AiSIKAI®

MCCB

ASKM3E

INTELLIGENT ELECTRONIC MOLDED
CASE CIRCUIT BREAKER



ASKM SERIES MCCB
A PRODUCT OF
POWER DISTRIBUTION

ASKM3E

ASKM2E 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

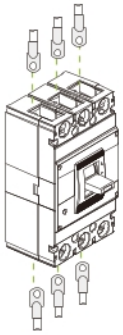


630

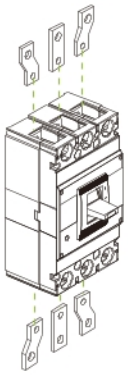


800

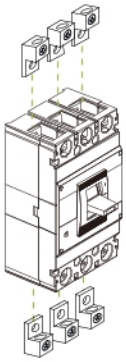
WIRING METHOD



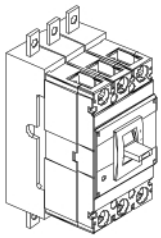
Front wiring



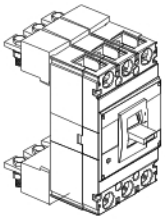
Front extended wiring



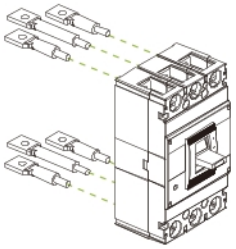
Front wiring using cable connectors



Plug in front wring

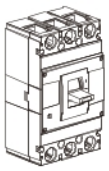


Plug in rear wiring

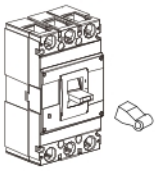


Rear wiring

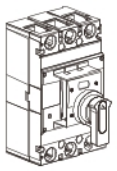
OPERATION METHOD



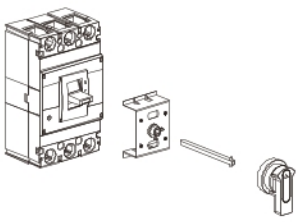
Direct operation



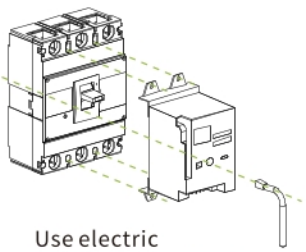
Use handle



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 ASKM3E-125



CQC-MCCB ASKM3E-250



CQC-MCCB ASKM3E-400



CQC-MCCB ASKM3E-630



CQC-MCCB ASKM3E-800



CE-MCCB



ISO-9001



ISO-14001

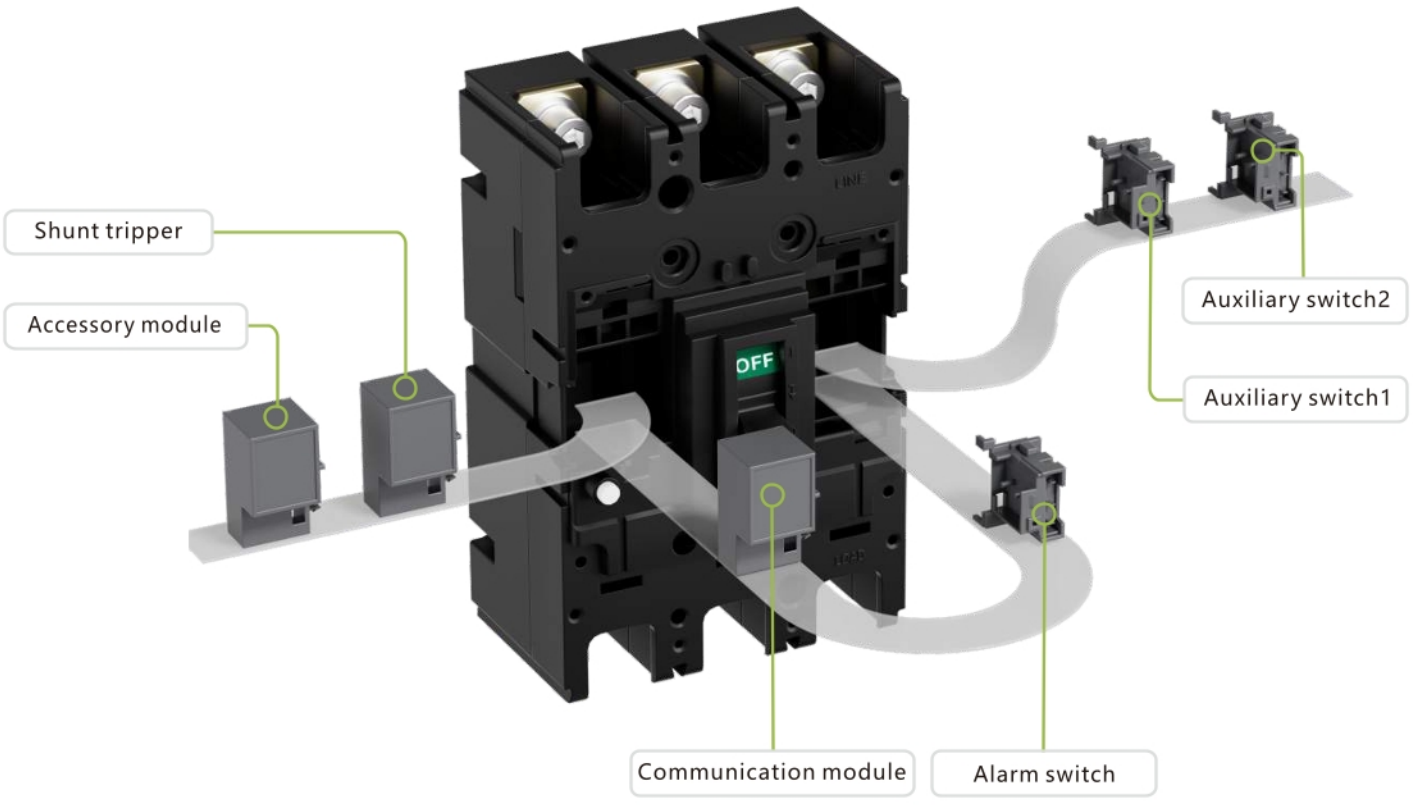


ISO-45001

APPEARANCE INTRODUCTION



● External diagram of MCCB



● Internal accessories diagram of MCCB

MODEL SELECTION TABLE

No:11020205

ASK	M	3	E	–	125	H	T	/	P	/	4	300	2	B	G	/	TH	/	R	/	125A
Company	Production code	Design serial	Function Derivation Code		Frame rating	Rated ultimate short-circuit breaking capacity	Communication code		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)
AISIKAI ELECTRIC	Molded case circuit breaker		E: electronic type		125 250 400 800	M: medium-high H: high	T: with communication function No code: no communication function		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 PR: plug in rear wiring DR: draw out wiring		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 ASKM3E THERMOMAGNETIC NORMAL PROTECTION MOLDED CASE CIRCUIT BREAKER

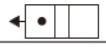
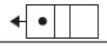
