

MCCB

ASKM1L

THERMOMAGNETIC LEAKAGE PROTECTION
MOLDED CASE CIRCUIT BREAKER



ASKM1L

ASKM1L 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 to 630A. 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



125



250

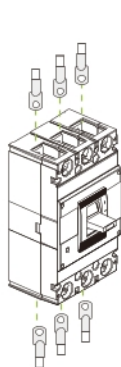


400

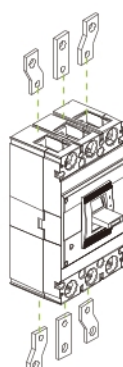


630

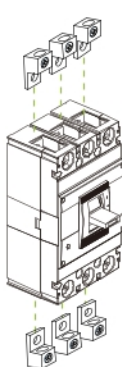
WIRING METHOD



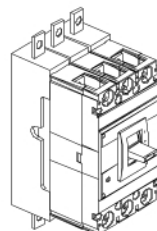
Front wiring



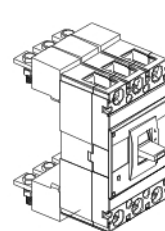
Front extended wiring



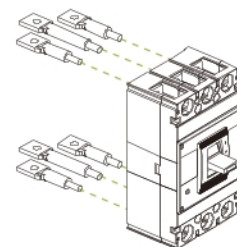
Front wiring using cable connectors



Plug in front wiring

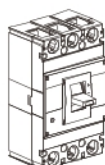


Plug in rear wiring

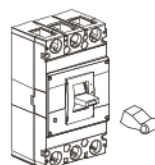


Rear wiring

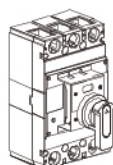
OPERATION METHOD



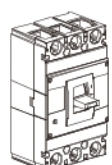
Direct operation



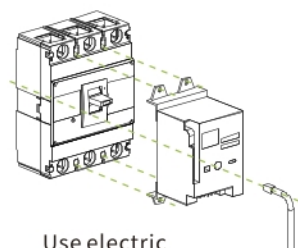
Use handle



Use manual operating mechanism



Use the extended manual operating mechanism outside the cabinet



Use electric operating mechanism

APPLICABLE STANDARDS

GB14048.2, IEC60947.2



CQC
CQC-MCCB
ASKM1L-125



