

HU	M	18	-	63	N	/	1P	C	63
Huanyu Group Co., Ltd	Miniature circuit breaker	Design code		Frame size rated current: 63A	N: Breaking capacity code: breaking capacity is 6000A		Pole number: 1P, 2P, 3P, 3N (3P+N), 4P	Instantaneous tripping characteristics (represented withB, C, D)	Rated working current (A)

3.Normal working condition

- 3.1 The upper limit of ambient air temperature is not more than +40℃, the lower limit is not less than -5℃, and the average value of 24h is not more than +35℃.
- 3.2 Installation altitude≤2000m.
- 3.3 The relative atmospheric humidity at the installation site does not exceed 50% at a maximum ambient temperature of 40℃, a higher relative humidity is allowed at a lower temperature and an average monthly maximum relative humidity is not more than 90%, while the average monthly temperature does not exceeds 25℃, and the condensation on the surface of the product caused by the temperature change should be taken into account.
- 3.4 Class of pollution: class 2.
- 3.5 Installation category: II, III.
- 3.6 The circuit breaker is installed with TH35-7.5 standard rail, the breaker should be installed vertically, and the handle is turned upward to connect the current position.
- 3.7 There should be no obvious impact and vibration at the installation site.

4.Product features

- 4.1 The circuit breaker has good current limiting characteristics, short arcing time, high breaking ability, accurate protection characteristics, long service life and reliable performance.
- 4.2 It has obvious indication of the contact position.
- 4.3 The connection terminal adopts the frame type structure, the wiring is firm and reliable
- 4.4 The accessories of the circuit breaker are complete, and it can be equipped with auxiliary contacts, alarm contacts, shunt release, undervoltage release and overvoltage release, overvoltage and undervoltage release, etc., which provides great convenience for intelligent applications.

5.Main technical parameters

5.1 Basic technical parameters

Frame size	Rated voltage (Ue)	Rated current (In)(A)	Release type	Rated breaking capacity (Icn)(A)	Pole number	Mechanical life	Electrical life
63	50Hz, 230/400V (1P) , 400V (2P, 3P, 3P+N, 4P)	1、 2、 4、 6、 10、 16、 20、 25、 32、 40、 50、 63A	B、 C、 D	6000	1P、 2P 3P、 3P+N 4P	20000	10000

Terminal distribution

HUM18-63N

Series Miniature Circuit Breaker

5.2 Sectional area of copper conductor corresponding to circuit breaker

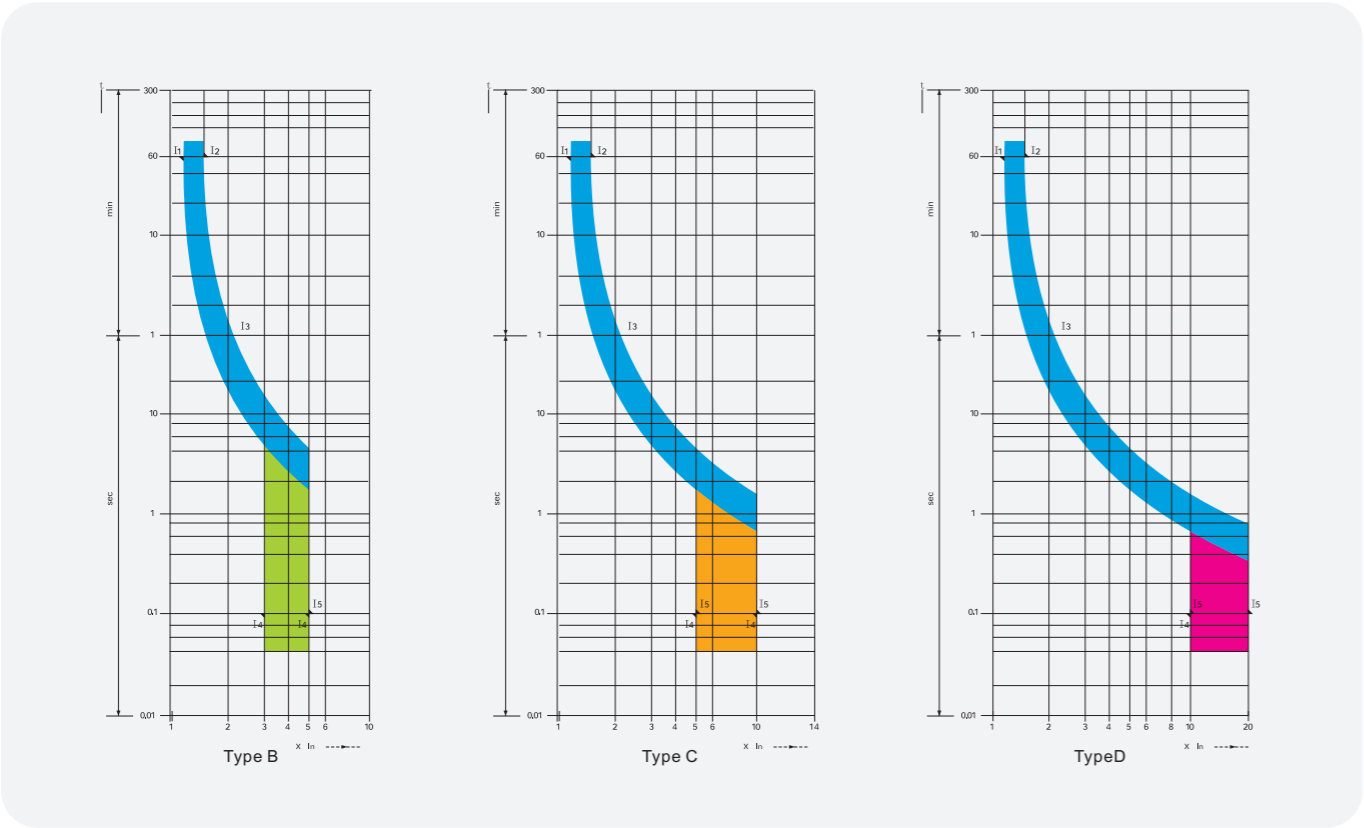
Rated current In(A)	≤6	10	16、20	25	32	40、50	63
Traverse sectional area (mm <sup>2</sup> )	1	1.5	2.5	4	6	10	16