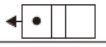
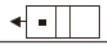
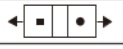
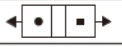
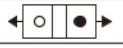
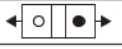
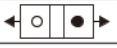
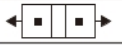
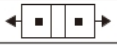
Model		ASKM3E-125			ASKM3E-250		ASKM3E-400		ASKM3E-630		ASKM3E-800	
Frame rating current Inm(A)		125			250		400		630		800	
Rated current In(A)		32	63	125	160	250	400		630		800	
Overload long delay setting current Ir1(A) Ir1=(0.4~1 In)		12.5,16, 20,25, 32	32,36, 40,45, 50,55, 60,63	63,65, 70,75, 80,85, 90,95, 100,125	63,80,90, 100,125, 140,160	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 Ue(V)		AC400V/415, AC660V/690V										
Rated insulation voltage Ui(V)		1000										
Rated impulse withstand voltage Uimp(V)		12000										
Breaking capacity level		M	H		M	H	M	H	M	H	M	H
Ultimate short-circuit breaking capacity Icu(kA)	AC440V/415V	50	85		50	85	65	100	65	100	65	100
	AC660V/690V	20	20		20	20	20	20	20	20	20	20
Service short-circuit breaking capacity Ics(kA)	AC440V/415V	35	50		35	50	50	65	50	75	50	75
	AC660V/690V	15	15		15	15	15	15	15	15	15	15
Rated short-time withstand current Icw(kA)/1s		5			5		8		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			20000		10000		10000		10000	
	with maintainable	40000			40000		20000		20000		20000	
Outline dimensions (mm)	W(3P/4P)	92/122			107/142		150/198		210/280		210/280	
	L	150			165		257		280		280	
	H(not including handle)	91			90		106.5		115.5		115.5	

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

ACCESSORIES CODE TABLE



Design marking	Model description 1:	Model description 2:
 ASKM3E	**ASKM3E-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 In= 63A, setting current Ir1= (0.4-1)In.	**ASKM3E-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 In=160A, setting current Ir1=(0.4-1)In.