CQC
CQC-MCCB
ASKM1L-250



CQC
CQC-MCCB
ASKM1L-400



CQC
CQC-MCCB
ASKM1L-630



CE
CE-MCCB



ISO
ISO-9001

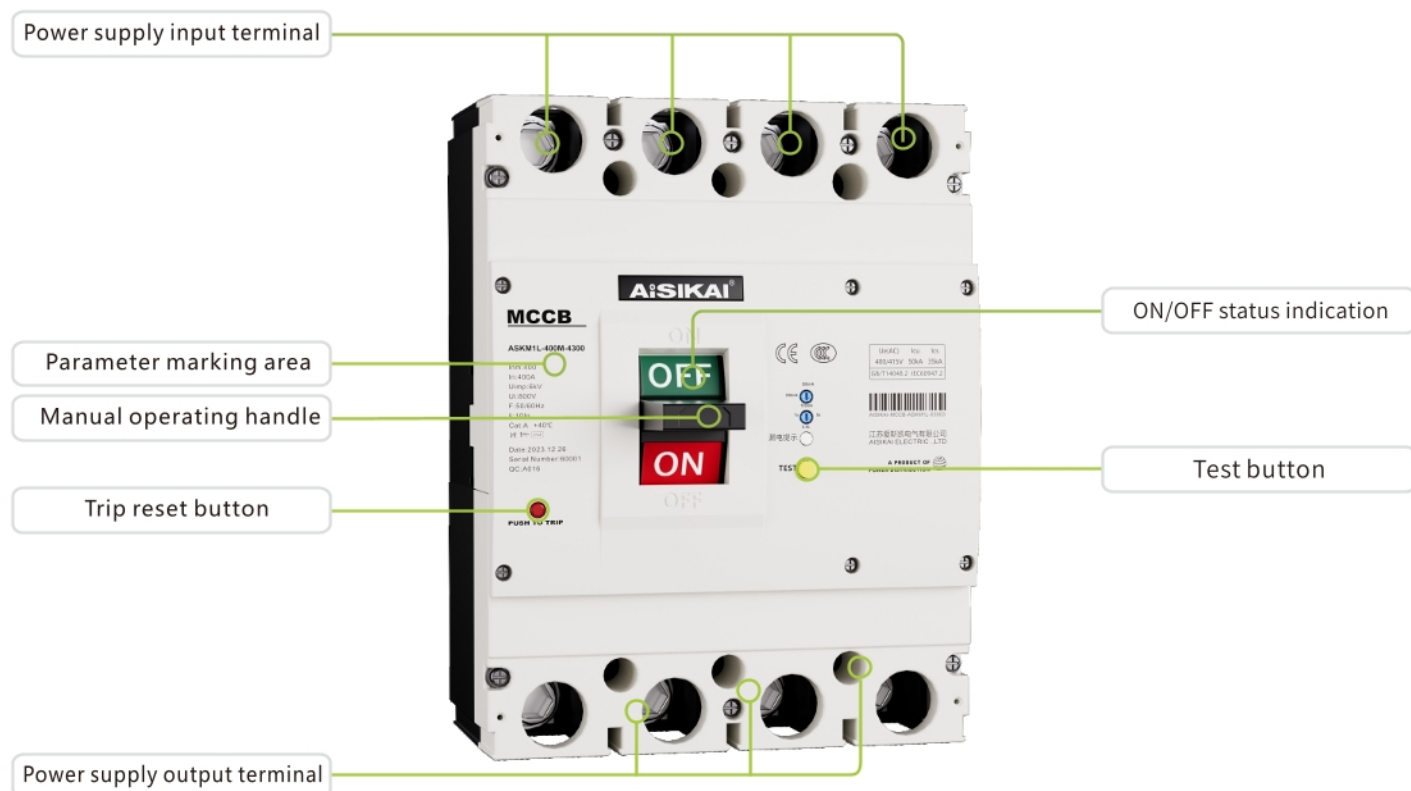


ISO
ISO-14001

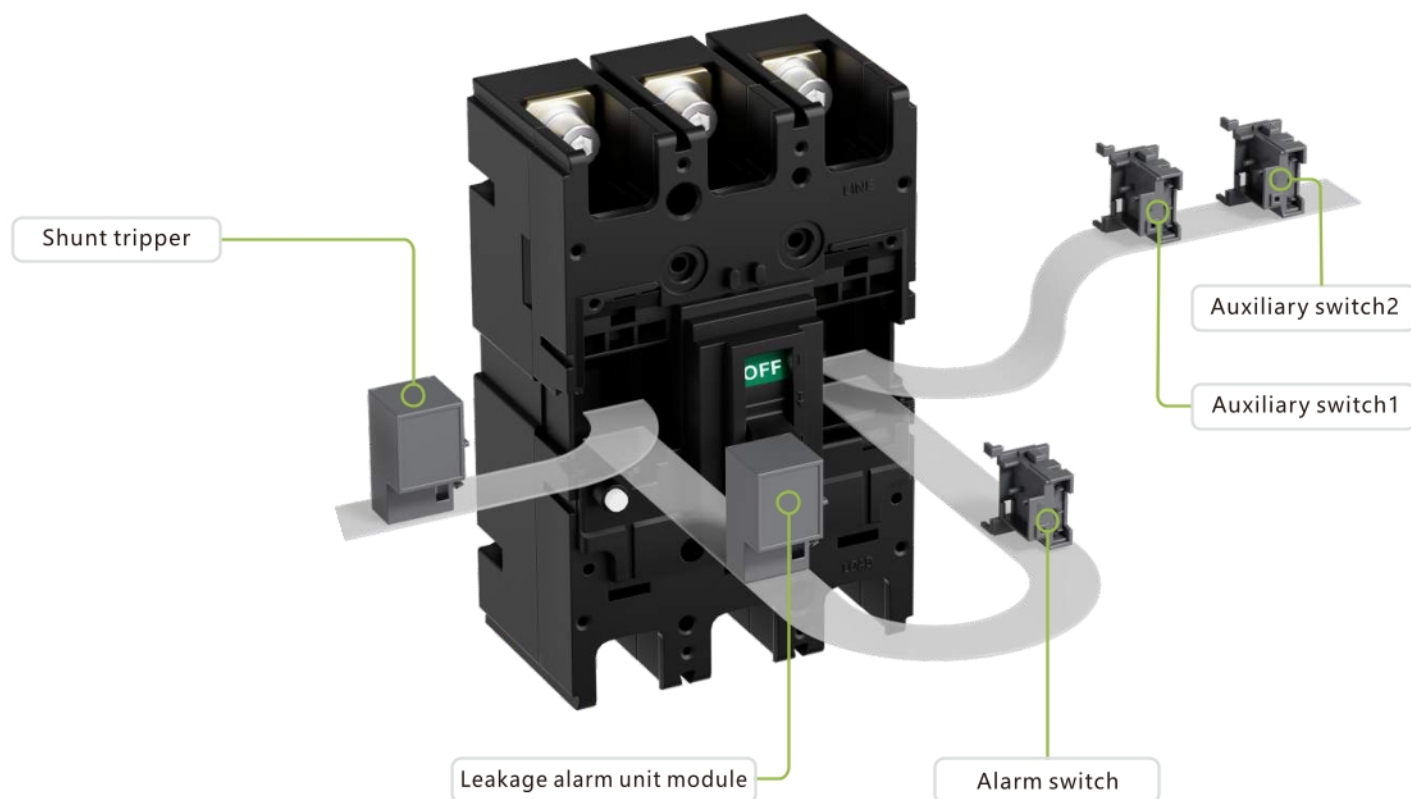


ISO
ISO-45001

APPEARANCE INTRODUCTION



● External diagram of MCCB



● Internal accessories diagram of MCCB

MODEL SELECTION TABLE



ASK	M	1	L	125	L	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	125 250 400 630	L: standard M: medium-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 wiring 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 ASKM1L THERMOMAGNETIC LEAKAGE PROTECTION MOLDED CASE CIRCUIT BREAKER

Model			ASKM1L-125	ASKM1L-250	ASKM1L-400	ASKM1L-630	
Frame rating current $I_{nm}(A)$			125	250	400	630	
Rated current $I_n(A)$			16 20 25 32 40 50 63 80 100 125	100 125 140 160 180 200 225 250	225 250 315 350 400	400 500 630	
No. of poles			3/4	3/4	3/4	3/4	
Rated insulation voltage $U_i(V)$			AC800	AC800	Ac800	Ac800	
Rated operational voltage $U_e(V)$			AC400	Ac400	Ac400	Ac400	
Rated impulse withstand voltage $U_{imp}(V)$			8000	8000	8000	8000	
Arc distance (mm)			$\geq 50(0)^{**}$	$\geq 50(0)^{**}$	$\geq 100(0)^{**}$	$\geq 100(0)^{**}$	
Breaking capacity level			L M	L M	M	M	
Ultimate short-circuit breaking capacity I_{cu} (kA)		AC400V	35	50	50	50	
Service short-circuit breaking capacity I_{cs} (kA)		AC400V	22	35	35	35	
Rated residual action current $I_n(A)$	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
		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
	A type residual 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
Use category			A				
Rated residual non-action current I_{no} (mA)			$\frac{1}{2} I_n$				
Rated residual short-circuit making(breaking) capacity I_m (kA)			$\frac{1}{4} I_{cu}$				
Operational performance (times)	Electrical service life(times of operation)		8000	8000	7500	7500	
	Mechanical service life(times of operation)-without maintenance		20000	20000	10000	10000	
	Mechanical service life(times of operation)-with maintainable		40000	40000	20000	20000	
Outline dimensions (mm)		W(3P/4P)	92/122	107/142	150/198	210/280	
		L	150	165	257	280	
		H	92	90	106.5	115.5	

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.