5.3 Tripping characteristics of circuit breaker

Release type		Testing current(A)			Tripping time (t)	Expecting result	Datum temperature
		B	C	D			
Thermal release	I <sub>1</sub>	1.13 I <sub>n</sub>			≤1h	Non- tripping	30℃
	I <sub>2</sub>	1.45 I <sub>n</sub>			<1h	Tripping	
Magnetic release	I <sub>4</sub>	3 I <sub>n</sub>	5 I <sub>n</sub>	10 I <sub>n</sub>	≤0.1s	Non- tripping	Normal condition
	I <sub>5</sub>	5 I <sub>n</sub>	10 I <sub>n</sub>	20 I <sub>n</sub>	<0.1s	Tripping	

Note: Thermal tripping characters in the table is at 30℃-35℃ , according to Table 2 corresponds to the wire connection, the expected results obtained within the specified time. When the product is out of the factory, it is adjusted according to this condition. The rated current should be compensated accordingly if the conditions are different from it. It is suggested that the user should connect corresponding wire according to table 2.

5.4 The tripping characteristic curve of the circuit breaker



5.5 Connection capacity

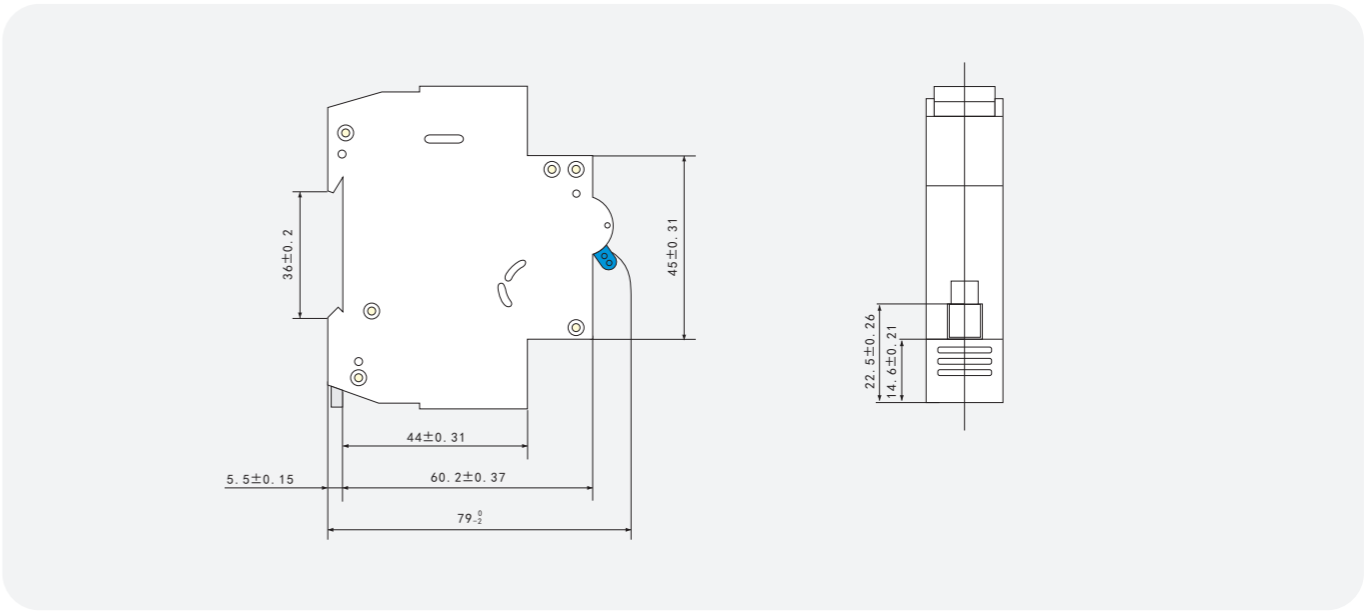
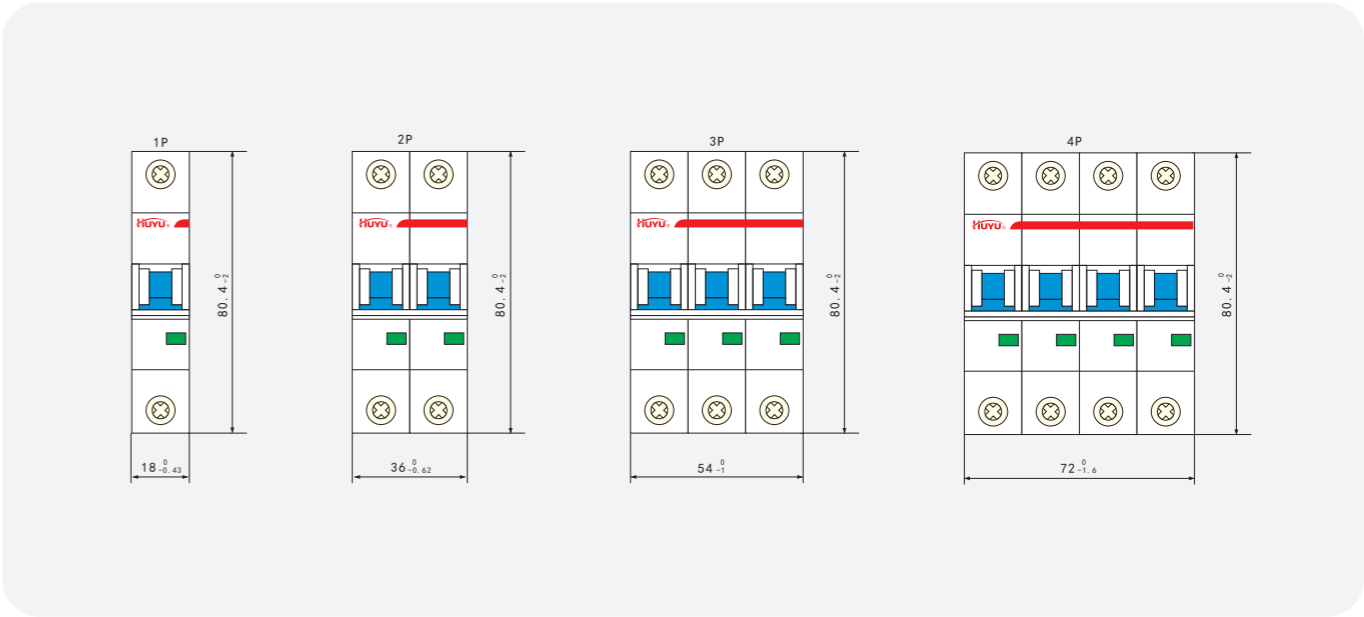
Screw size	Rated torque	Ultimate torque	National standard rated torque	Connection capacity
M5	2.5N·m	4N·m	2N·m	16mm²and below

Terminal distribution

HUM18-63N

Series Miniature Circuit Breaker

6.Overall and mounting dimensions



7.Ordering information

When ordering, please explain the circuit breaker type, rated current value, release type, pole number and unit number.  
For example:  
HUM18-63N miniature circuit breaker with rated current 40A, release type C, 3P, 100 sets.  
Can be express as: HUM18-63N/3P C40 100 sets.