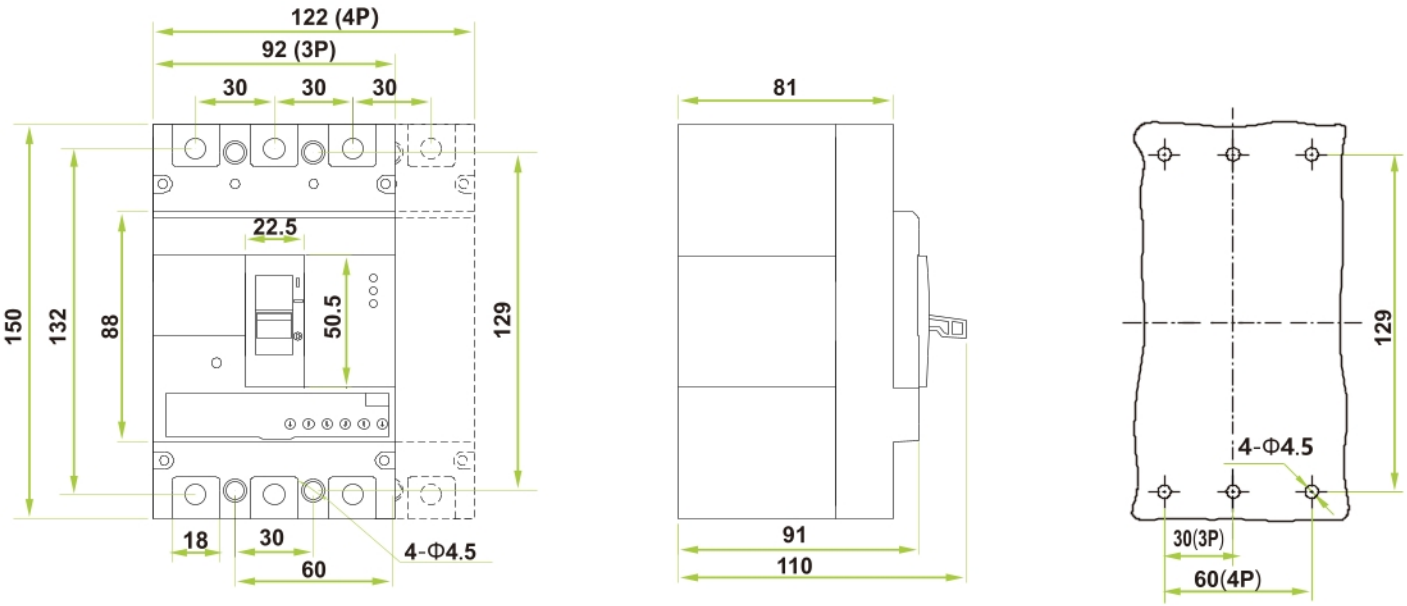
Model	Accessory	ASKM3E-125/250		ASKM3E-400		ASKM3E-630/800
		3P	4P	3P	4P	3P/4P
00	No accessory					
08	Alarm switch					
10	Shunt tripper					
20	Auxiliary switch(1NO1NC)					
	Auxiliary switch(2NO2NC)					
02	Auxiliary switch(2NO2NC)					
30	under-voltage tripper					
40	Shunt tripper+Auxiliary switch(1NO1NC)					
	Shunt tripper+Auxiliary switch(2NO2NC)					
12	Shunt tripper+Auxiliary switch(2NO2NC)					
50	Shunt tripper+Auxiliary switch					
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			可定制	可定制	可定制
38	under-voltage tripper+ Alarm switch					
48	Shunt tripper+ Auxiliary switch (1NO1NC)+ Alarm switch					
	Shunt tripper+ Auxiliary switch (2NO2NC)+ Alarm switch			可定制	可定制	可定制
68	2 sets of auxiliary switches(2NO2NC)+ Alarm switch					
	2 sets of auxiliary switches(4NO4NC)+ Alarm switch				可定制	可定制
05	2 sets of auxiliary switches(3NO3NC)+ Alarm switch					
78	under-voltage tripper+Auxiliary switch (1NO1NC)+ Alarm switch					
	under-voltage tripper+ Auxiliary switch (2NO2NC)+ Alarm switch					

