

MCCB

ASKM2RT

THERMAL - MAGNETIC ADJUSTABLE NORMAL
PROTECTION MOLDED CASE CIRCUIT BREAKER



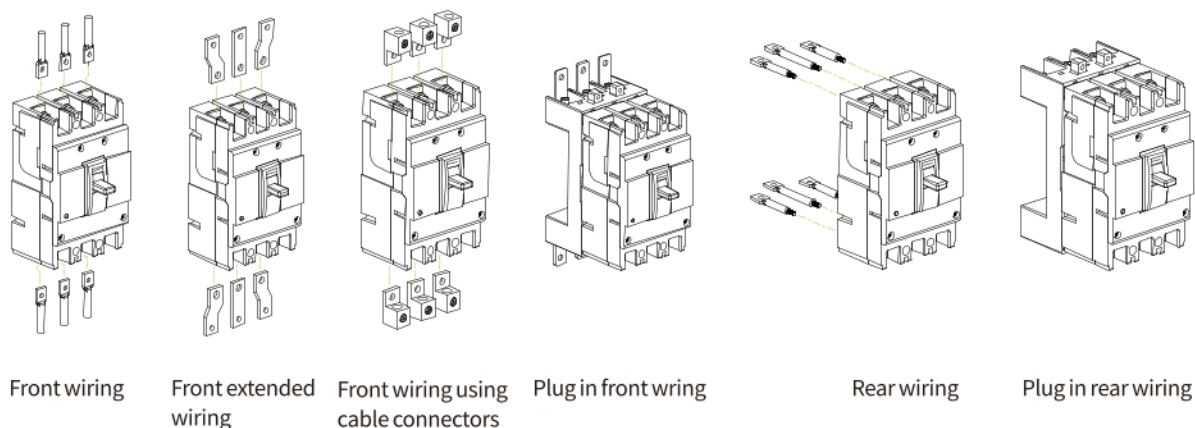
ASKM2RT

ASKM2RT thermal-magnetic adjustable 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. The rated insulation voltage of MCCB is 1000V. MCCB is suitable for the distribution network of AC 50/60Hz, rated voltage 690V and below, rated current 10A-800A. MCCB can distribute power and protect circuits and power equipment against faults like overload, under-voltage, short-circuit and under-voltage. MCCB can also be used for infrequent switching of lines and infrequent starting of motors. The products have the characteristics of small volume, high breaking capacity, short flying arc, vibration resistant, etc. The whole series have isolation function.

