

# MCCB

## ASKM2E-Y

LCD ELECTRONIC CASE CIRCUIT BREAKER



# ASKM2E-Y

ASKM2E-Y lcd electronic 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 1250A. 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

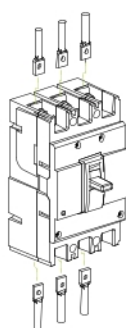


250

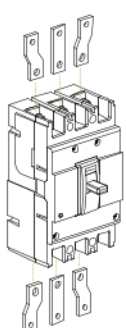


630

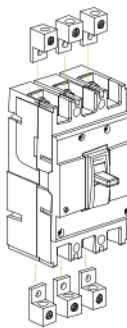
## WIRING METHOD



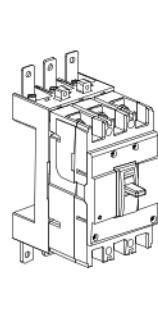
Front wiring



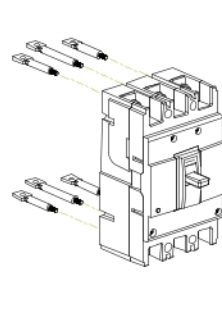
Front extended wiring



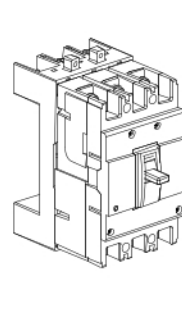
Front wiring using cable connectors



Plug in front wiring

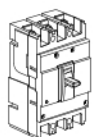


Rear wiring

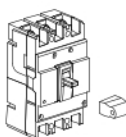


Plug in rear wiring

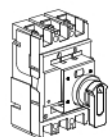
## OPERATION METHOD



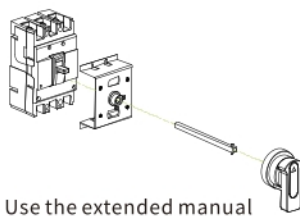
Direct operation



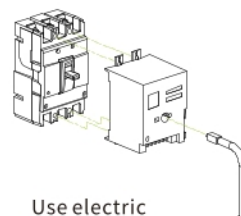
Use handle



Use manual operating mechanism



Use the extended manual operating mechanism outside the cabinet



Use electric operating mechanism

## APPLICABLE STANDARDS

GB14048.2、IEC60947.2



CQC  
CQC-MCCB  
ASKM2E-250Y



CQC  
CQC-MCCB  
ASKM2E-630Y



CE  
CE-MCCB



ISO  
ISO-9001



ISO  
ISO-14001

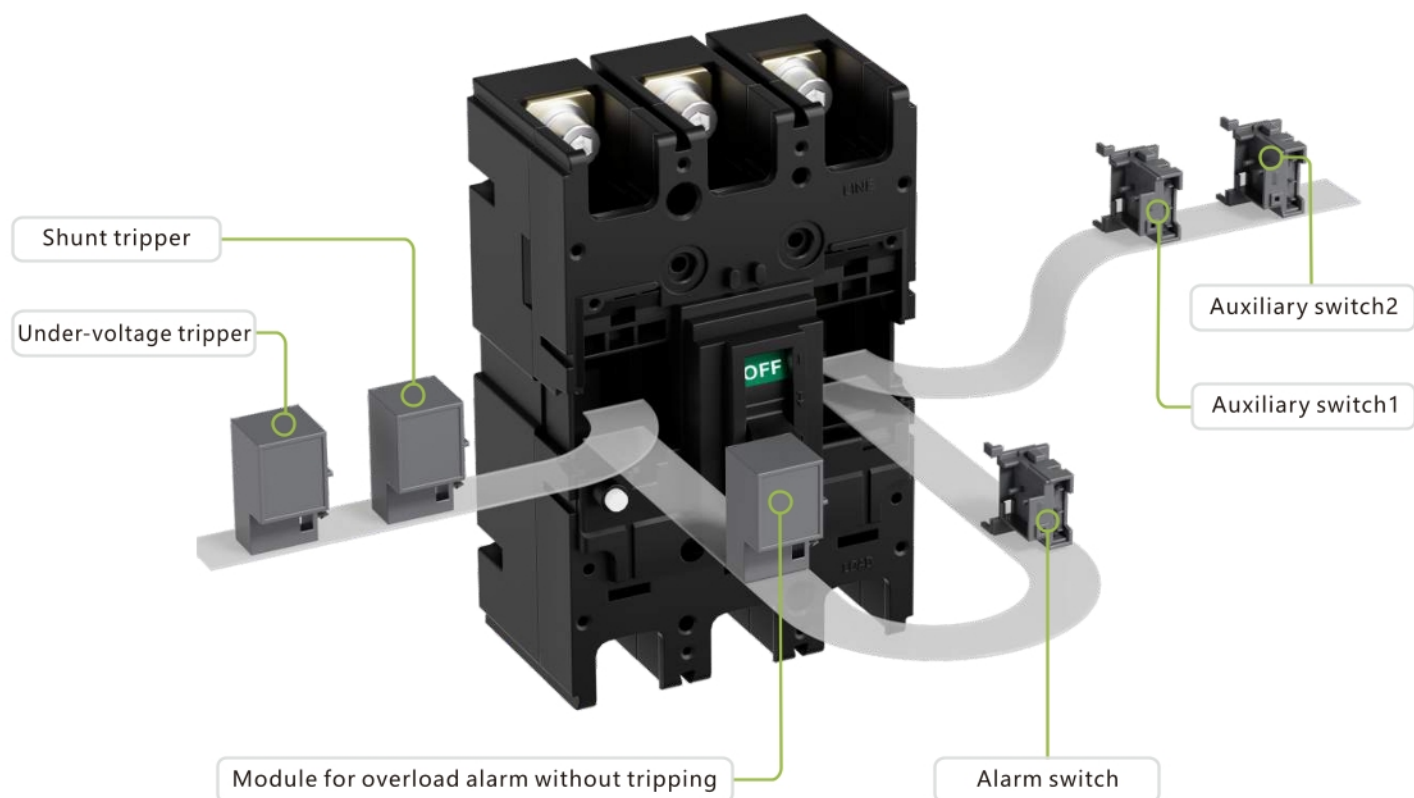


ISO  
ISO-45001

