

MCCB

ASKM1E

INTELLIGENT ELECTRONIC MOLDED
CASE CIRCUIT BREAKER



ASKM1E

ASKM1E intelligent electronic 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 800A. MCCB can be used for infrequent switching of lines and infrequent starting of motors.

MCCB have 3-section protection function(LSI, i.e. overload long delay protection+short-circuit short delay protection+grounding protection), 4-section protection function(LSIG, i.e. overload long delay protection+short-circuit short delay protection+short-circuit instantaneous protection+grounding protection) and under-voltage protection function. MCCB can protect circuits and power equipment from damage. Low temperature to -40°C type circuit breaker is available.

FRAME



125

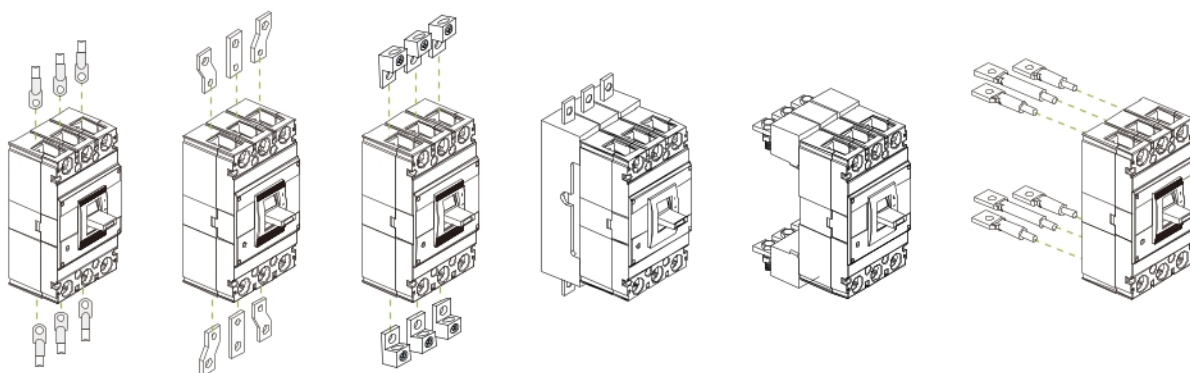
250

400

630

800

WIRING METHOD



Front wiring

Front extended wiring

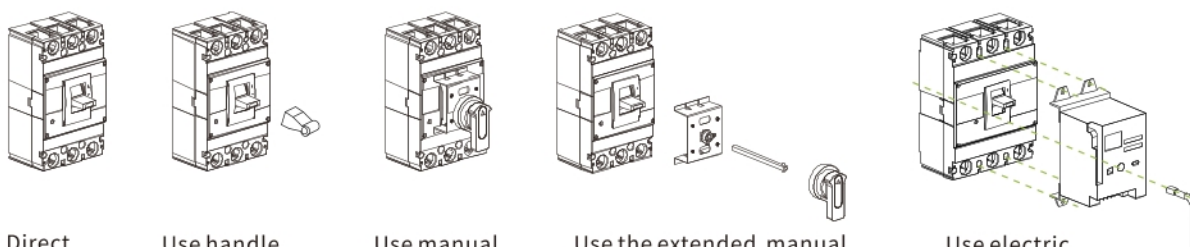
Front wiring using cable connectors

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-MCCB
ASKM1E-125

CQC-MCCB
ASKM1E-250

CQC-MCCB
ASKM1E-400

