





Excellent Reliable Intelligent Prosperous



H8M

Moulded Case Circuit Breaker

H8M

Series Moulded Case Circuit Breaker



Application

H8M series moulded case circuit breakeris applied to the circuit with frequency of AC50Hz, rated voltage up to 690 V, and rated current up to 800A, for overload, under-voltage, short circuit protection. It can also be used for infrequent motor start.

The product accords with IEC 60947-2.



- 1.Ambient temperature: -5°C~+45°C
- 2.Altitude:≦2000m

3.Humidity: The air relative humidity under the highest temperature $+40^{\circ}$ C cannot surpass 50%; Under the lowest temperature has a higher relative humidity, the wettest month' average lowest temperature cannot surpass $+25^{\circ}$ C, and the average relative humidity cannot exceed 90%;

4.Pollution degree: class3

Mounted at places without explosive risk, without gases that may be corrosive to metal or gases that may cause damage to the insulation, and with little conducting dust

- 5.Mounting category: III
- 6.Breaker terminal "1.3.5.N1" shall connect to power supply; "2.4.6.N2" to load.
- 7. The breaker usually adopts vertical installation, with power supply terminal up, and load terminal down; horizontal installation is also available.



1. Neutral pole type of 4P circuit breaker (Npole)

Code	Туре	Explanation
А	A type	N pole does notinstall over-current release andswitch on all thetime, not switch on/off with otherthree poles.
В	B type	N pole does notinstall over-current release andswitch on/off with other three poles.

HBM Series Moulded Case Circuit Breaker

2. Over-current release type

Code	Туре	Explanation
1	Time delay release	With protection characteristic of over current inverse time delay
2	Instantaneous release	Namely electromagnetic release, with protection characteristic of over current instantaneous operation
3	Duplex release	Both of the functions mentioned above

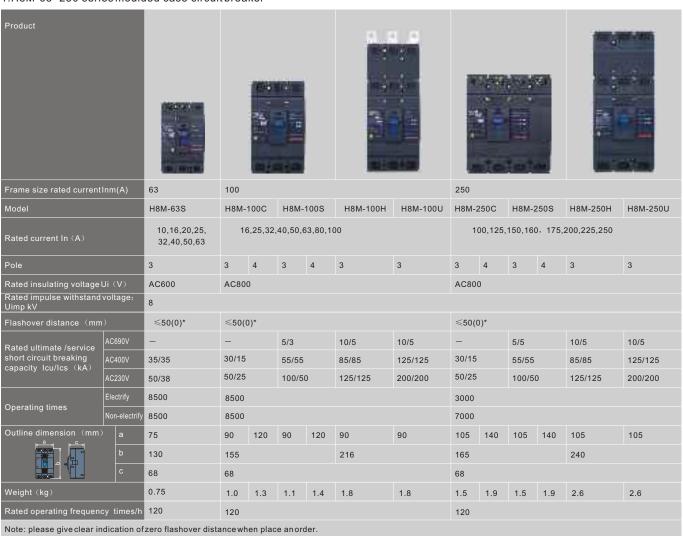
3.Internal accessories code

Frame size rated current Inm(A)	I		II		III	Note	
current inm(A)	Code	Explanation	Code	Explanation	Code	Explanation	
63	0	None	0~2	Auxiliary contact group quantity	0~2	Alarm contact group quantity	
250	1	Shunt release	0~1	group quantity	0~1		
	2	Under voltage release	0~1		0~1		
400	0	None	0~5		0~2		II + III ≤7
	1	Shunt release	0~3		0~2		II + III ≤5
	2	Under voltage release	0~3		0~2		II + III ≤5
	3	Shunt release and under voltage release	0~1		0~1		II + III ≤2
630	0	None	0∼8		0~3		II + III ≤11
800	1	Shunt release	0~6		0~3		II + III ≤8
	2	Under voltage release	0~6		0~3		II + III ≤8
	3	Shunt release and under voltage release	0~3		0~2		II + III ≤5