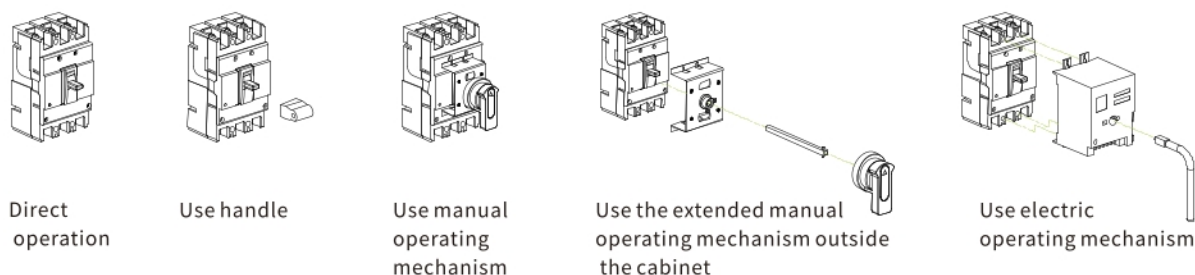
FRAME



WIRING METHOD



OPERATION METHOD

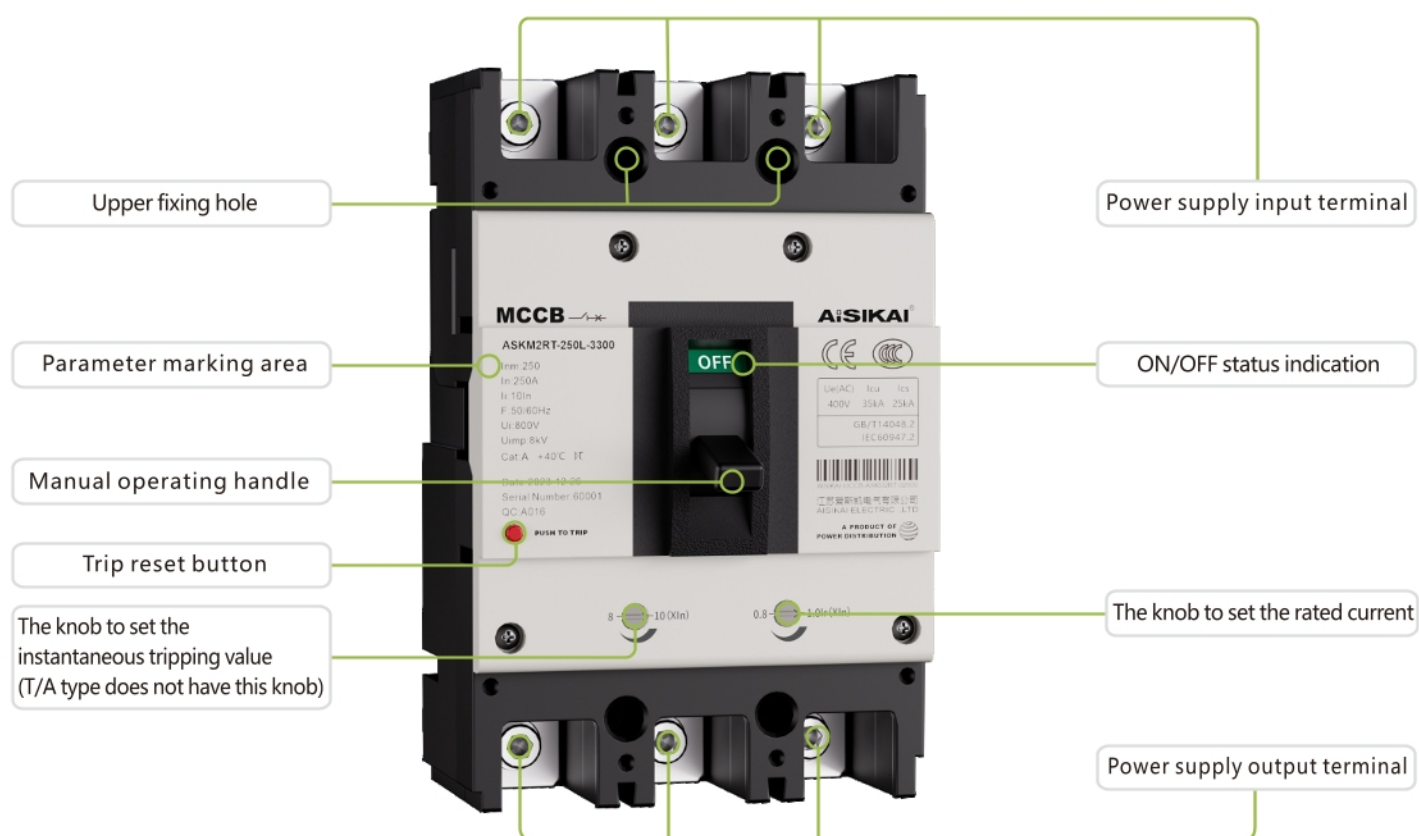


APPLICABLE STANDARDS

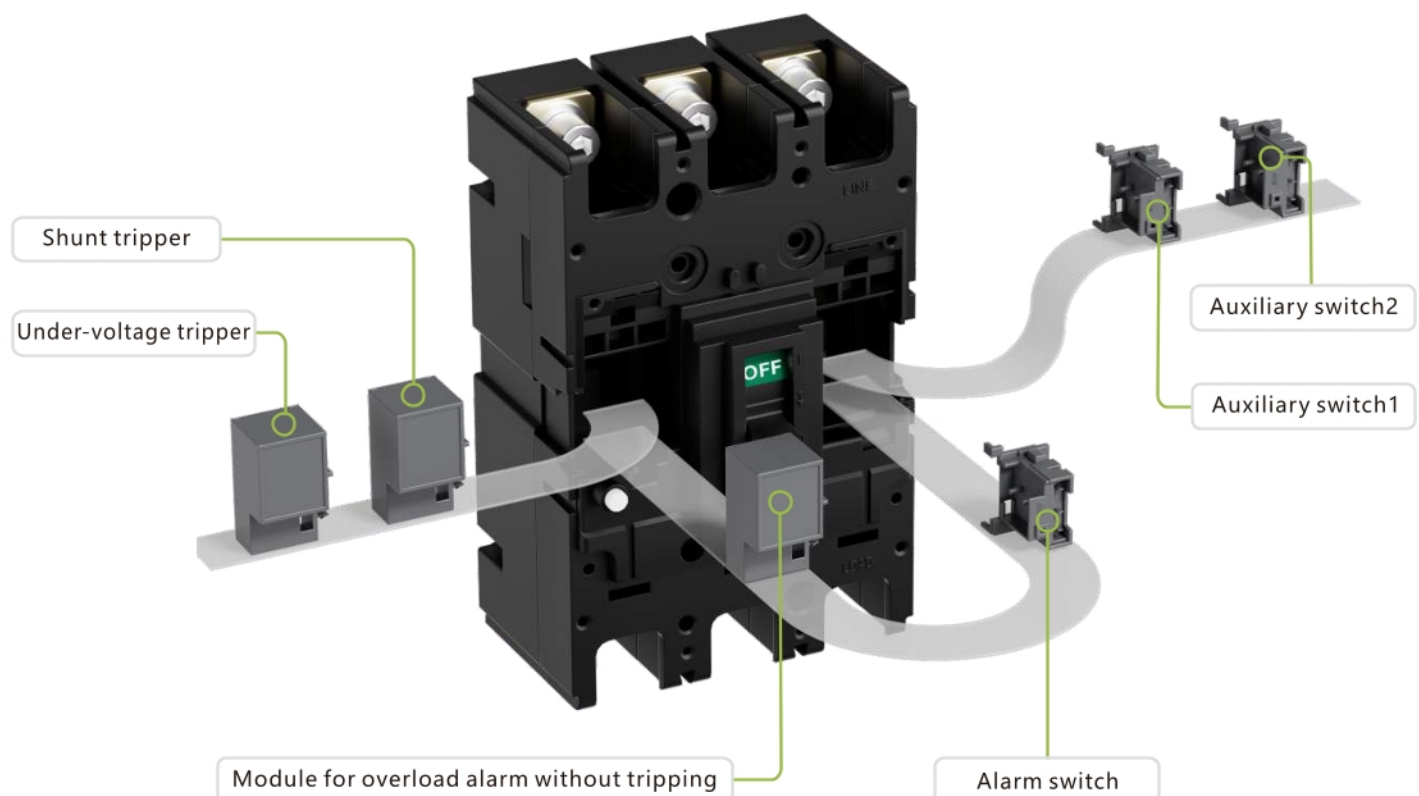
GB14048.2, IEC60947.2



APPEARANCE INTRODUCTION



● External diagram of MCCB



● Internal accessories diagram of MCCB

MODEL SELECTION TABLE

No:11020213



ASK	M	2	RT	125	H / P / 3	3	00	2	B	I	TH	R	100A		
Company	Production code	Design serial	Function Derivation Code	Frame rating	Rated ultimate short-circuit breaking capacity	Operation method	No. of poles	Tripper and accessorye	Internal accessories	Usage	Special code of N pole type	Special function code	Use environment	Installation wiring method	Rated current(A)
AISIKAI ELECTRIC	Molded case circuit breaker		RT : Thermal-magnetic adjustable T/A : Only thermal adjustable	160 250 630 800	C : basic type L : standard M : medium-high H : high	P:electric operating mechanism Z:rotate handle operation No code: direct handle operation	2:2 poles 3:3 poles 4:4 poles	2: electromagnetic tripper, only have short-circuit protection 3: composite tripper, have short-circuit protection and overload protection	00: no accessory 08: alarm contact Refer to details	No code: power distribution 2: motor protection	A B(default) C D	I: overload alarm non-trip function	No code: normal TH: humid tropical	No code: front wiring C: front extended wiring R: rear wiring PF: plug in front wring	10A-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.
