AiSIKAI®

MCCB

ASKM3

THERMOMAGNETIC NORMAL PROTECTION
MOLDED CASE CIRCUIT BREAKER



ASKM SERIES MCCB
A PRODUCT OF
POWER DISTRIBUTION

ASKM3

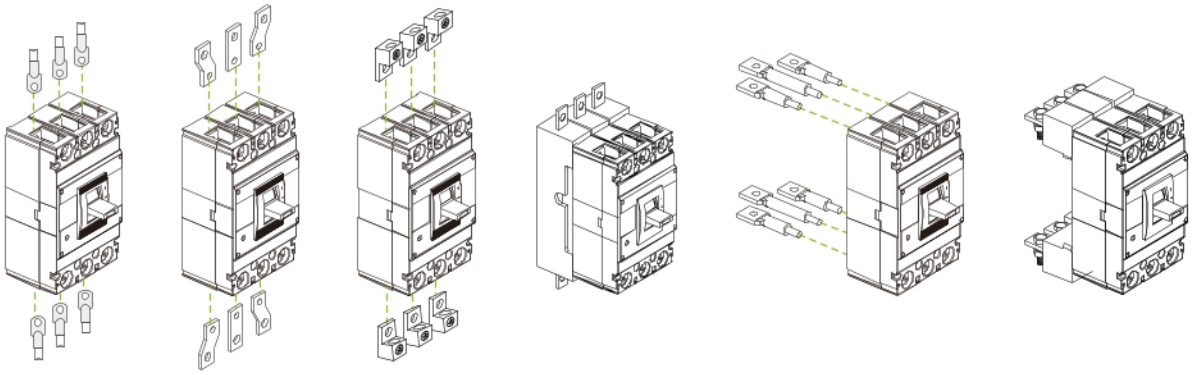
ASKM2 thermomagnetic molded case circuit breaker(hereinafter referred to as MCCB) is a new type of circuit breaker designed and developed by our company using international advanced technology. The rated insulation voltage of MCCB is 1000V. MCCB is suitable for the distribution network of AC 50/60Hz, rated voltage 690V and below, rated current 10A-1250A. MCCB can distribute power and protect circuits and power equipment against faults like overload, under-voltage, short-circuit and under-voltage. MCCB can also be used for infrequent switching of lines and infrequent starting of motors. The products have the characteristics of small volume, high breaking capacity, short flying arc, vibration resistant, etc. The whole series have isolation function.

FRAME



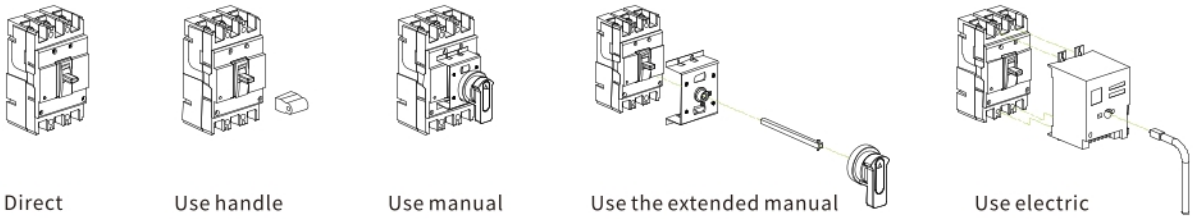
63 100C 160 250 400 630 800

WIRING METHOD



Front wiring | Front extended wiring | Front wiring using cable connectors | Plug in front wring | Rear wiring | Plug in rear wiring

OPERATION METHOD



Direct operation | Use handle | Use manual operating mechanism | Use the extended manual operating mechanism outside the cabinet | Use electric operating mechanism