## APPEARANCE INTRODUCTION



### ● External diagram of MCCB



### ● Internal accessories diagram of MCCB

# MODEL SELECTION TABLE

No:11020211



ASK	M	2	E	250	Y	H / P / 4	300	2	B	G	TH	R	125A		
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		
Company	Production code	Design serial	Function Derivation Code	Frame rating	Production code	Rated ultimate short-circuit breaking capacity	Operation method	No. of poles	Tripper and accessory	Usage	Special code of N pole type	Grounding fault	Use environment	Installation wiring method	Rated current(A)
AIKAI ELECTRIC	Molded case circuit breaker		E: electronic type	250 630	Y: lcd electronic	C: basic type L: standard M: medium-high H: high	P:electric operating mechanism Z:rotate handle operation No code: direct handle operation	3:3 poles 4:4 poles	The first digit indicates the tripper type: 3: electronic tripper  The last 2 digits indicate the internal accessories 00: accessories	No code: power distribution  2: motor protection	A B(default) C D	G: Grounding fault protection function	No code: normal TH: humid tropical	No code: front wiring C: front extended wiring R: rear wiring PF: plug in front wring	32A-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)

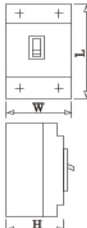
2 A: N poles does not have over-current tripper. N pole is always closed and does not break/close along with the other three poles.