- 3 B: N poles does not have over-current tripper. N pole breaks/closes along with the other three poles.
- 4 C: N poles has over-current tripper. N pole breaks/closes along with the other three poles.
- 5 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 ASKM2RT THERMOMAGNETIC NORMAL PROTECTION MOLDED CASE CIRCUIT BREAKER

Model	ASKM2RT-160	ASKM2RT-250	ASKM2RT-630	ASKM2RT-800
Frame rating current $I_{nm}(A)$	160	250	630	800
No. of poles	3P/4P	3P/4P	3P/4P	3P/4P
Rated current $I_n(A)$	63 80 100 125 160	125 140 160 180 200 225 250	250 315 350 400 500 630	500 630 700 800
Rated insulation voltage $U_i(V)$	800V	800V	800V	800V
Rated impulse withstand voltage $U_{imp}(V)$	8000V	8000V	8000V	8000V
Rated operational voltage $U_e(V)$	AC400V/415V	AC400V/415V	AC400V/415V	AC400V/415V
Arc distance (mm)	$\geq 50(0)^{2)}$	$\geq 50(0)^{2)}$	$\geq 100(0)^{2)}$	$\geq 100(0)^{2)}$
Breaking capacity level	C L M	C L M	L M H	L M H
Ultimate short-circuit breaking capacity $I_{cu}(kA)$	AC400V/415V	25 35 50	35 50 75	35 50 75
Service short-circuit breaking capacity $I_{cs}(kA)$	AC400V/415V	18 25 35	25 35 75	25 35 75
Use category	A	A	A	A
Electrical service life (times of operation)	AC400V/415V	3000	2000	1500
Mechanical service life (times of operation)	without maintenance	7000	4000	4000
	with maintainable	20000	20000	20000
Outline dimensions (mm)	W(3P/4P)	90/120	105/140	140/184
	L	155	165	258
	H(not including handle)	76.5	77	113