Note: 1. when this series of three poles circuit breaker connected to a three-phase load, the load can not be connected the neutral pole, otherwise the circuit breaker will act falsely.

2. when this series of three poles circuit breaker connected to a single-phase load, connect the phase line to the left pole, and connect the neutral line to the right pole. Do not connect the center pole.

ACCESSORIES CODE TABLE



Design marking



ASKM1L

Model description 1:

ASKM1L-125LP/4300/2BWIITH/R,In=125A

1. leakage protection molded case circuit breaker, 125A frame, standard 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:

ASKM1L-250M/3300/A,In=250A

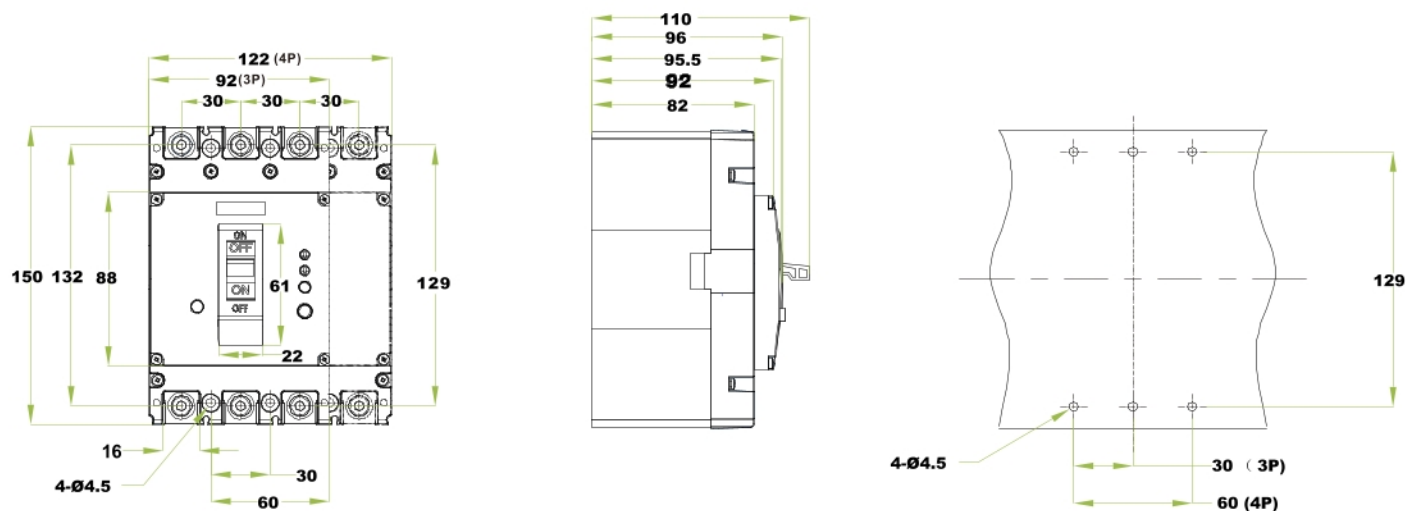
1. leakage protection molded circuit breaker, 250A frame, medium-high breaking capacity,direct manual operation(implicit);
2. 3 poles, composite tripper, no accessory;
3. for power distribution, no over-current tripper on N pole, N pole is always closed and does not break/close along with the other three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

Code	Accessory	ASKM1L-125/250		ASKM1L-400		ASKM1L-630	
		3P/4P A/D type	4P B/C type	3P/4P A/D type	4P B/C type	3P/4P A/D type	4P B/C type
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		◀ ◻ ◻ ◻ ▶				

