AiSIKAI®

MCCB

ASKM2L

THERMOMAGNETIC LEAKAGE PROTECTION
MOLDED CASE CIRCUIT BREAKER



ASKM SERIES MCCB
A PRODUCT OF
POWER DISTRIBUTION

ASKM2L

ASKM2L thermomagnetic leakage protection intelligent 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. MCCB is suitable for the distribution network of AC 50Hz, rated insulation voltage 1000V, rated voltage 400V and rated current up to1250A. MCCB can be used for infrequent switching of lines and infrequent starting of motors.

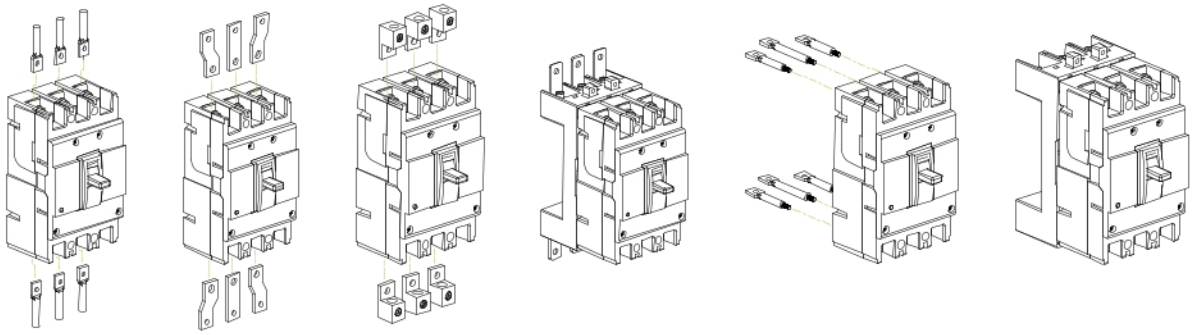
MCCB has overload, short-circuit and under-voltage protection, can protect the line and power supply equipment from damage. Protection can also be provided against fire hazards that may be caused by long-standing ground faults that cannot be detected by over-current protection.