APPLICABLE STANDARDS

GB14048.2、IEC60947.2

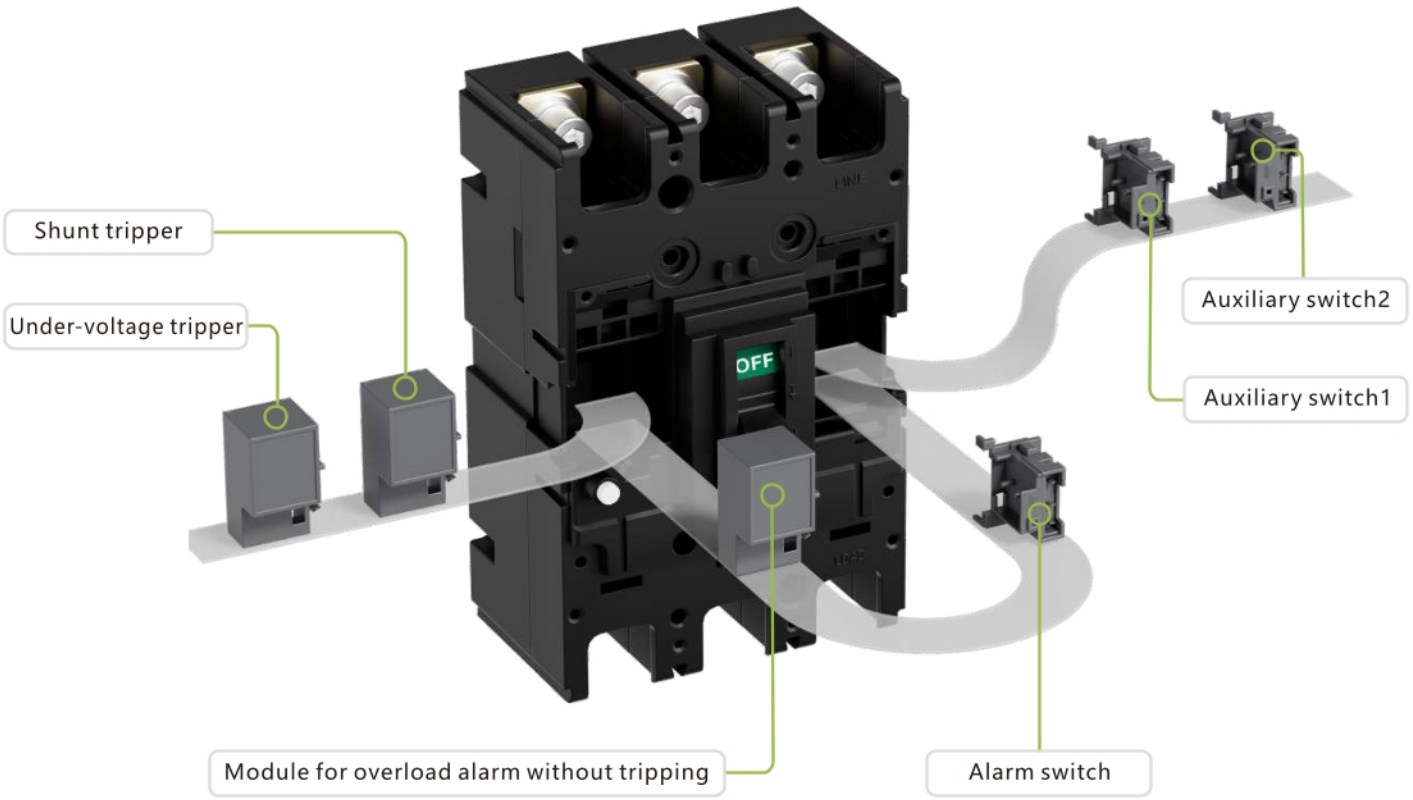


CQC -MCCB ASKM3-63 | CQC -MCCB ASKM3-100C | CQC -MCCB ASKM3-160 | CQC -MCCB ASKM3-250 | CQC -MCCB ASKM3-400 | CQC -MCCB ASKM3-630 | CQC -MCCB ASKM3-800 | CE -MCCB | ISO -9001 | ISO -14001 | ISO -45001