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 ASKM2E-Y LCD ELECTRONIC PROTECTION MOLDED CASE CIRCUIT BREAKER

Model		ASKM2E-250Y				ASKM2E-630Y					
Frame rating current $I_{nm}(A)$		250				630					
Rated current $I_n(A)$		160		250		400			630		
Overload long delay setting current $I_{r1}(A)$ $I_{r1}=(0.4\sim1 I_n)$		63,80,90,100, 125,140,160		100,125,140,160, 180,200,225,250		250,315,350,400			400,420,440,460,480, 500,530,560,600,630		
Rated operational voltage $U_e(V)$		AC400V/415, AC660V/690V				AC400V/415, AC660V/690V					
Rated insulation voltage $U_i(V)$		1000				1000					
Rated impulse withstand voltage $U_{imp}(V)$		12000				12000					
Breaking capacity level		M	H	M	H	L	M	H	L	M	H
Ultimate short-circuit breaking capacity $I_{cu}(kA)$	AC440V/415V	50	50	50	50	35	50	75	35	50	75
Service short-circuit breaking capacity $I_{cs}(kA)$	AC440V/415V	35	50	35	50	25	35	75	25	35	75
Rated short-time withstand current $I_{cw}(kA)/1s$		5		5		10			10		
Use category		B		B		B			B		
Arc distance		$\geq 50(0)^{**}$		$\geq 50(0)^{**}$		$\geq 100(0)^{**}$			$\geq 100(0)^{**}$		
Electrical service life(times of operation)		3000		3000		2000			2000		
Mechanical service life (times of operation)	without maintenance	7000		7000		4000			4000		
	with maintainable	20000		20000		20000			20000		
Outline dimensions (mm) 	W(3P/4P)	105/142		105/142		140/184			140/184		
	L	165		165		258			258		
	H(not including handle)	103.5		103.5		117.5			117.5		

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

## ACCESSORIES CODE TABLE



### Design marking



ASKM2E-Y

### Model description 1:

#### ASKM2E-630YH/P/33002/TH/R/63A

1. Lcd electronic case circuit breaker, 630A 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  $I_n = 630A$ , setting current  $I_{r1} = (0.4-1)I_n$ .

### Model description 2:

#### ASKM2E-250MT/3300/160A

1. Lcd electronic circuit breaker, 250A frame, medium-high breaking capacity, 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  $I_{r1} = (0.4-1)I_n$ .

Model		ASKM2E-250Y	ASKM2E-630Y
No. of poles		3	3
Code	Accessory		
00	No accessory		
08	Alarm switch		
10	Shunt tripper		
20	Auxiliary switch		
30	under-voltage tripper		
40	Shunt tripper+Auxiliary switch		
50	Shunt tripper+under-voltage tripper		
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+Alarm 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.

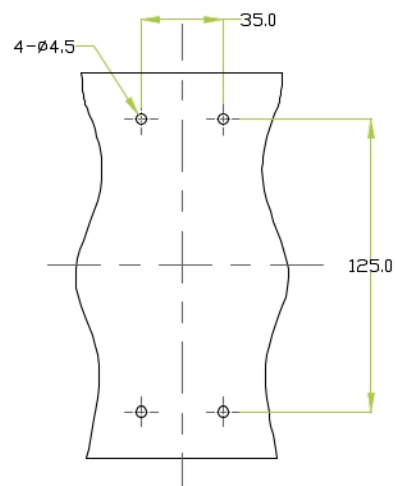
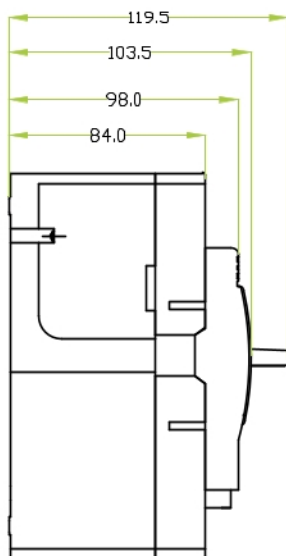
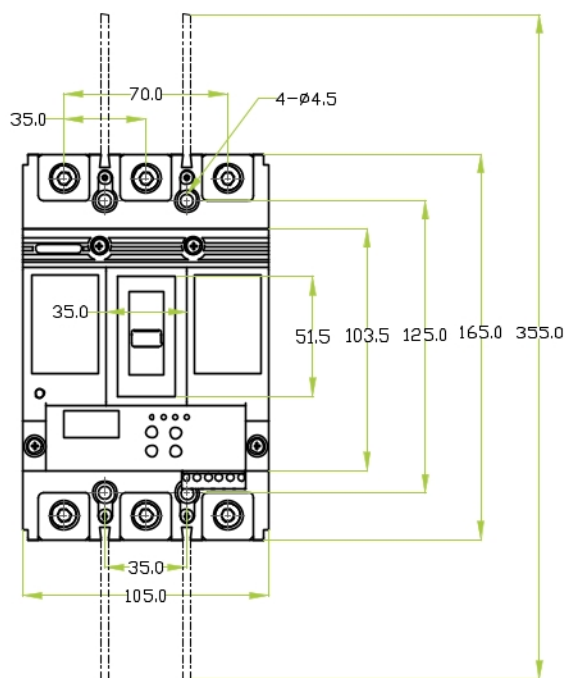
2. In specification of Code 50, above 400 frame, shunt tripper and undervoltage tripper can only assembled on 3P MCCB.