Note: Choose the height of 4mm zero-flashover arc chute for (ASKM2RT-63L/M, ASKM2RT-100C), 6.2mm for (ASKM2RT-160C/L/M/H), 8mm for (ASKM2RT-250C), 7.5mm for (ASKM2RT-250L/M/H), 9.3mm for (ASKM2RT-400C/L/M/H), ASKM2RT-630C/L/M/H), 9.5mm for (ASKM2RT-800L/M/H), realizing zero-flashover.

ACCESSORIES CODE TABLE



Design marking



ASKM2RT

Model description 1:

ASKM2RT-125HP/33002/TH/R/100A

1. normal protection MCCB, 125A frame, high breaking capacity, electric operation;
2. 3 poles, composite tripper, no accessory, for motor protection;
3. humid tropical type, rear wiring;
4. rated current 100A;

Model description 2:

ASKM2RT-250L/4300/160A

1. normal protection MCCB, 250A frame, standard breaking capacity, direct manual operation(implicit);
2. 4 poles, composite tripper, no accessory, for power distribution, no over-current tripper on N pole, N pole breaks/closes along with the other three poles(implicit);
3. normal environment(implicit), front wiring (implicit);
4. rated current 160A;

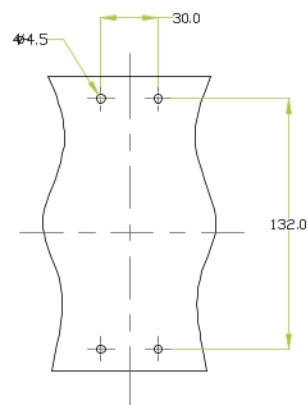
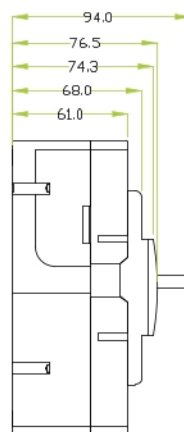
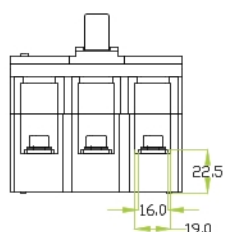
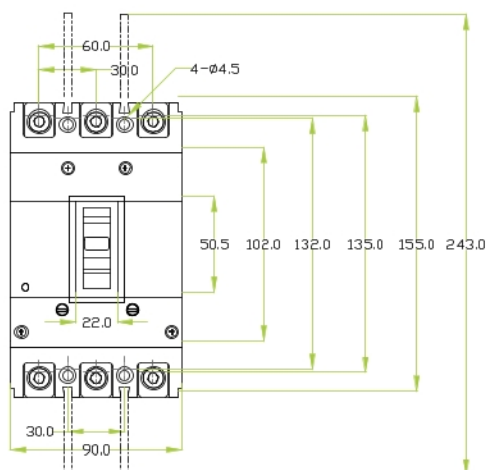
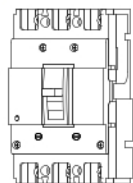
Model		ASKM2RT-160	ASKM2RT-250	ASKM2RT-630	ASKM2RT-800
Breaking capacity		C/L/M	L/M/H	C/L/M	L/M/H
No. of poles		3P/4P	3P/4P	3P/4P	3P/4P
Code	Accessory				
308	Alarm switch				
310	Shunt tripper				
320	Auxiliary switch				
330	under-voltage tripper				
340	Shunt tripper+Auxiliary switch				
360	2 sets of auxiliary switches				
370	Auxiliary switch+ under-voltage tripper				
318	Shunt tripper+Alarm switch				
328	Auxiliary switch+ Alarm switch				
338	under-voltage tripper+ Alarm switch				
348	Shunt tripper+Auxiliary switch+Alarm switch				
368	2 sets of auxiliary switches+Alarm switch				
378	Auxiliary switch+ under-voltage tripper +Alarm switch				
380	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.