APPEARANCE INTRODUCTION



● External diagram of MCCB



● Internal accessories diagram of MCCB

MODEL SELECTION TABLE

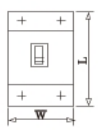
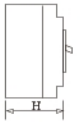
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ASK	M	3	–	125	H	/	P	/	3	3	00	2	B	I	/	TH	/	R	/	100A
Company	Production code	Design serial		Frame rating	Rated ultimate short-circuit breaking capacity		Operation method		No. of poles	Tripper and accessorye	Internal accessories	Usage	Special code of N pole type	Special function code		Use environment		Installation wiring method		Rated current(A)
AISIKAI ELECTRIC	Molded case circuit breaker			63 100C 160 250 400 630 800	C: basic type L: standard M: medium-high H: high		P:electric operating mechanism Z:rotate handle operation No code: direct handle operation		2:2 poles 3:3 poles 4:4 poles	The first digit indicates the tripper type: 2: electromagnetic tripper, only have short-circuit protection 3: composite tripper, have short-circuit protection and overload protection The last 2 digits indicate the internal accessories 00: accessories	00: no accessory 08: alarm contact Refer to details	No code: power distribution 2: motor protection	A B(default) C D	I: overload alarm non-trip function		No code: normal TH: humid tropical		No code: front wiring C: front extended wiring R: rear wiring PF: plug in front wring PR: plug in rear wiring DF: draw out front wiring DR: draw out wiring		10A~800A

Note: the special code of N pole type

1. the special code of N pole type(for 4 poles products only.
   The default type is B if there is no special instructions when ordering)
2. A: N poles does not have over-current tripper. N pole is always closed and does not break/close along with the other three poles.
   B: N poles does not have over-current tripper. N pole breaks/closes along with the other three poles.
   C: N poles has over-current tripper. N pole breaks/closes along with the other three poles.
   D: N poles has over-current tripper. N pole is always closed and does not break/close along with the other three poles.

TECHNICAL DATA SHEET OF ASKM3 THERMOMAGNETIC NORMAL PROTECTION MOLDED CASE CIRCUIT BREAKER

Model		ASKM3-63		ASKM3-100C	ASKM3-160				ASKM3-250				ASKM3-400				ASKM3-630				ASKM3-800		
Frame rating current Inm(AF)		63		100	160				250				400				630				800		
No. of poles		3P/4P		3P/4P	3P/4P				3P/4P				3P/4P				3P/4P				3P/4P		
Rated current In(A)		10 16 20 25 32 40 50 63		10 16 20 25 32 40 50 63 80 100	10 16 20 25 32 40 50 63 80 100 125 140 160				100 125 140 160 180 200 225 250				225 250 315 350 400				400 500 630				400 500 630 700 800		
Rated insulation voltage Ui(V)		1000V		1000V	1000V				1000V				1000V				1000V				1000V		
Rated impulse withstand voltage Uimp(V)		8000V		8000V	12000V				12000V				12000V				12000V				12000V		
Rated operational voltage Ue(V)		AC400V/415V, AC660V/690V																					
Arc distance (mm)		≯50(0) 2)		≯50(0) 2)	≯50(0) 2)				≯50(0) 2)				≯100(0) 2)				≯100(0) 2)				≯100(0) 2)		
Breaking capacity level		L	M	C	C	L	M	H	C	L	M	H	C	L	M	H	C	L	M	H	L	M	H
Ultimate short-circuit breaking capacity Icu (kA)	AC400V/415V	36	55	40	40	50	70	85	40	50	70	100	40	65	70	100	40	70	75	100	75	85	100
	AC660V/690V	10	12	12	12	12	20	20	12	12	20	20	15	15	20	20	20	20	30	30	20	30	30
Service short-circuit breaking capacity Ics (kA)	AC400V/415V	36	55	40	40	50	70	85	40	50	70	100	40	65	70	100	40	70	75	100	75	85	100
	AC660V/690V	10	12	12	12	12	20	20	12	12	20	20	15	15	20	20	20	20	30	30	20	30	30
Use category		A		A	A				A				A				A				A		
Electrical service life (times of operation)	AC400V/415V	8000		8000	8000				8000				7500				7500				7500		
	AC660V/690V	1500		1500	1500				1000				1000				1000				500		
Mechanical service life (times of operation)	without maintenance	20000		20000	20000				20000				10000				10000				10000		
	with maintainable	40000		40000	40000				40000				20000				20000				20000		
Outline dimensions (mm)	W(3P/4P)	75/100		75/100	92/122				107/142				150/198				182/240				210/280		
	L	130		130	150				165				257				270				280		
	H	60.5		60.5	92				90				105.5				110				114.5		

Note: Choose the height of 4mm zero-flashover arc chute for (ASKM2-63L/M, ASKM2-100C), 6.2mm for (ASKM2-160C/L/M/H), 8mm for (ASKM2-250C), 7.5mm for (ASKM2-250L/M/H), 9.3mm for (ASKM2-400C/L/M/H), ASKM2-630C/L/M/H), 9.5mm for(ASKM2-800L/M/H), realizing zero-flashover.