FRAME



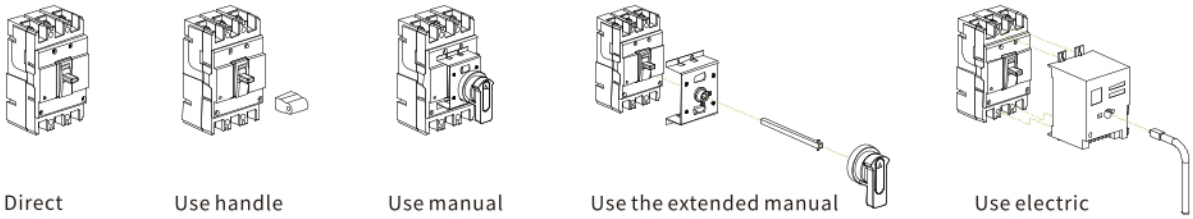
160 250 630 800 1250

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

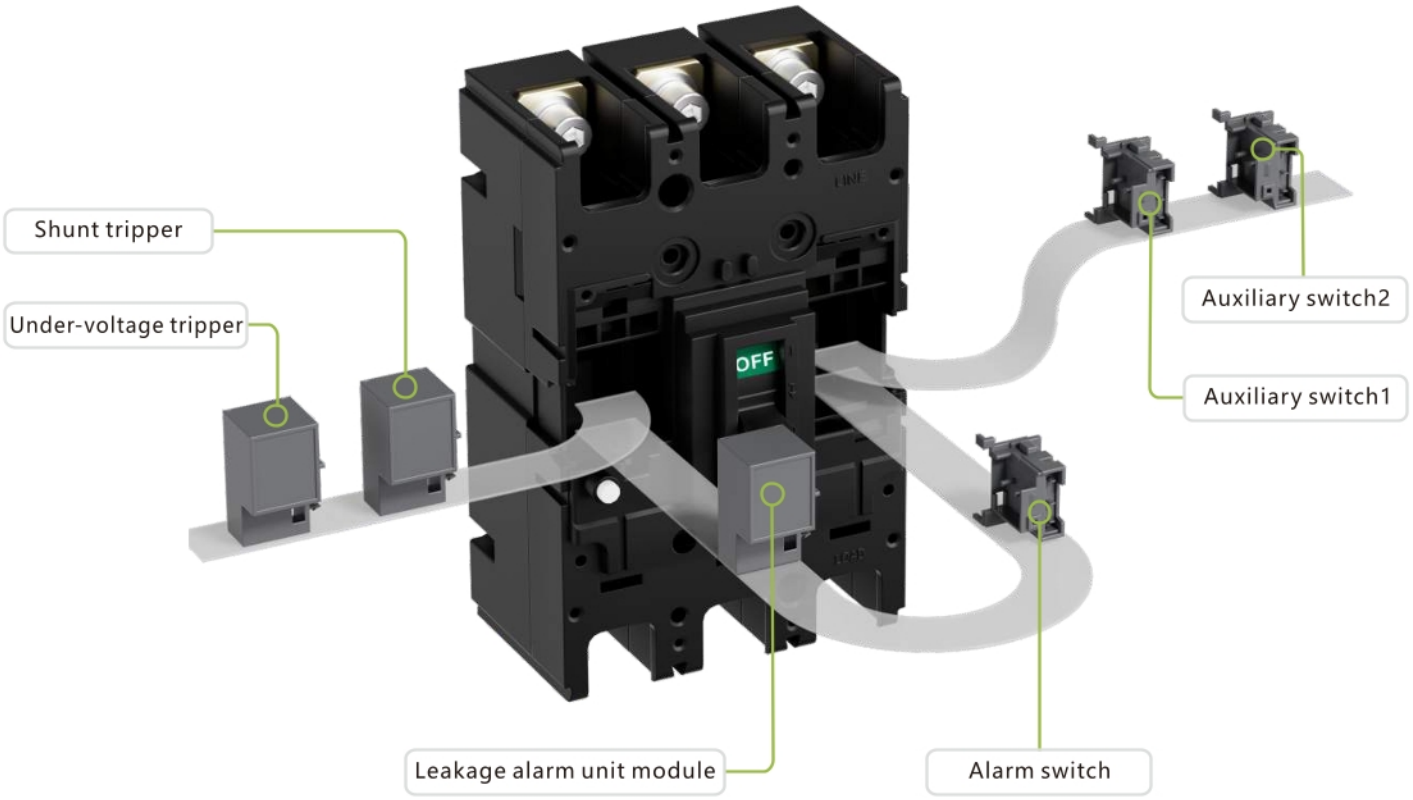


CQC -MCCB ASKM2L-160 | CQC -MCCB ASKM2L-250 | CQC -MCCB ASKM2L-630 | CQC -MCCB ASKM2L-800 | CQC -MCCB ASKM2L-1250 | CE -MCCB | ISO -9001 | ISO -14001 | ISO -45001

APPEARANCE INTRODUCTION



● External diagram of MCCB



● Internal accessories diagram of MCCB

MODEL SELECTION TABLE

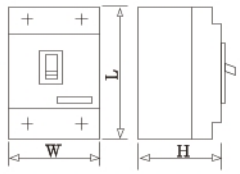
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ASK	M	2	L	160	H	/	P	/	4	3	00	2	B	W	II	/	TH	/	R	/	125A
Company	Production code	Design serial	Function Derivation Code	Frame rating	Rated ultimate short-circuit breaking capacity		Operation method		No. of poles	Tripper code	Internal accessories	Usage	Special code of N pole type	Residual current tripper type	Leakage alarm module code		Use environment		Installation wiring method		Rated current(A)
AISIKAI ELECTRIC	Molded case circuit breaker		Leakage (residual current) protection function	160 250 630 800 1250	M: medium-high H: high		P:electric operating mechanism Z:rotate handle operation No code: direct handle operation		3:3 poles 4:4 poles	2: electromagnetic tripper, only have short-circuit protection 3: composite tripper, have short-circuit protection and overload protection Note: both 2 and 3 have residual current trippers	00: no accessory	No code: power distribution 2: motor protection	A B(default) C D	U:U V: V type is default. "V" can be omitted W:W VA:VA	I: leakage tripping and alarm II:leakage alarm without tripping No code: without above modules		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 DR: draw out wiring		16A~630A