CQC-MCCB
ASKM1E-630

CQC-MCCB
ASKM1E-800

CE
CE-MCCB

ISO
ISO-9001

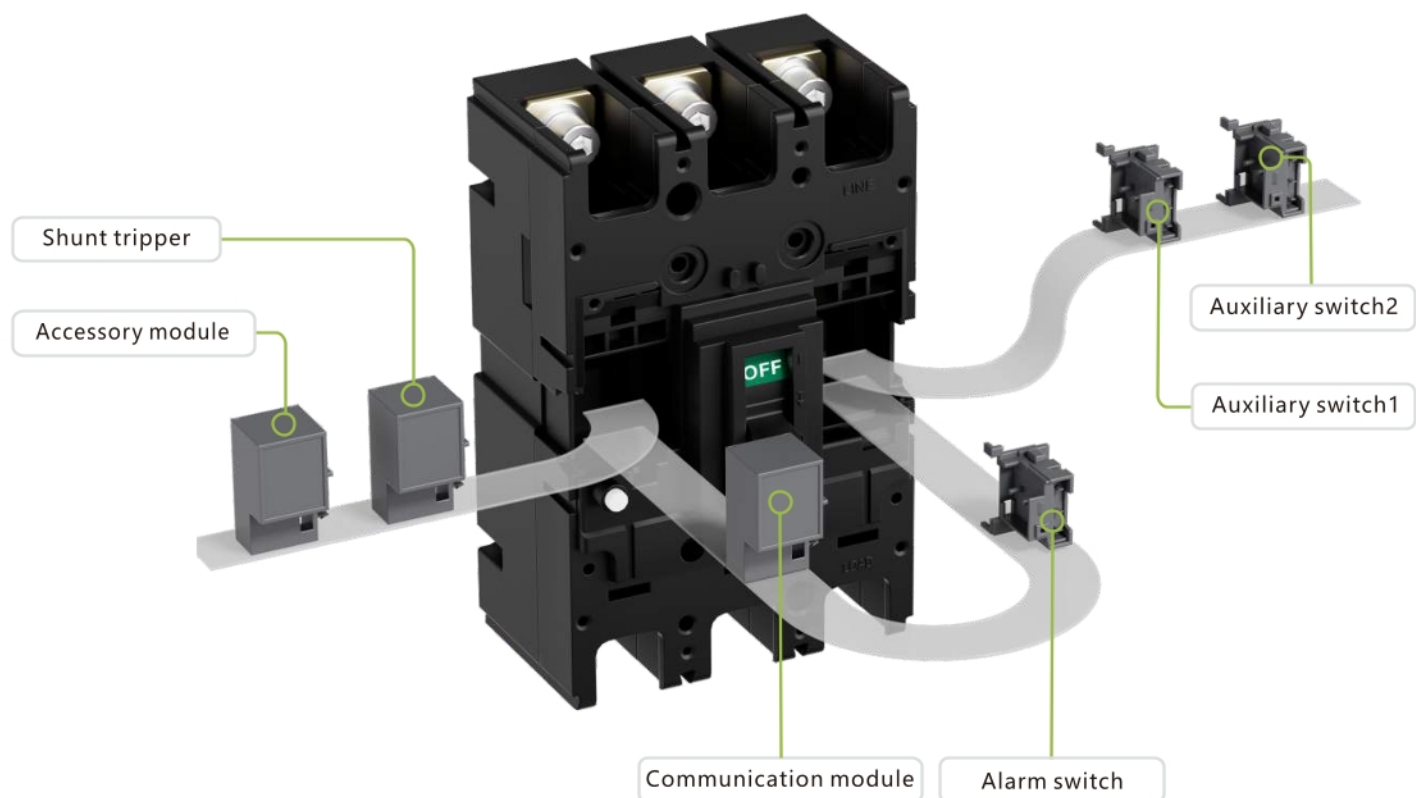
ISO
ISO-14001

ISO
ISO-45001

APPEARANCE INTRODUCTION



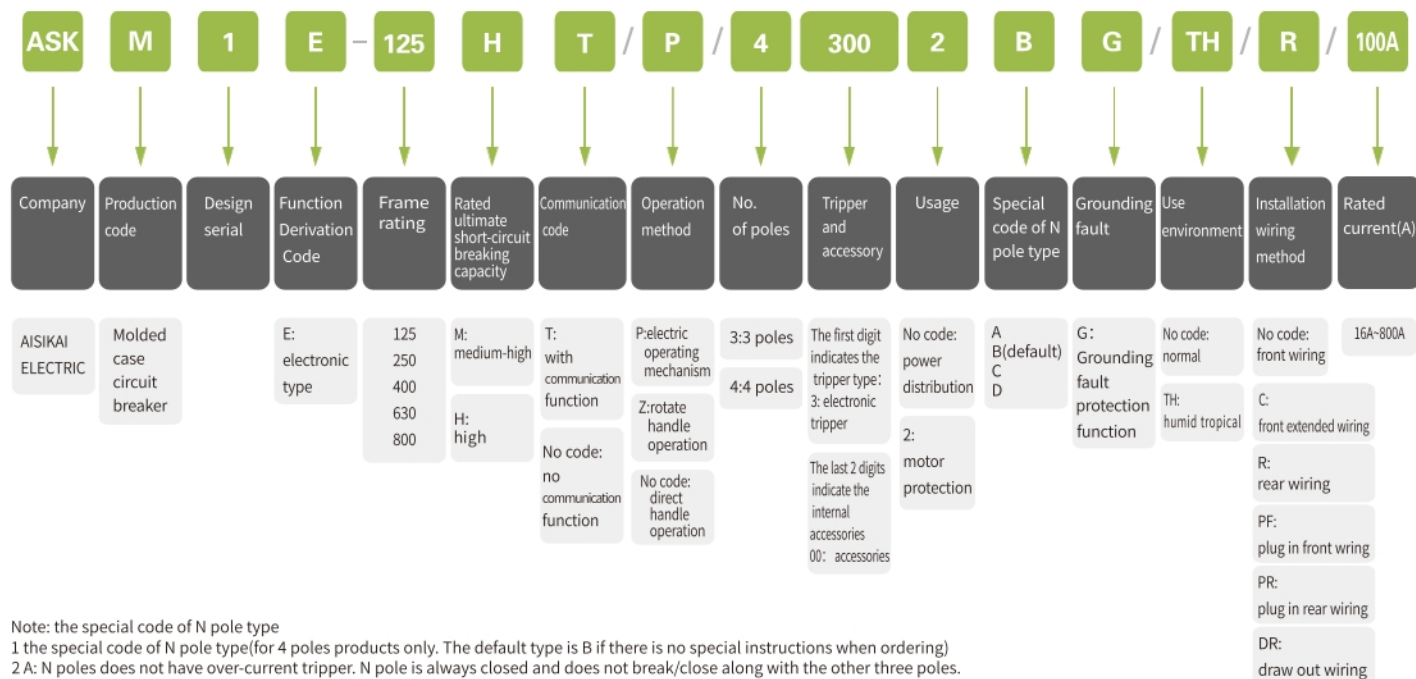
● External diagram of MCCB



● Internal accessories diagram of MCCB

MODEL SELECTION TABLE

No:11020202



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.

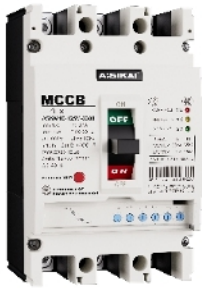
D: N poles has over-current tripper. N pole is always closed and does not break/close along with the other three poles.

TECHNICAL DATA SHEET OF ASKM1E THERMOMAGNETIC NORMAL PROTECTION MOLDED CASE CIRCUIT BREAKER

Model	ASKM1E-125	ASKM1E-250	ASKM1E-400	ASKM1E-630	ASKM1E-800
Frame rating current $I_{nm}(A)$	125	250	400	630	800
Rated current $I_n(A)$	32 63 125	160 250	400	630	800
Overload long delay setting current $I_{r1}(A)$	16 20 25 32 32 40 45 50 56 60 63 63 80 85 90 95 100 125	63 80 100 125 140 160 180 200 225 250	200 225 250 280 315 350 400	400 420 440 460 480 500 530 560 600 630	630 640 660 680 700 720 740 760 780 800