ACCESSORIES CODE TABLE



Design marking



ASKM3

Model description 1:

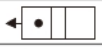
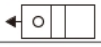
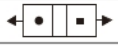
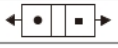
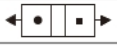
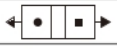
ASKM3-100CP/33002/TH/R/100A

1. normal protection MCCB, 100C A frame, high breaking capacity,electric operation;
2. 3 poles, composite tripper, no accessory, for motor protection;
3. humid tropical type,rear wiring;
4. rated current 100A;

Model description 2:

ASKM3-250L/4300/160A

1. normal protection MCCB, 250A frame, standard breaking capacity, direct manual operation(implicit);
2. 4 poles, composite tripper, no accessory ,for power distribution,no over-current tripper on N pole,N pole breaks/closes along with the other three poles(implicit);
3. normal environment(implicit),front wiring(implicit);
4. rated current 160A;

Code	Accessory	ASKM3-63	ASKM3-100C	ASKM3-160	ASKM3-250	ASKM3-400/630/800
		3P/4P	3P/4P	3P/4P	3P/4P	3P/4P
00	No accessory					
08	Alarm switch					
10	Shunt tripper					
20	Auxiliary switch(1NO1NC)					
	Auxiliary switch(2NO2NC)					
02	Auxiliary switch(2NO2NC)					
30	under-voltage tripper					
40	Shunt tripper+Auxiliary switch(1NO1NC)					
	Shunt tripper+Auxiliary switch(2NO2NC)					
12	Shunt tripper+Auxiliary switch(2NO2NC)					
50	Shunt tripper+ under-voltage tripper					
60	2 sets of auxiliary switches(2NO2NC)					
	2 sets of auxiliary switches(4NO4NC)					
22	2 sets of auxiliary switches(3NO3NC)					
23	2 sets of auxiliary switches(4NO4NC)					
70	under-voltage tripper+ Auxiliary switch(1NO1NC)					
	under-voltage tripper+Auxiliary switch(2NO2NC)					
32	under-voltage tripper+ Auxiliary switch(2NO2NC)					
18	Shunt tripper+ Alarm switch					
28	Auxiliary switch(1NO1NC)+Alarm switch					
	Auxiliary switch(2NO2NC)+Alarm switch					
38	under-voltage tripper+Alarm switch					
48	Shunt tripper+Auxiliary switch(1NO1NC) +Alarm switch					
	Shunt tripper+ Auxiliary switch(2NO2NC) + Alarm switch					
68	2 sets of auxiliary switches(2NO2NC)+Alarm switch					
	2 sets of auxiliary switches(4NO4NC)+ Alarm switch					
05	2 sets of auxiliary switches(3NO3NC)+Alarm switch					
78	under-voltage tripper+ Auxiliary switch (1NO1NC)+Alarm switch					

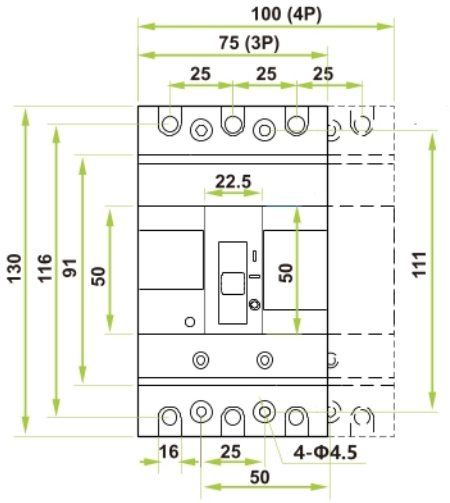
Note: 1. Auxiliary switch(right side), shunt tripper(left side), undervoltage tripper(left side) are also available.