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

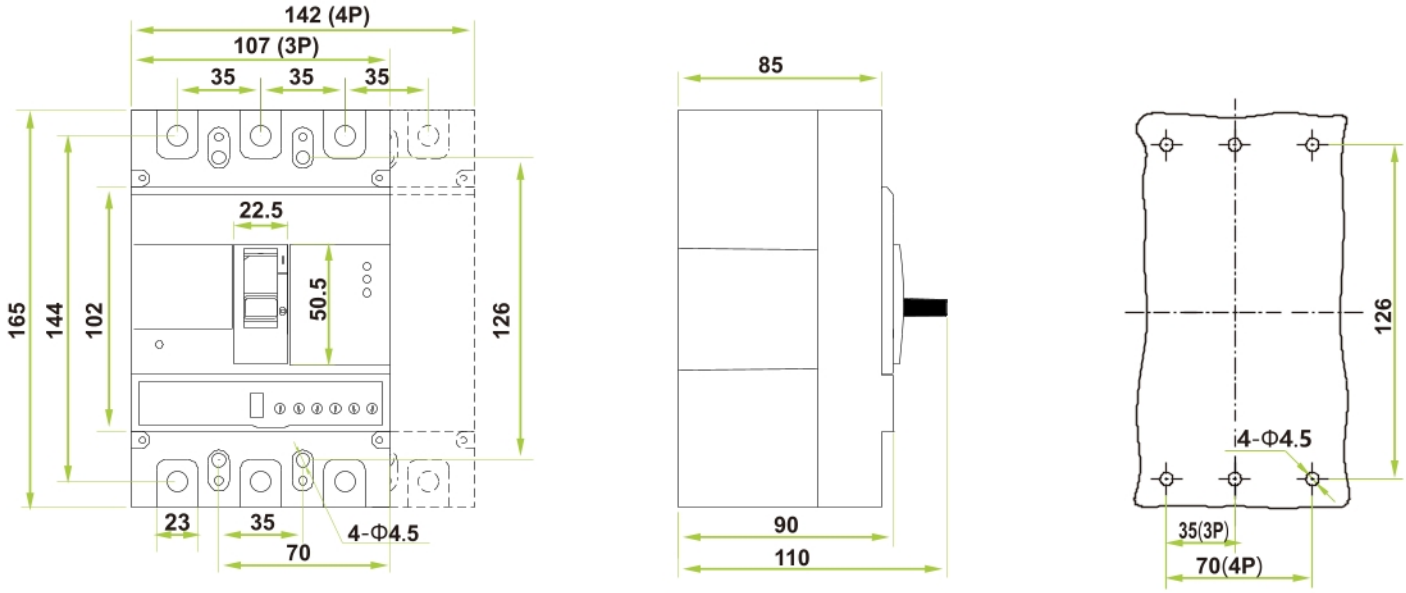
2. In specification of Code 50, above 400 frame, shunt tripper and undervoltage tripper can only assembled on 3P MCCB.