Rated operational voltage $U_e(V)$	AC400V/415V AC660V/690V				
Rated insulation voltage $U_i(V)$	1000V				
Rated impulse withstand voltage $U_{imp}(V)$	12000V				
Breaking capacity level	M H	M H	M H	M H	M H
Ultimate short-circuit breaking capacity $I_{cu}(kA)$	AC400V/415V 50 85 AC660V/690V 20	50 85 20	65 100 20	65 100 20	65 100 20
Service short-circuit breaking capacity $I_{cs}(kA)$	AC400V/415V 35 AC660V/690V 15 50	35 50	50 65	50 75	50 75
Rated short-time withstand current $I_{cw}(kA)/1s$	10	10	10	10	10
Use category	B	B	B	B	B
Arc distance	>50(0)**	>50(0)**	>100(0)**	>100(0)**	>100(0)**
Electrical service life(times of operation)	8000	8000	7500	7500	7500
Mechanical service life (times of operation)	without maintenance 20000 with maintainable 40000	20000 40000	10000 20000	10000 20000	10000 20000
Outline dimensions (mm)	W(3P/4P) 92/122 L 150 H(not including handle) 108	107/142 165 110	150/198 257 151	210/280 280 160	210/280 280 160

Note: after MCCB is equipped with a zero-flashover arc chute, zero-flashover can be achieved.