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 ASKM2L THERMOMAGNETIC LEAKAGE PROTECTION MOLDED CASE CIRCUIT BREAKER

Model			ASKM2L-160			ASKM2L-250			ASKM2L-630			ASKM2L-800			ASKM2L-1250		
Frame rating current **Inm(A)**			125			250			630			800			1250		
Rated current **In(A)**			10 16 20 32 40 50 63 80 100 125			125 140 160 180 200 225 250			800 315 350 400 500 630			500 630 700 800			1000 1250		
No. of poles			4			4			4			4			4		
Rated insulation voltage **Ui(V)**			AC 800			AC 800			AC 800			AC 800			AC 800		
Rated operational voltage **Ue(V)**			AC 400			AC 400			AC 400			AC 400			AC 400		
Rated impulse withstand voltage **Uimp(V)**			8000			8000			8000			8000			8000		
Arc distance **(mm)**			⩾50(0)**			⩾50(0)**			⩾100(0)**			⩾100(0)**			⩾100(0)**		
Breaking capacity level			C	L	M	C	L	M	L	M	H	L	M	H	L	M	H
Ultimate short-circuit breaking capacity **Icu(kA)**	**AC400V**		25	35	50	25	35	50	35	50	75	35	50	75	35	50	75
Service short-circuit breaking capacity **Ics(kA)**	**AC400V**		18	25	35	18	25	35	25	35	75	25	35	75	25	35	75
Rated residual action current **In(A)**	AC type residual current protection	**U** type current tripper,non-delay time	0.03/0.1/0.3/0.5			0.03/0.1/0.3/0.5			—			—			—		
		V type current tripper, switchable between non-delay and delay	1.0/0.3/0.5			0.1/0.3/0.5			0.1/0.3/0.5			0.3/0.5/1			0.3/0.5/1		
		W type current tripper, switchable between non-delay and delay	0.3/1/3/10			0.3/1/3/10			1/3/10/30			1/3/10/30			1/3/10/30		
	A typeresidual current protection	**VA** type current tripper, switchable between non-delay and delay	0.1/0.3/0.5			0.1/0.3/0.5			0.1/0.3/0.5			0.3/0.5/1			0.3/0.5/1		
Use category			A														
Rated residual non-action current **Ino (mA)**			$\frac{1}{2}$ In														
Rated residual short-circuit making(breaking) capacity **Im (kA)**			$\frac{1}{4}$ Icu														
Operational performance (times)	Electrical service life(times of operation)		3000			3000			2000			1500			1500		
	Mechanical service life(times of operation)-without maintenance		7000			7000			4000			4000			4000		
	Mechanical service life(times of operation)-with maintainable		20000			20000			20000			20000			20000		
Outline dimensions (mm)		W(4P)	120			140			185			280			280		
		L	155			165			257			276			275		
		H(not including handle)	76.6			77			113.3			114			105		

Note: Choose the height of 6mm zero arc cover for 125 frame, 7.5mm for 250 frame, 9.3mm for 400 frame, 9.5mm for 800frame, realizing zero arc.