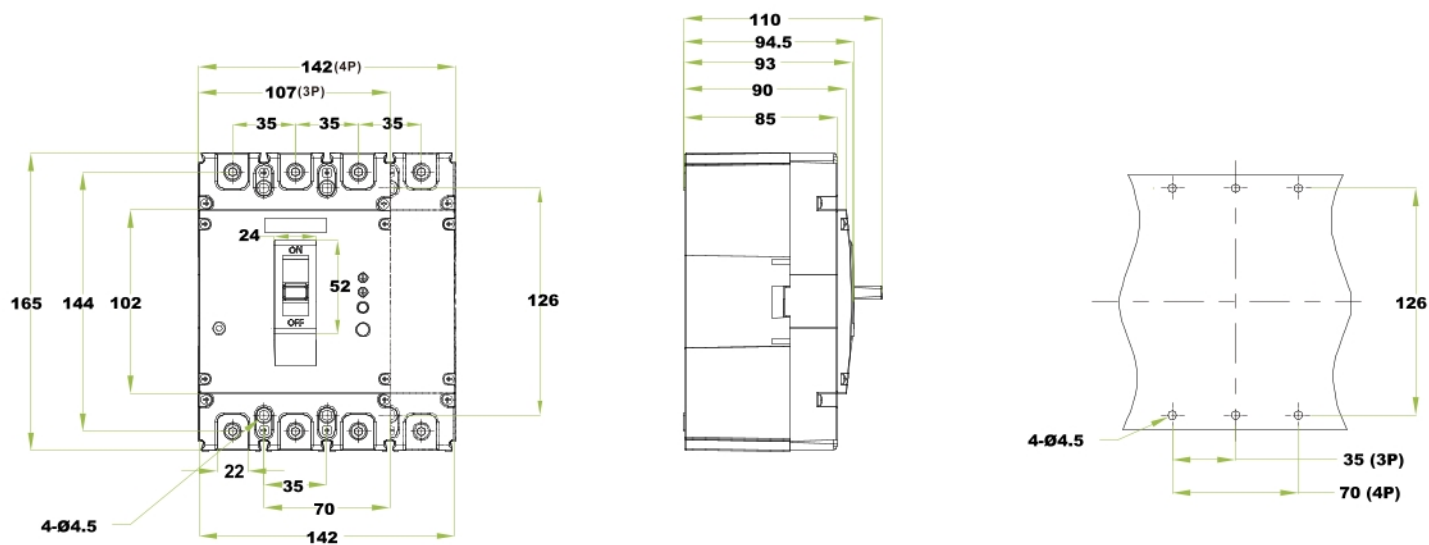
OUTLINE AND INSTALLATION DIMENSIONS

Front wiring

ASKM1L-125Frame

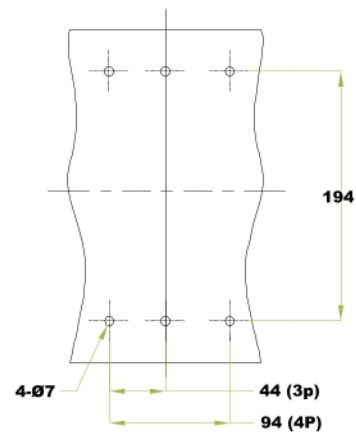
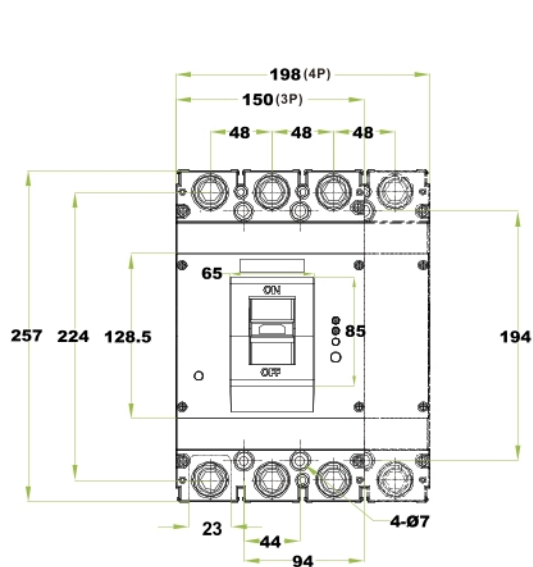