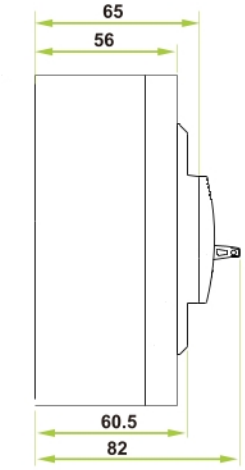
2. In specification of Code 50, above 400 frame, shunt tripper and undervoltage tripper can only assembled on 3P MCCB.

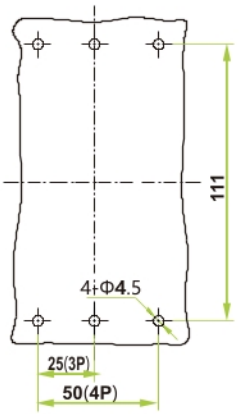
OUTLINE AND INSTALLATION DIMENSIONS

Front wiring

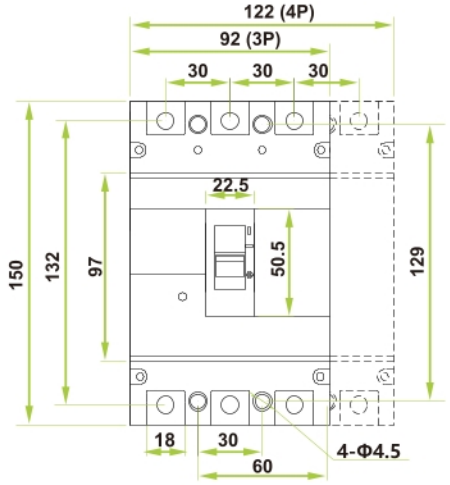
ASKM3-63Frame/ASKM3-100CFrame

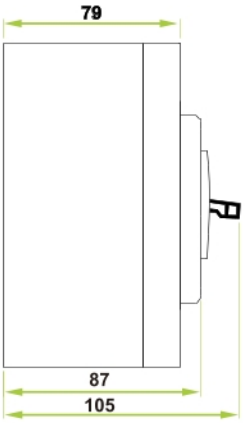






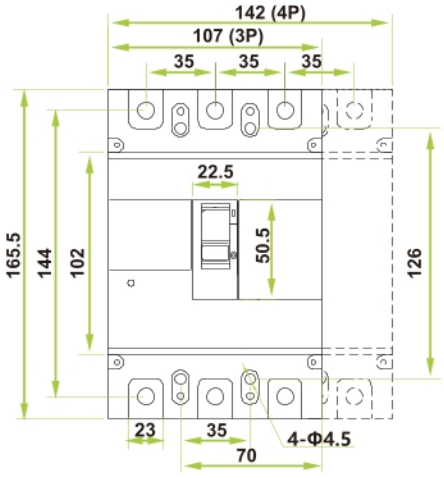
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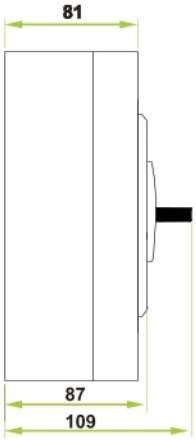




