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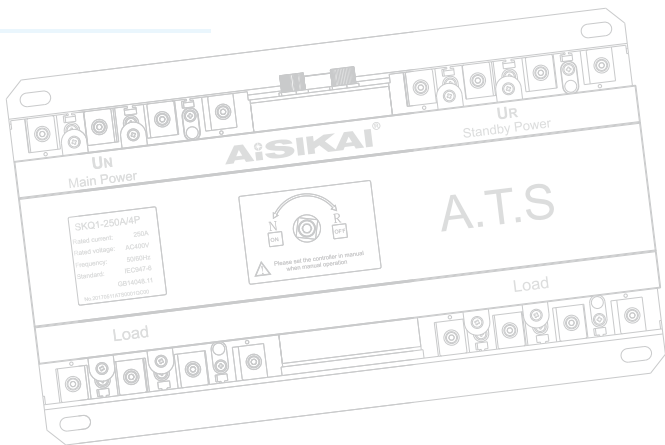
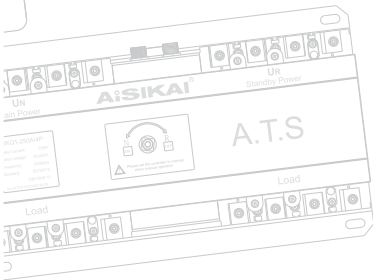
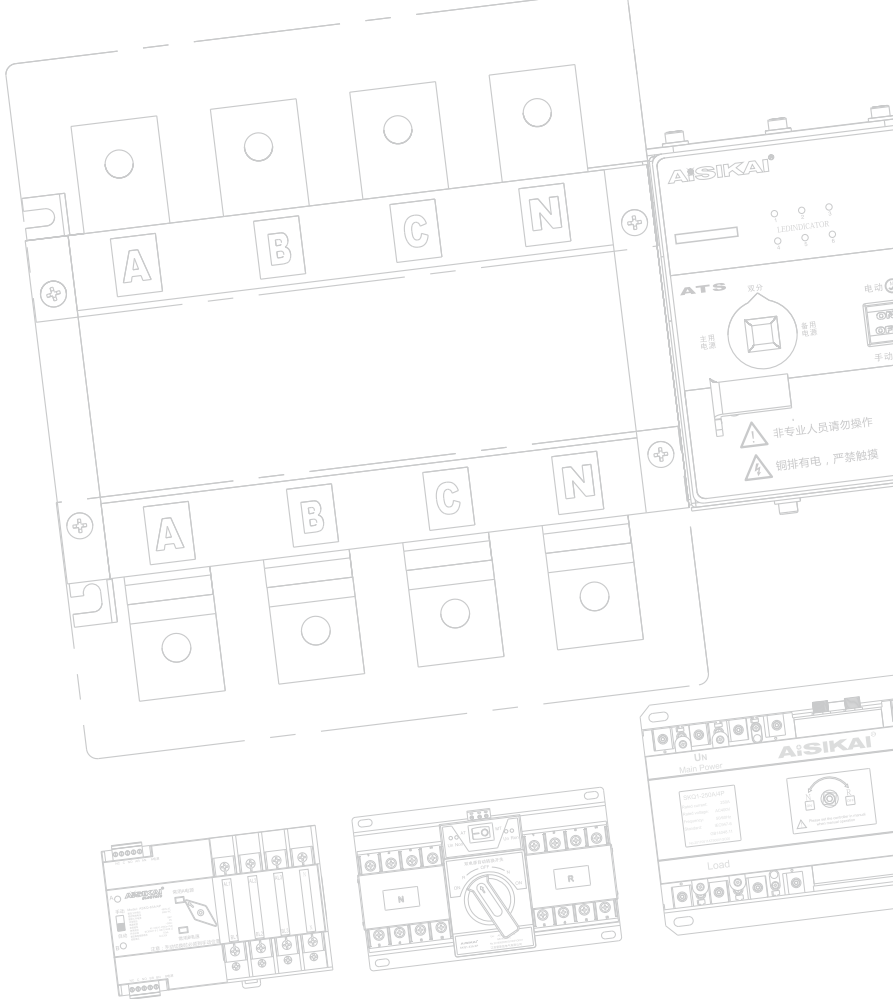


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AiSIKAI®



AUTOMATIC TRANSFER SWITCH SELECTION GUIDE

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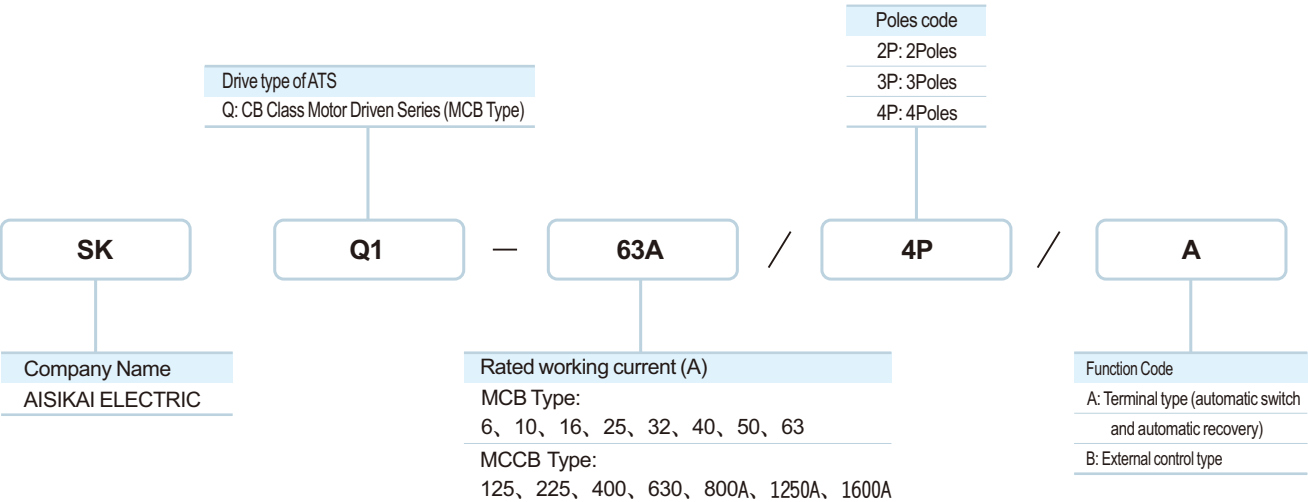
JIANGSU AISIKAI ELECTRIC CO.,LTD