ACCESSORIES CODE TABLE



Design marking



Model description 1:

ASKM1E-125H/P/43002/TH/R/63A

1. Electronic molded case circuit breaker, 125A frame, high breaking capacity;
2. electric operating mechanism, 4 poles, electronic tripper, no accessory;
3. for motor protection, humid tropical type, rear wiring;
4. rated current $I_n = 63A$, setting current $I_r = (0.4-1)I_n$.

Model description 2:

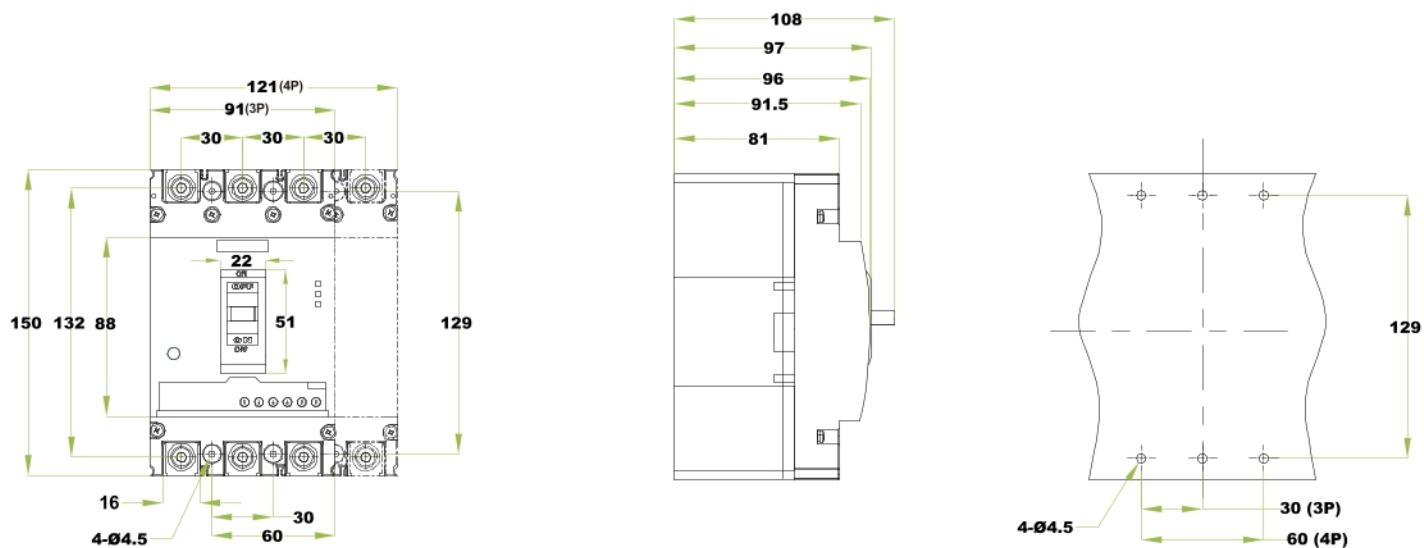
ASKM1E-250MT/3300/160A

1. Electronic molded circuit breaker, 250A frame, medium-high breaking capacity, communication function, direct manual operation(implicit);
2. 3 poles, electronic tripper, no accessory, for power distribution;
3. normal environment(implicit), front wiring(implicit);
4. rated current $I_n = 160A$, setting current $I_r = (0.4-1)I_n$.