ACCESSORIES CODE TABLE



Design marking



ASKM2L

Model description 1:

ASKM2L-160HP/4300/2BWIITH/R,In=125A

1. leakage protection molded case circuit breaker, 160A frame,high breaking capacity,electric operation;
2. 4poles, composite tripper, no accessory;
3. for motor protection, no over-current tripper on N pole, W type residual current tripper, leakage alarm without tripping(leakage alarm and tripping is optional)humid tropical type;
4. rear wiring, rated current 125A;

Model description 2:

ASKM2L-250M/3300/A,In=250A

1. leakage protection molded circuit breaker, 250A frame, medium-high breaking capacity,direct manual operation(implicit);
2. 3 poles, composite tripper, no accessory;
3. for power distribution, no over-current tripper on N pole, N pole is always closed and does not break/close along with the other three poles;
4. V type residual current tripper, no leakage alarm module, normal environment(implicit);
5. front wiring(implicit), rated current 250A;

Model		ASKM2L-160	ASKM2L-250	ASKM2L-630	ASKM2L-800	ASKM2L-1250
No. of poles		4	4	4	4	4
Code	Accessory					
00	No accessory					
08	Alarm switch					
10	Shunt tripper					
20	Auxiliary switch					
30	under-voltage tripper					
40	Shunt tripper+Auxiliary switch					
60	2 sets of auxiliary switches					
70	Auxiliary switch+under-voltage tripper					
18	Shunt tripper+Alarm switch					
28	Auxiliary switch+Alarm switch					
38	under-voltage tripper+Alarm switch					
48	Shunt tripper+Auxiliary switch					
68	2 sets of auxiliary switches +Alarm switch					
78	Auxiliary switch+ under-voltage tripper +Alarm switch					
80	2 sets of auxiliary switches +Shunt tripper					

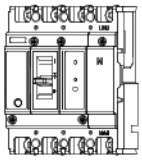
Note: 1. Auxiliary switch(right side), shunt tripper(left side), undervoltage tripper(left side) are also available.

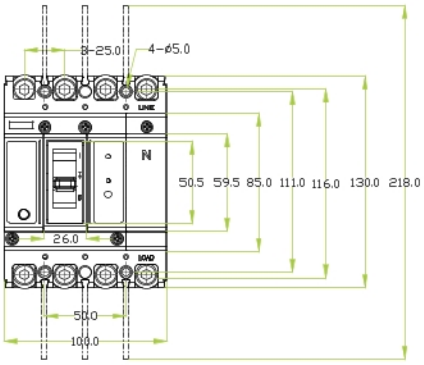
2. In specification of Code 50, above 400 frame, shunt tripper and undervoltage tripper can only assembled on 3P MCCB.

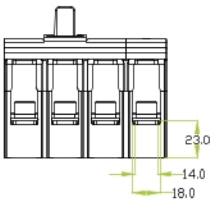
OUTLINE AND INSTALLATION DIMENSIONS

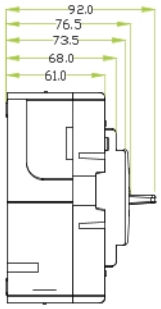
ASKM2L-125Frame Front wiring

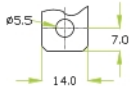
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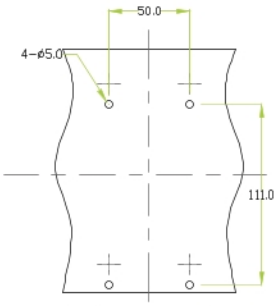




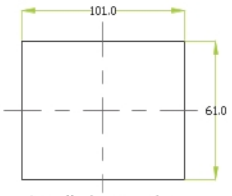




Copper bars dimensions



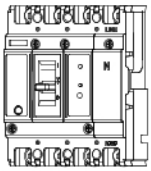
Installation dimensions

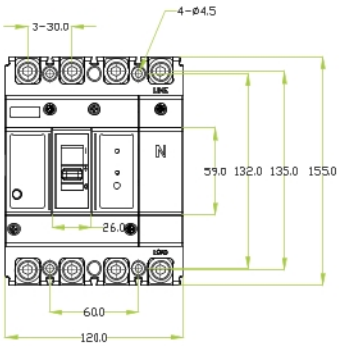


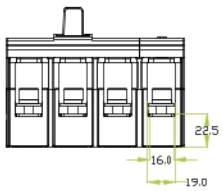
Installation opening dimensions of operation panel