Series Moulded Case Circuit Breaker

Main technical parameter

1.H8M-63~250 series moulded case circuit breaker



2.H8M-400~630 series moulded case circuit breaker

Product											39		
Frame size rated curren	tInm(A)	400			630	630							
Model		H8M-40	00C	H8M-4	008	H8M-400H	H8M-400U	H8M-6	30C	H8M-6	30S	H8M-630H	H8M-630U
Rated current In (A)		250,300,350,400					400,500,630						
Pole		3	4	3	4	3	3	3	4	3	4	3	3
Rated insulating voltage		AC800					AC800	AC800					
Rated impulse withstand Uimp kV	voltage:	8											
Flashover distance(mr	n)	≤100(0)*					≤100(0)*						
Rated ultimate /service	AC690V	10/10		10/10		15/10	35/35	10/10		15/15		20/15	35/35
short circuit breaking capacity lcu/lcs (kA)	AC400V	45/45		75/75		100/100	125/125	45/45		75/75		100/100	125/125
	AC230V	85/85		100/10	00	150/100	200/200	85/85		100/10	00	150/100	200/200
Operating times	Electrify	2500						2500					
	Non-electrify	4000						4000					
Outline dimension (mm) a	140	185	140	185	140	140	210	280	210	280	210	210
	b	257				297		275				322	
	С	103				200		103			200		
Weight (kg)		5.5	7.5	5.7	7.5	16.7	16.7	9.4	12.5	10.9	14.2	26.7	26.7
Rated operating frequer	60						20						

H8M

Series Moulded Case Circuit Breaker

3. H8M-800~1250 series moulded case circuit breaker





Thermal and electromagnetic over-current release

1. Long time delay release setting current Ir1

The setting current Ir1is the same as rated current In .

The neutral pole of four-poles circuit breaker does not installed with over-current release. The conventional thermal current is the same with other poles.

2. Over-current protection characteristic of circuit breaker for power destribution

Rated current In (A)	Thermal release (ambient temperature +	Electromagnetic release operating current		
	1.05In non operation time(h)cold state	1.30In operation time(h) heatstate		
≤63	>1	≤1	(10±2)In(Note)	
>63	>2	≤2		
Note: The operating current of magnetic relea Reference value: low(4-6)ln; relatively low(6		0.9-14)ln。		

3. Over-current protection characteristic of circuit breaker for motor

Rated current In (A)	Thermal release (ambientte	Electromagnetic release operating current			
	1.01ln non operation time(h) cold state				
In≤63			≤2	2 <tp≤10< td=""><td>(12±2.4)In(Note)</td></tp≤10<>	(12±2.4)In(Note)
63 <in≤250< td=""><td rowspan="2">>2</td><td rowspan="2">≤2</td><td>≪4</td><td>4<tp≤10< td=""><td rowspan="2"></td></tp≤10<></td></in≤250<>	>2	≤ 2	≪4	4 <tp≤10< td=""><td rowspan="2"></td></tp≤10<>	
250 <in≤800< td=""><td>≤8</td><td>6<tp≤20< td=""></tp≤20<></td></in≤800<>			≤8	6 <tp≤20< td=""></tp≤20<>	

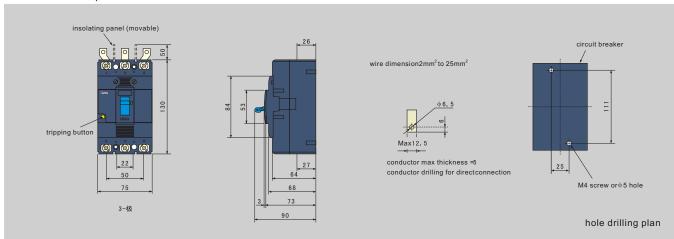
4.Breaker's powerloss

1.2.04.61.04.04								
Frame size rated current Inm (A)	Rated current	Resistance per pole (m Ω)		Total powerloss of three poles(W)				
······ (A)	III (A)			Fixed type		Inserted type ordrawable type		
		C.S type	H.U type	C.S type	H.U type	C.S type	H.U type	
63	63	2. 1	_	25	_	_	-	
100	100	0.83	1. 33	25	40	30	46	
250	250	0.32	0.51	60	96	75	135	
400	400	0.20	0.33	96	158	120	187	
630	630	0.14	0.22	167	262	195	296	
800	800	0.11	0. 18	211	346	260	389	