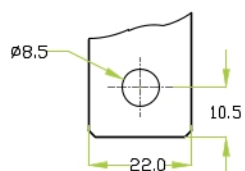
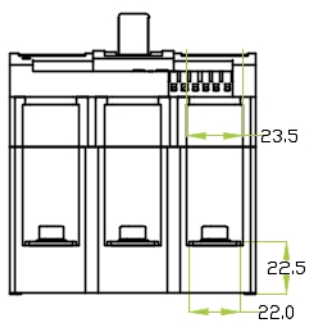
## OUTLINE AND INSTALLATION DIMENSIONS

Front wiring

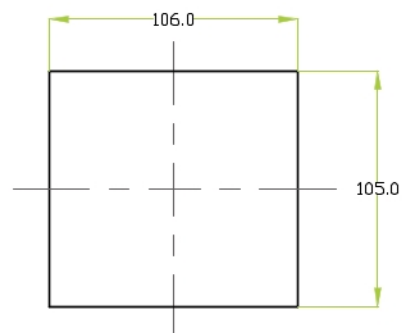
ASKM2E-250Y Frame



Installation dimensions



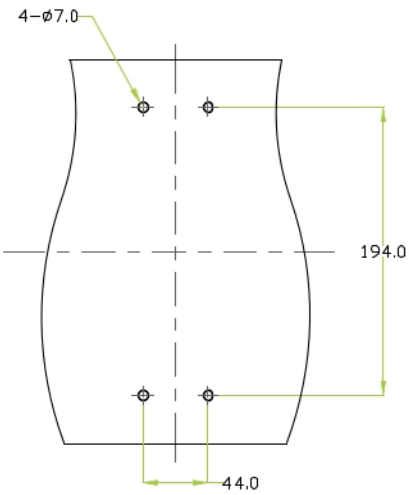
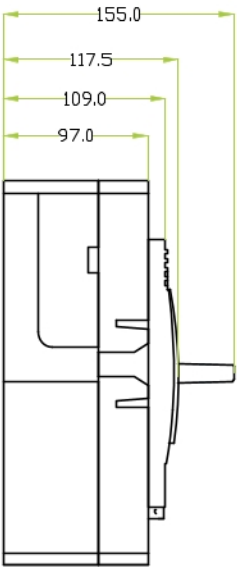
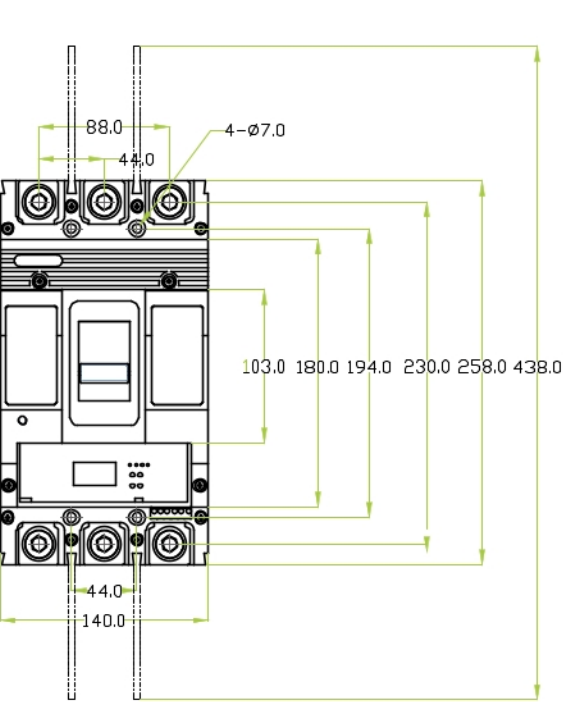
Copper bars dimensions