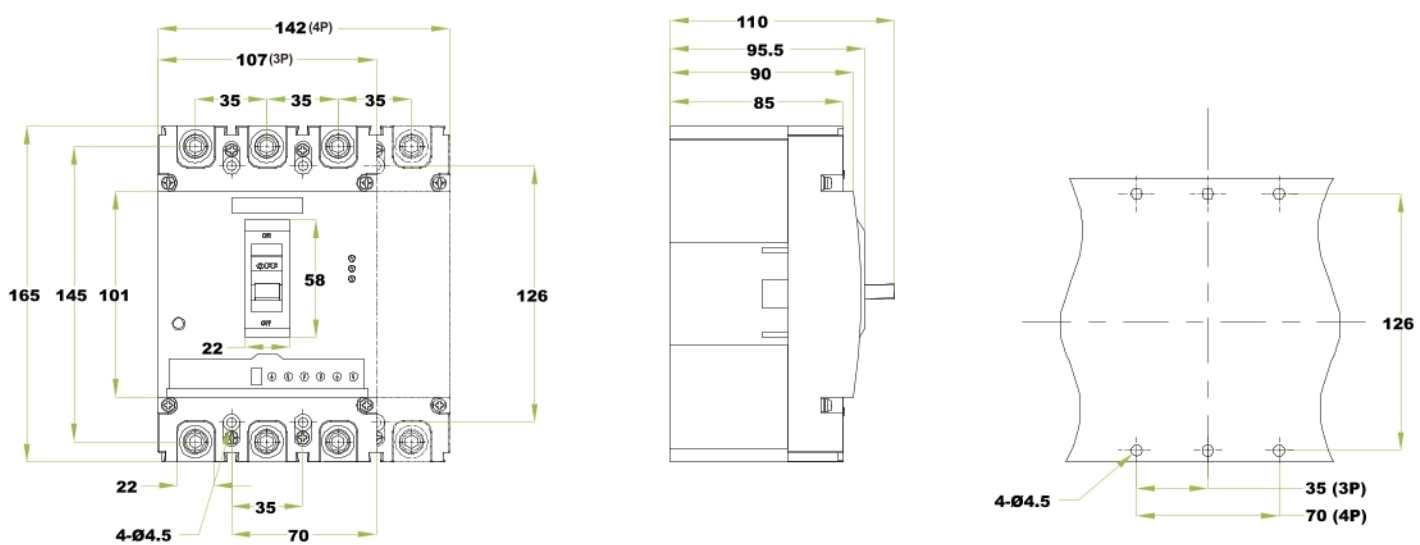
Code	Accessory	ASKM1E-125/250	ASKM1E-400		ASKM1E-630/800
		3P/4P	3P	4P	3P/4P
00	No accessory				
08	Alarm switch	◀ □ □ □	◀ □ □ □	◀ □ □ □	◀ □ □ □
10	Shunt tripper	◀ ● □ □	◀ ● □ □	◀ ● □ □	◀ ● □ □
20	Auxiliary switch(1NO1NC)	◀ ■ □ □			
	Auxiliary switch(2NO2NC)		◀ ■ □ □	◀ ■ □ □	◀ ■ □ □
02	Auxiliary switch(2NO2NC)	◀ ■ □ □			
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				

OUTLINE AND INSTALLATION DIMENSIONS

Front wiring
ASKM1E-125Frame



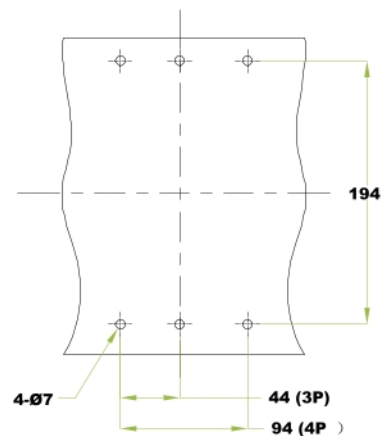
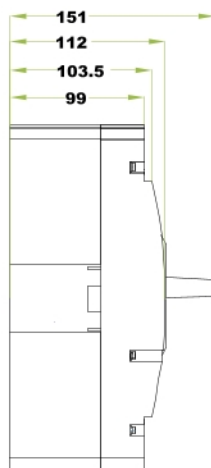
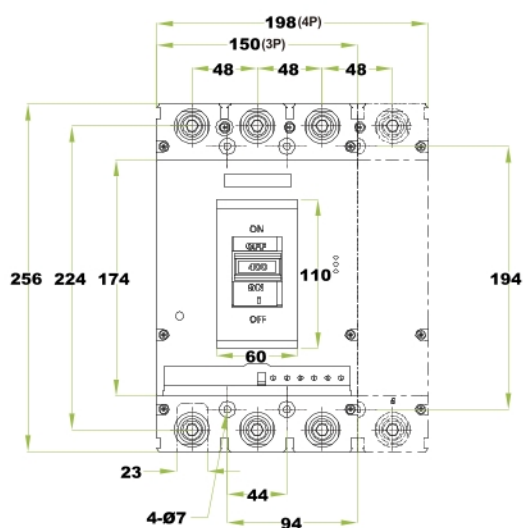
ASKM1E-250Frame