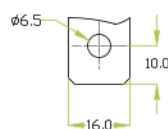
OUTLINE AND INSTALLATION DIMENSIONS

Front wiring
ASKM2RT-160Frame

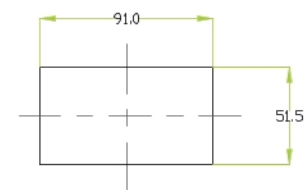
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Installation dimensions

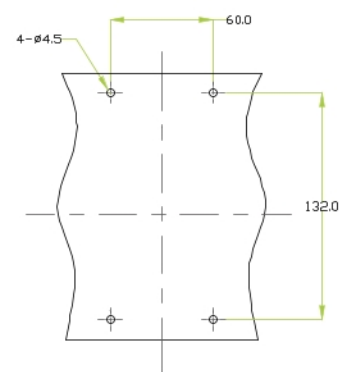
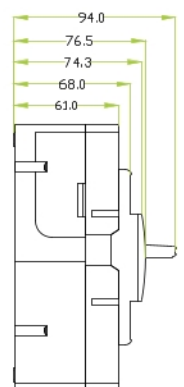
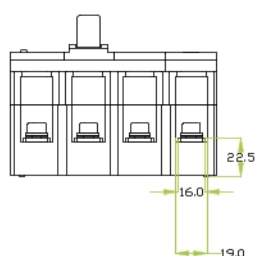
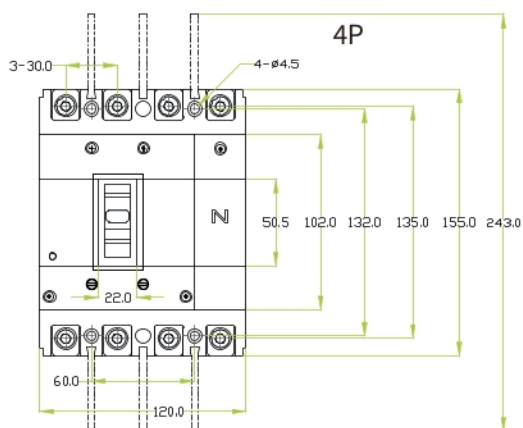
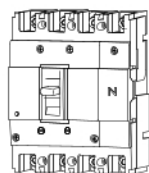


Copper bars dimensions



Installation opening dimensions of operation panel

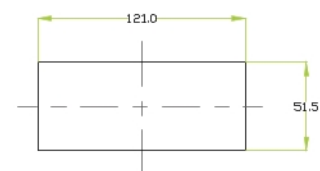
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Installation dimensions



Copper bars dimensions

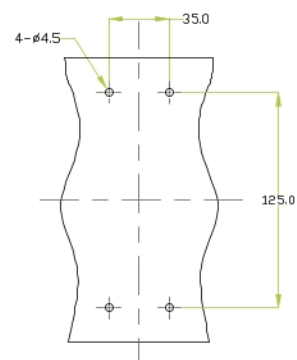
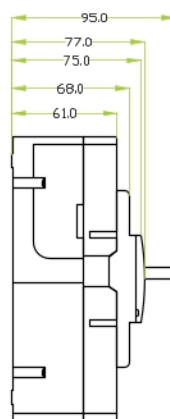
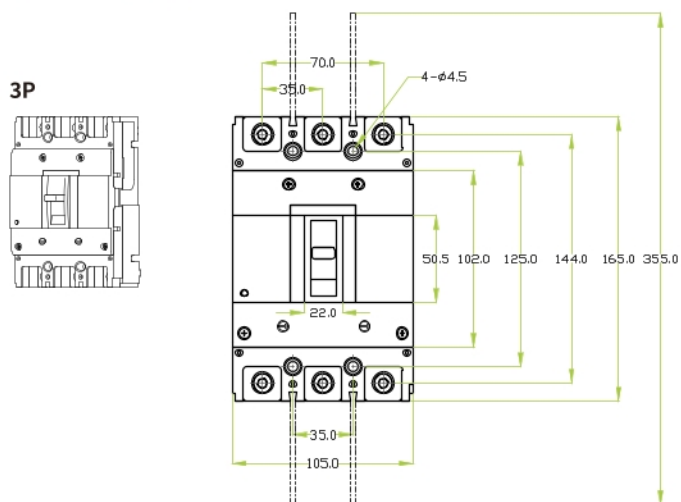


Installation opening dimensions of operation panel

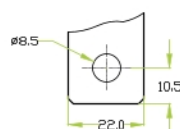
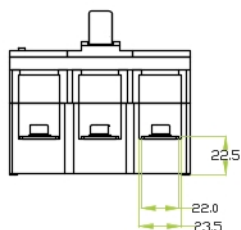
OUTLINE AND INSTALLATION DIMENSIONS