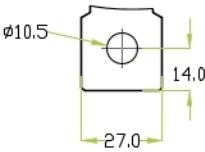
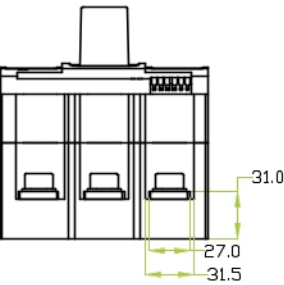
Installation opening dimensions of operation panel

# OUTLINE AND INSTALLATION DIMENSIONS

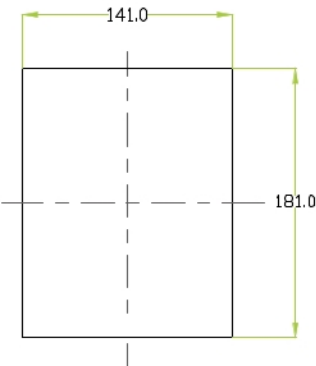
Front wiring  
ASKM2E-630Y Frame



Installation dimensions



Copper bars dimensions



Installation opening dimensions of operation panel

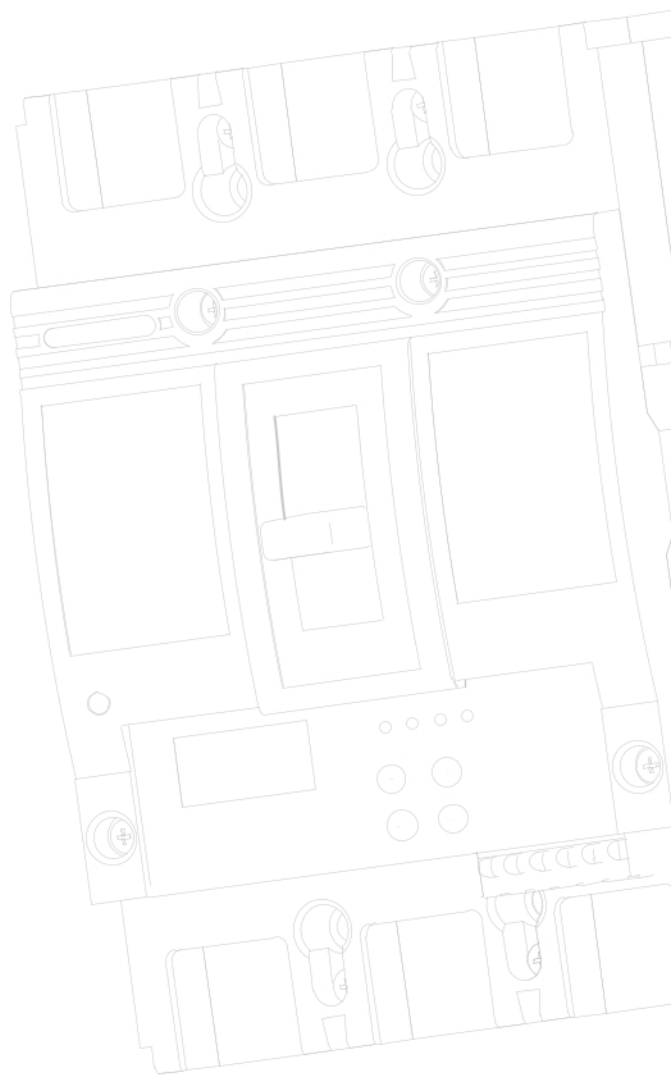
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