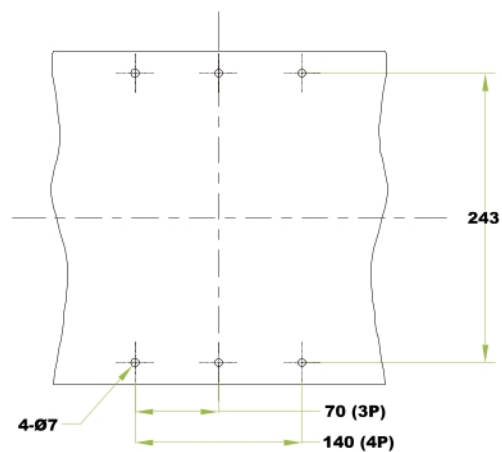
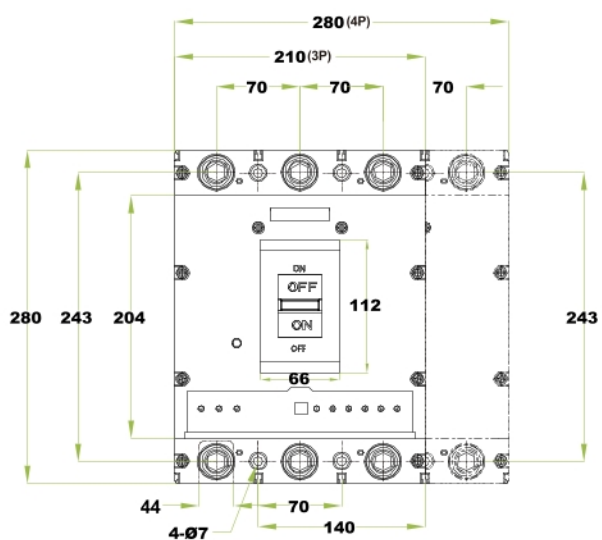
OUTLINE AND INSTALLATION DIMENSIONS

Front wiring

ASKM1E-400Frame



ASKM1E-630/800Frame



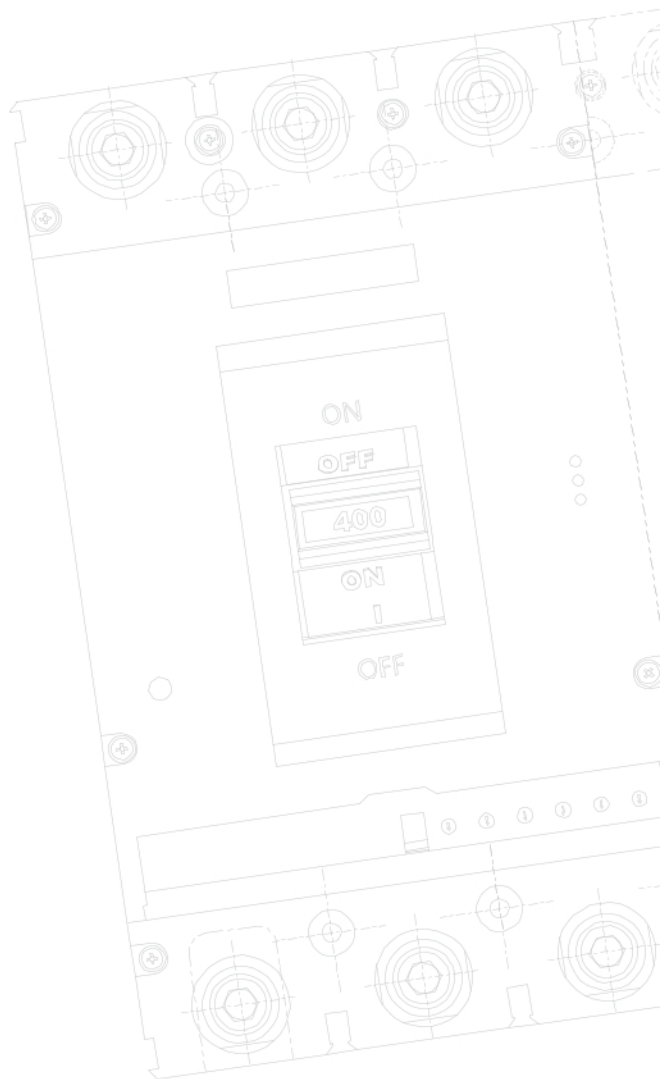
AiSIKAI®

WWW.SWITCHSHOPS.COM

JIANGSU AISIKAI ELECTRIC CO.,LTD.

Add: NO.5 CHUANGYE ROAD, INDUSTRIAL
ZONE, CHENJI TOWN, YIZHENG CITY,
JIANGSU PROVINCE

Tel: 0086-514-83872777
0086-514-83872888



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