Front wiring
ASKM2RT-250Frame

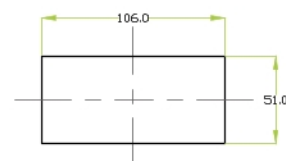
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Installation dimensions

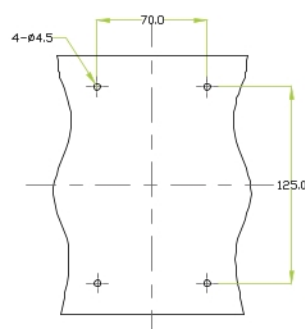
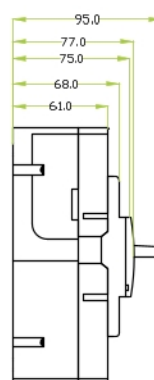
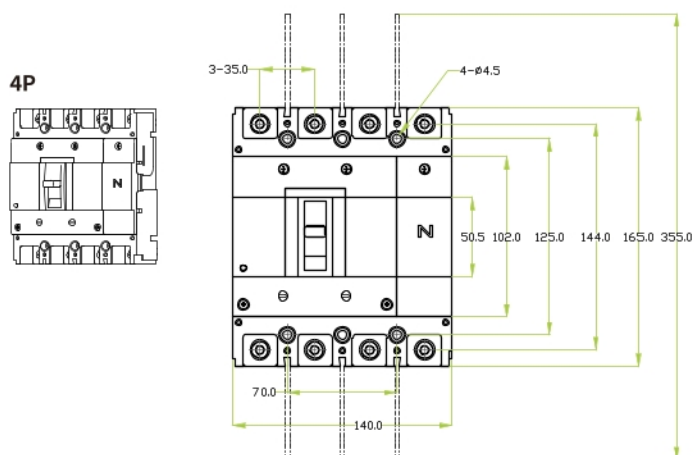


Copper bars dimensions

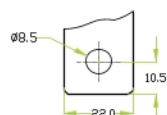
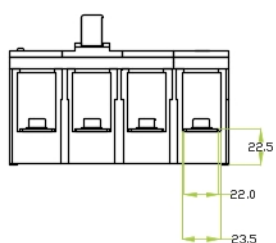


Installation opening dimensions of operation panel

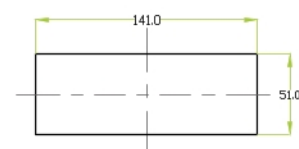
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Installation dimensions



Copper bars dimensions

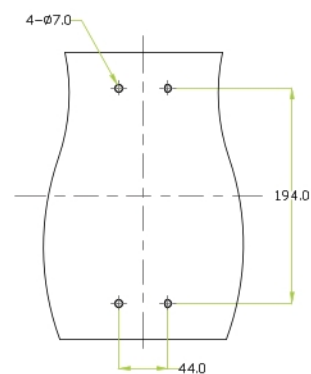
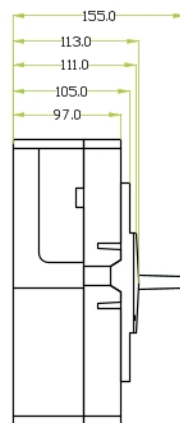
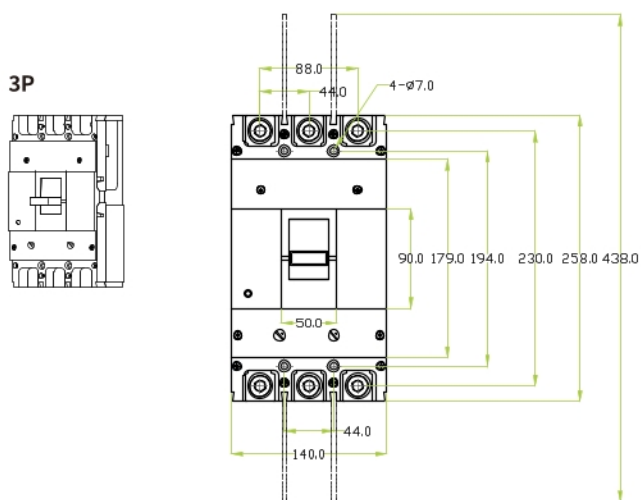


Installation opening dimensions of operation panel

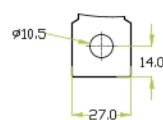
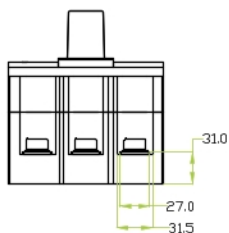
OUTLINE AND INSTALLATION DIMENSIONS