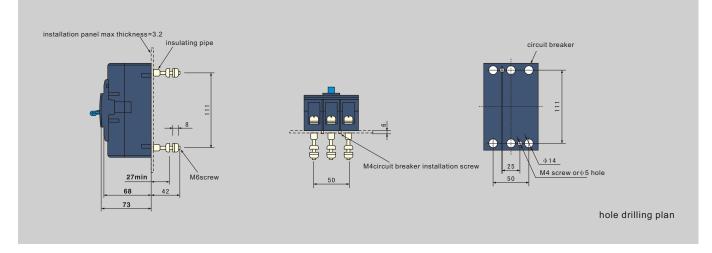
Overall and mounting size

1.H8M-63 overall and mounting size

Front connection plate



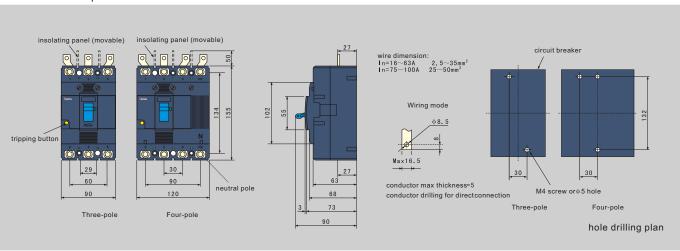
Rear connection plate



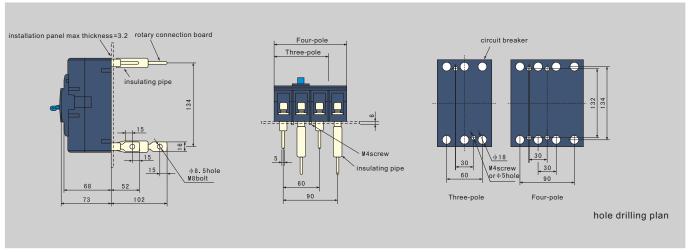
HBM Series Moulded Case Circuit Breaker

2.H8M-100C、H8M-100Soverall and mounting size

Front connection plate



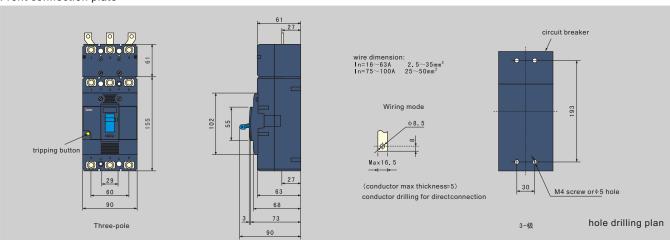
Rear connection plate



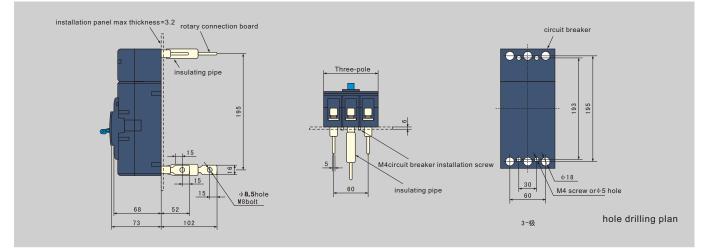
Series Moulded Case Circuit Breaker

3.H8M-100H、H8M-100U overall and mounting size

Front connection plate

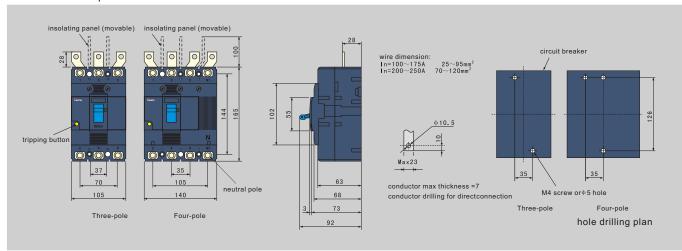


Front connection plate

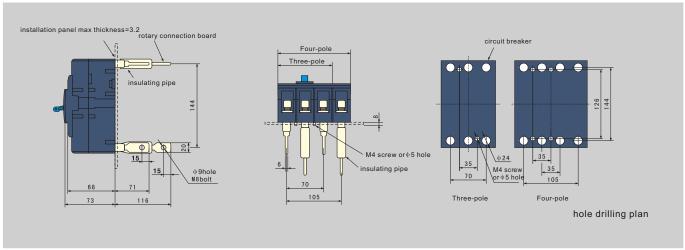


4.H8M-250C, H8M-250S overall and mounting size

Front connection plate



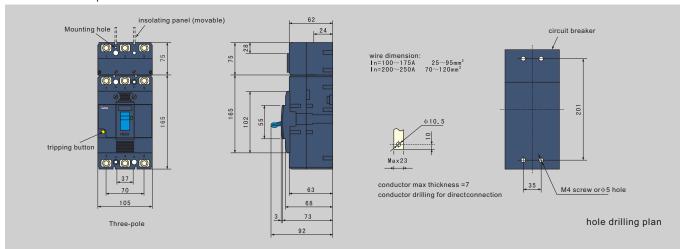
Front connection plate



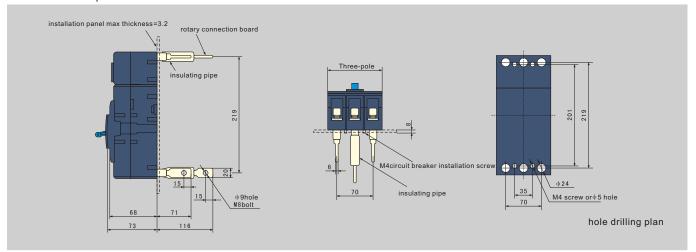
Series Moulded Case Circuit Breaker

5.H8M-250H、H8M-250U overall and mounting size

Front connection plate



Rear connection plate