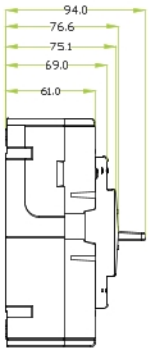
ASKM2L-160Frame Front wiring

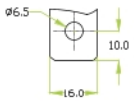
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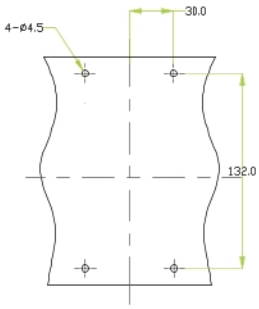




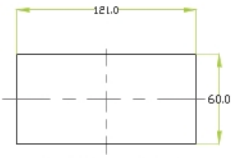




Copper bars dimensions



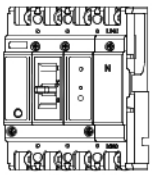
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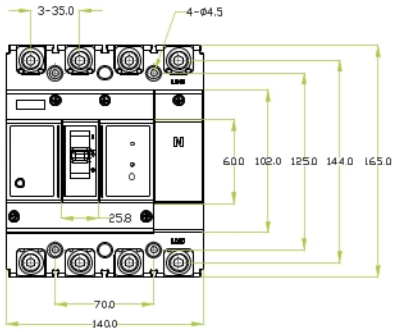


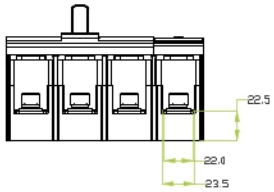
Installation opening dimensions of operation panel

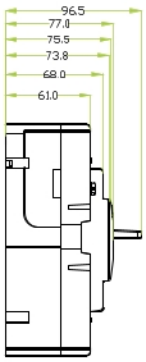
ASKM2L-250Frame Front wiring

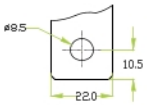
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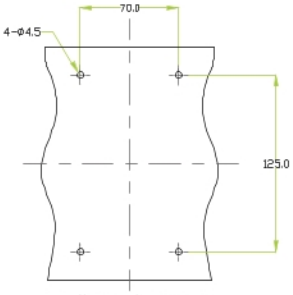




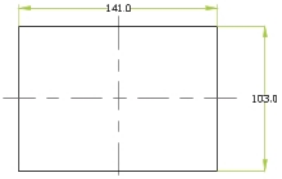




Copper bars dimensions



Installation dimensions

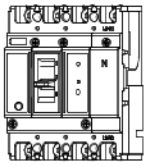


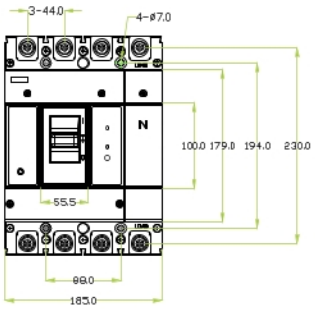
Installation opening dimensions of operation panel

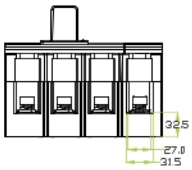
OUTLINE AND INSTALLATION DIMENSIONS

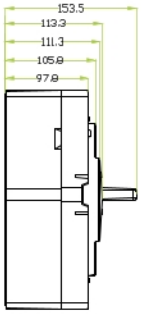
ASKM2L-630Frame Front wiring

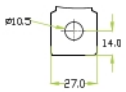
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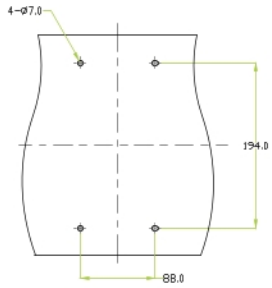