OUTLINE AND INSTALLATION DIMENSIONS

ASKM3E-125Frame Front wiring

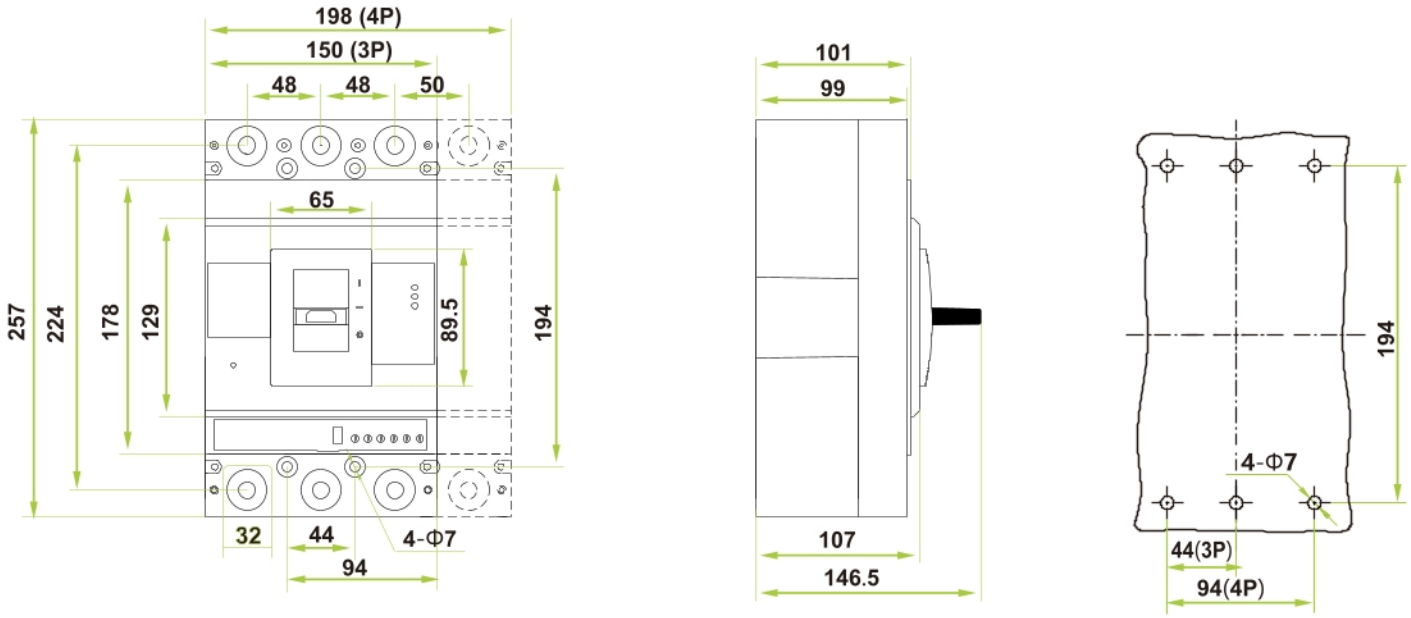


ASKM3E-250Frame Front wiring

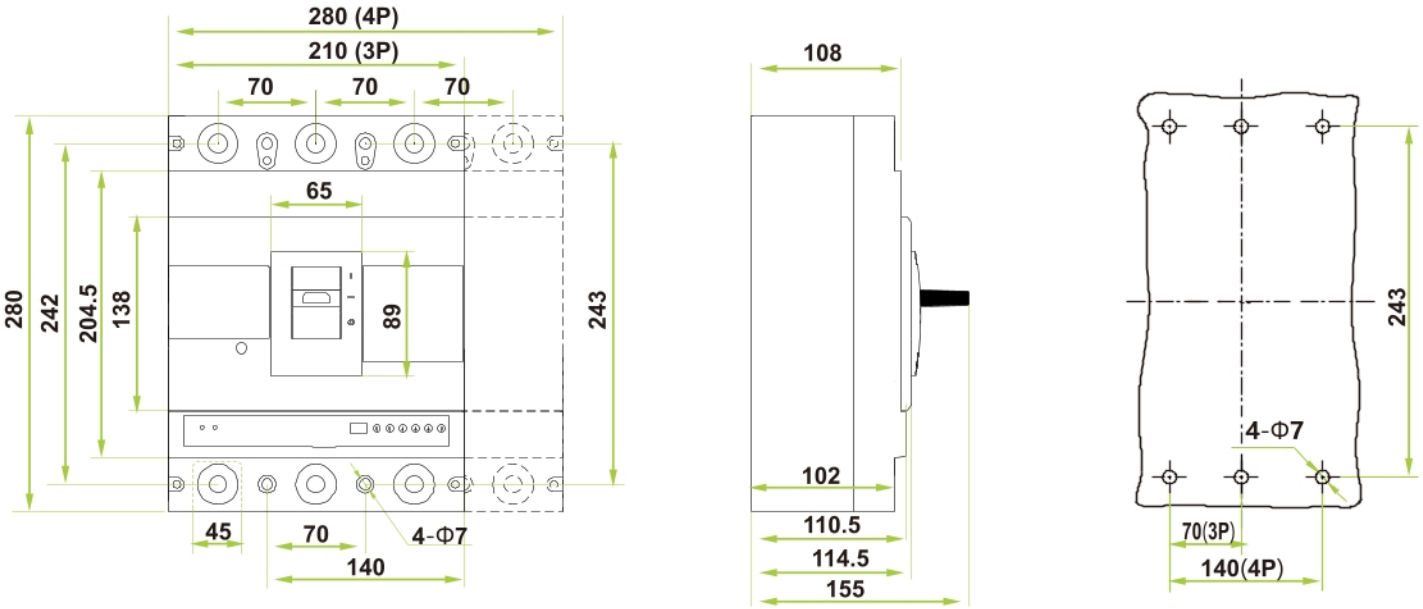


OUTLINE AND INSTALLATION DIMENSIONS

ASKM3E-400Frame Front wiring



ASKM3E-630/800Frame Front wiring



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