Front wiring
ASKM2RT-630Frame

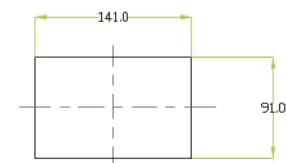
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Installation dimensions

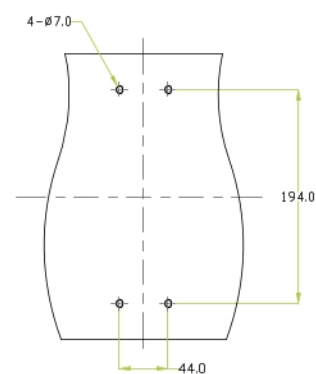
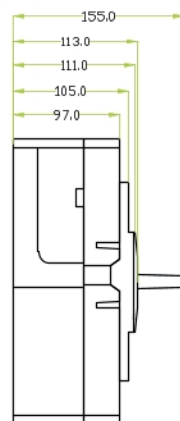
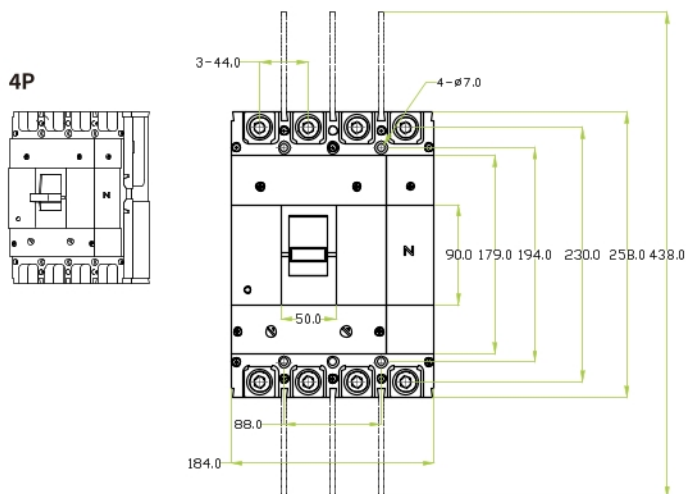


Copper bars dimensions

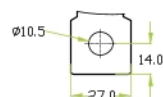
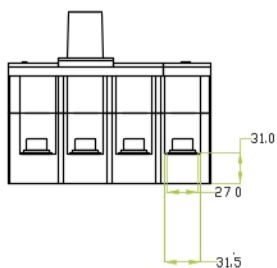


Installation opening dimensions of operation panel

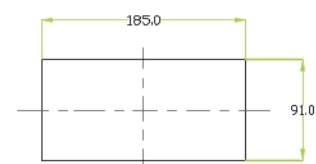
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Installation dimensions



Copper bars dimensions

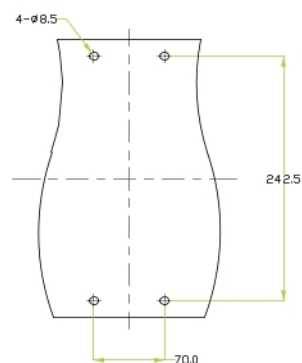
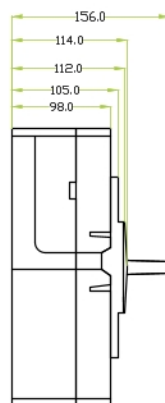
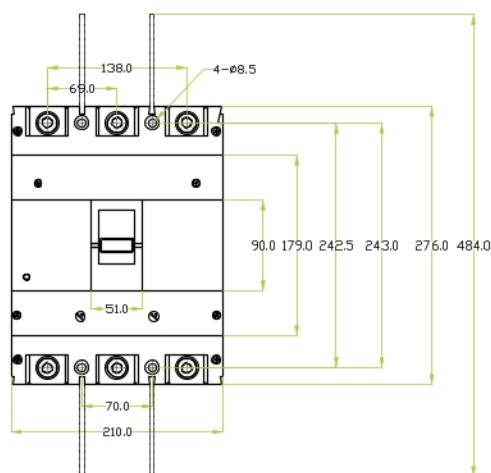
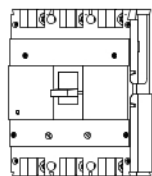


Installation opening dimensions of operation panel

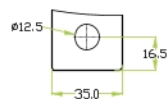
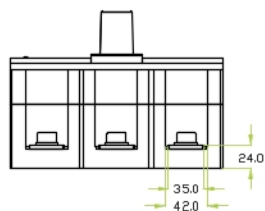
OUTLINE AND INSTALLATION DIMENSIONS