Accessories

- Accessories are divided into internal accessories and external accessories.
 Internal accessories are: auxiliary contact, alarm contact, shunt release, under-voltage release. All the accessories can be installed in a special accessories box, which has special connecting terminal base.

1.2 Model table for internal accessories

nunt release	Frame size rated current	Specification	Remarks	
hunt release	H8M-63	FL1	AC: 110V, 230V, 400V	
	H8M-100	FL2	DC: 24V、48V、110V	
	H8M-250	FL3		
fitte.	H8M-400	FL4		
1-2-3/70	H8M-630	FL4		
	H8M-800	FL4		
der-voltage release	H8M-63	QY1	AC: 110V, 230V, 400V	
	H8M-100	QY2	DC: 24V、48V、110V	
ROSE WILLIAM TO	H8M-250	QY3		
	H8M-400	QY4		
Casha I Man	H8M-630	QY4		
	H8M-800	QY4		
ciliary contact	H8M-63	F1		
	H8M-100	F2		
	H8M-250	F3		
320	H8M-400	F4		
1	H8M-630	F4		
	H8M-800	F4		
rm contact	H8M-63	B1		
	H8M-100	B2		
	H8M-250	В3		
- T	H8M-400	B4		
Lateral IV	H8M-630	B4		
	H8M-800	B4		

Notice: Please trip the circuit breaker before installation