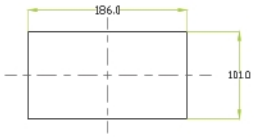




Copper bars dimensions



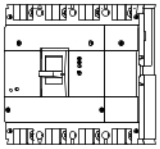
Installation dimensions

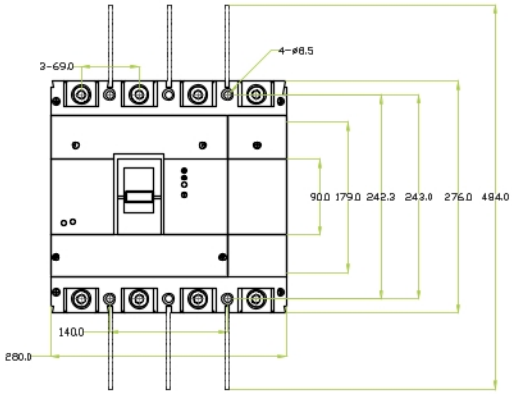


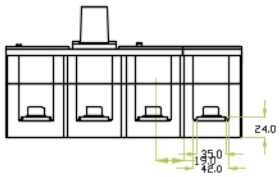
Installation opening dimensions of operation panel

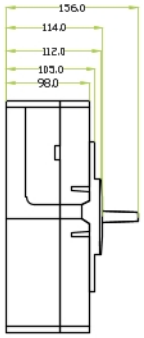
ASKM2L-800Frame Front wiring

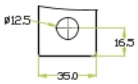
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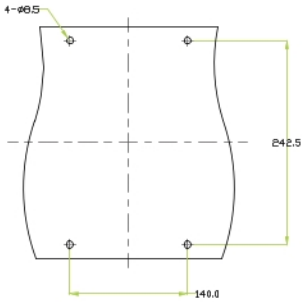




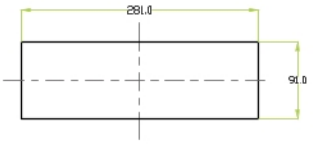




Copper bars dimensions



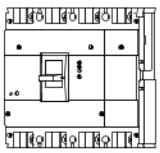
Installation dimensions

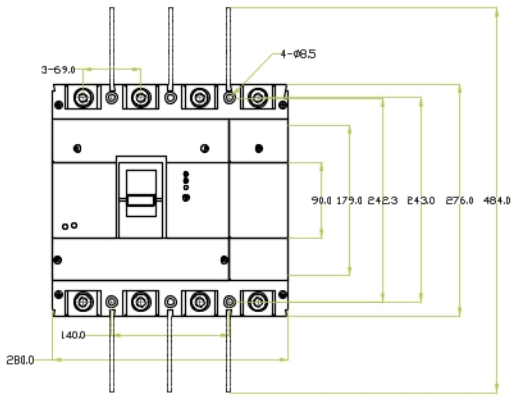


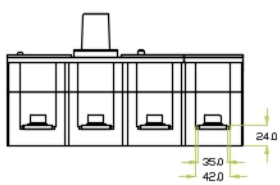
Installation opening dimensions of operation panel

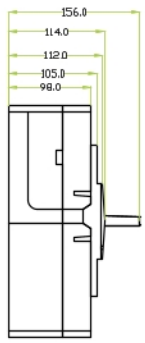
ASKM2L-250Frame Front wiring

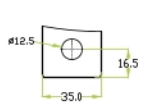
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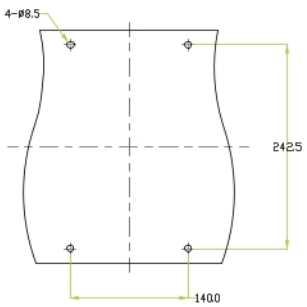




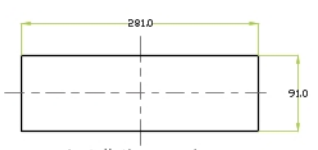




Copper bars dimensions



Installation dimensions



Installation opening dimensions of operation panel

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