ASKM1L-250Frame

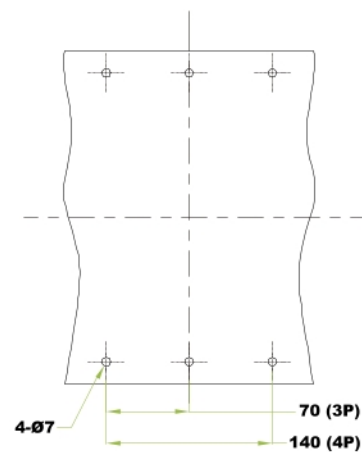
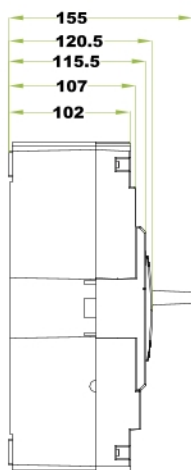
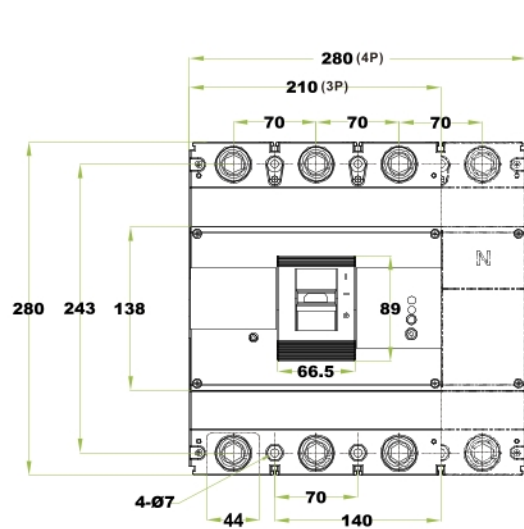


OUTLINE AND INSTALLATION DIMENSIONS

Front wiring
ASKM1L-400Frame



ASKM1L-630Frame



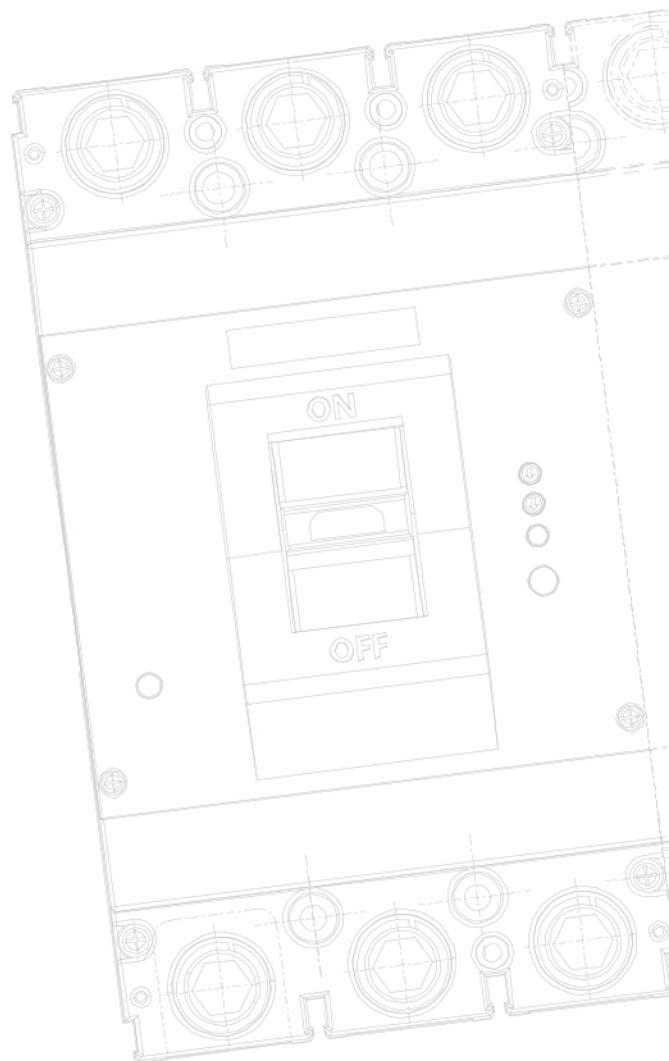
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