Front wiring
ASKM2RT-800Frame

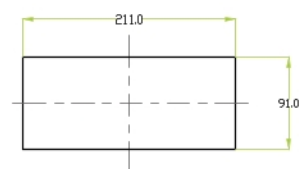
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Installation dimensions

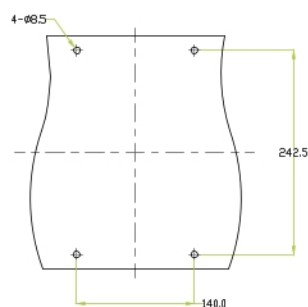
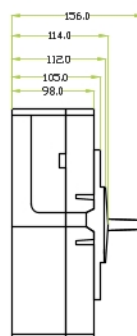
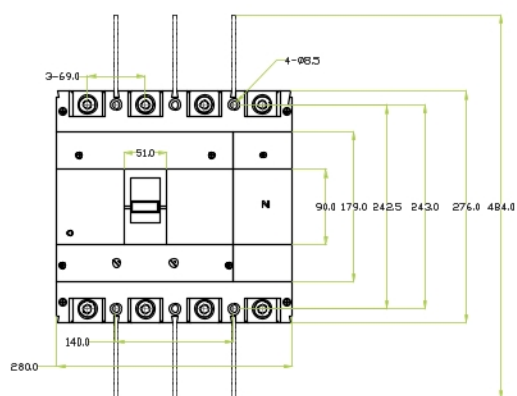
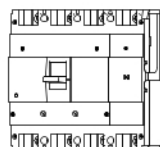


Copper bars dimensions

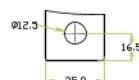
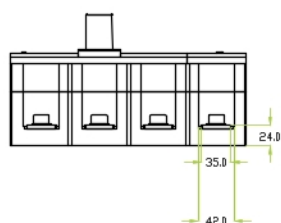


Installation opening dimensions of operation panel

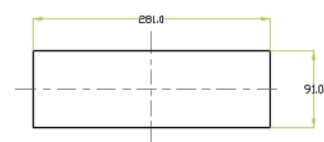
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Installation dimensions



Copper bars dimensions



Installation opening dimensions of operation panel

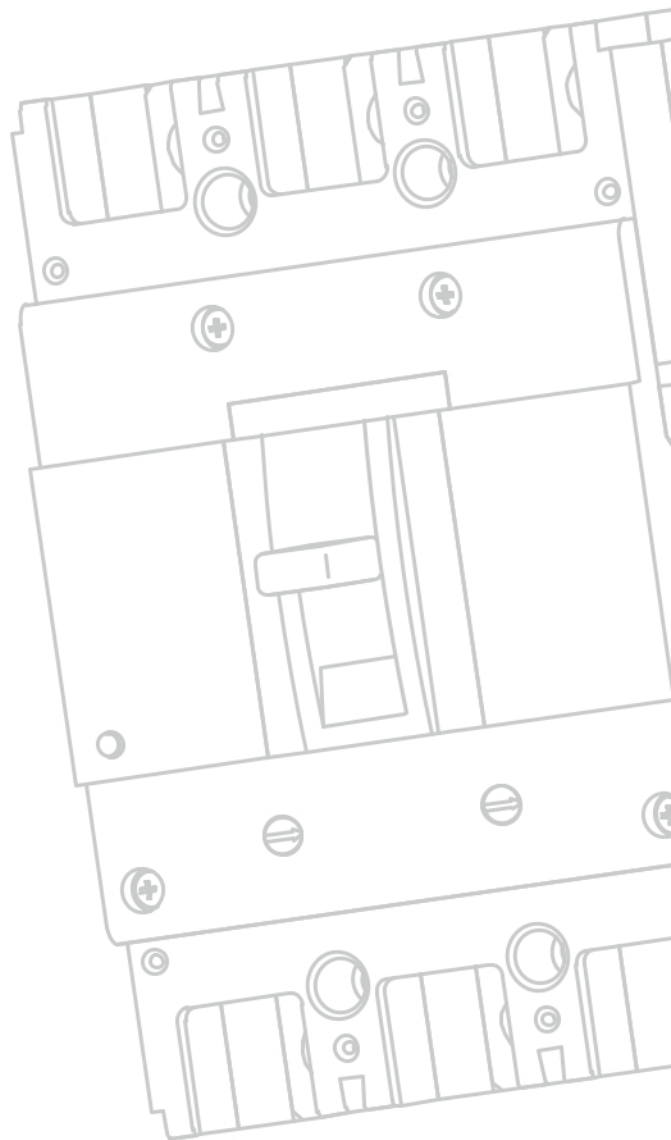
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