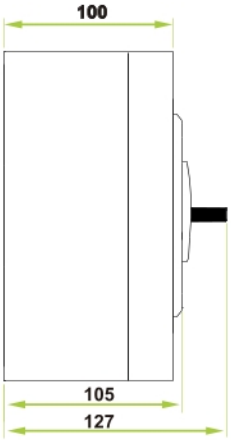


ASKM3-250Frame





L型

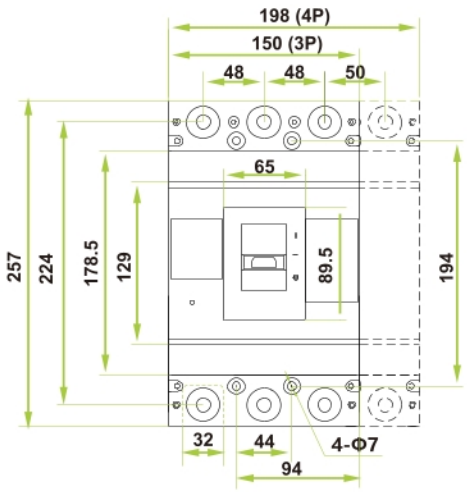


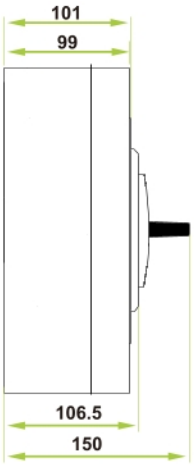
M/H型

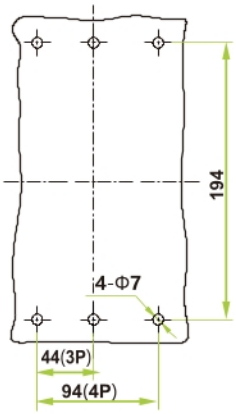


OUTLINE AND INSTALLATION DIMENSIONS

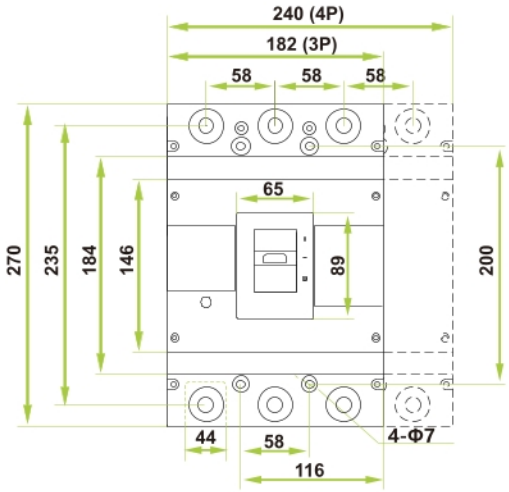
Front wiring
ASKM3-400Frame

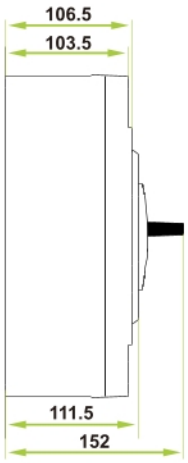


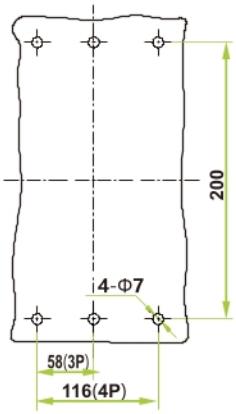




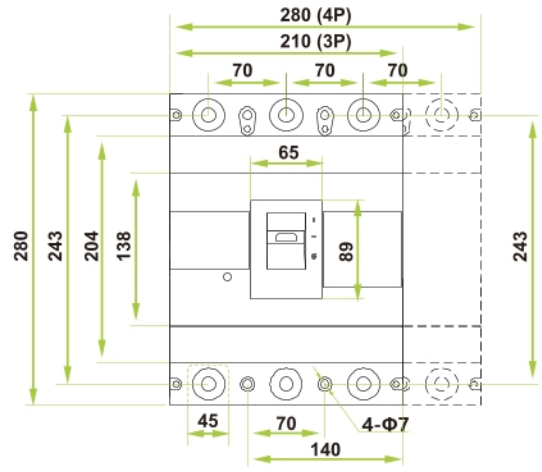
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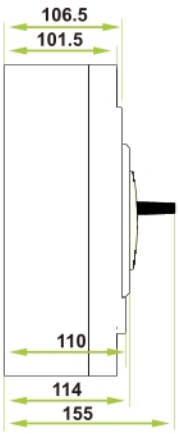


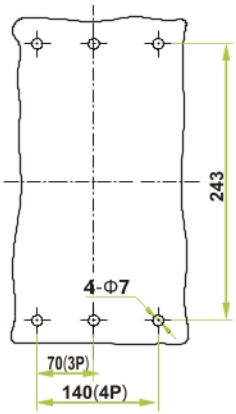




ASKM3-800Frame







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