SKQ1 SERIES CB CLASS ATS (MOTOR DRIVEN TYPE)

PRODUCT OVERVIEW

● SKQ1 series dual power automatic transfer switch is the second generation ATS. It is CB Class and its usage category is AC-33B non-frequently operable electrical transfer switch. It has 3 working modes: Automatic(Type A), Electric(Type B) and Emergency Manual. ASKQ is suitable to be used in the 50/60Hz low voltage AC power distribution systems for the reliable transfer between two power supplies.

QUICK SELECTION TABLE



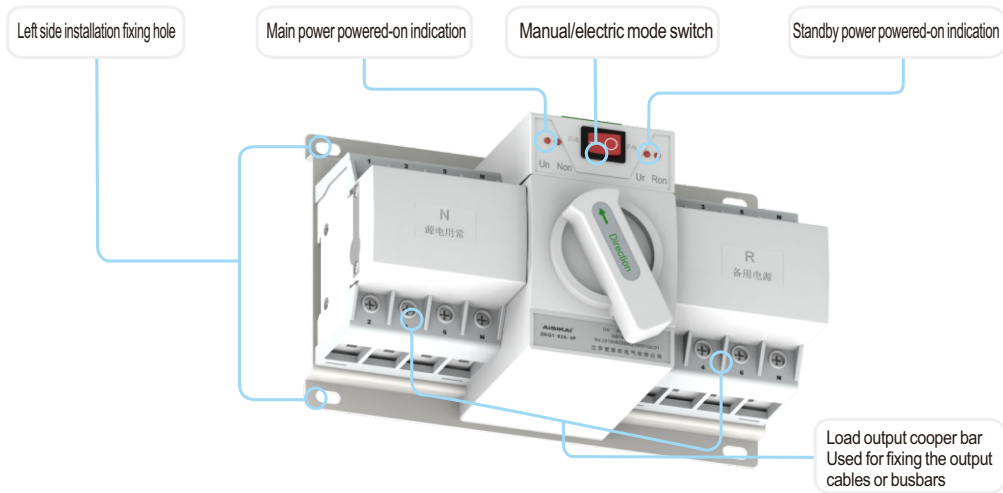
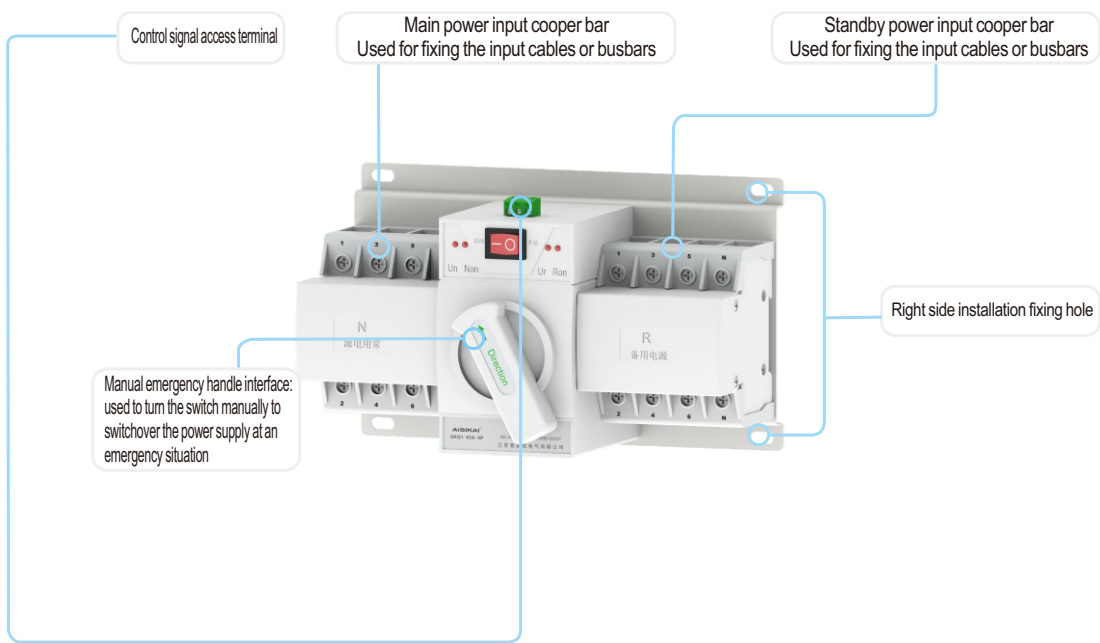
PERFORMACE CHARACTERISTICS

- Reasonable in structure, small in volume, beautiful in appearance. Much safer and more reliable in power supply with the protective cover.
- Complete protection functions, provided with protection of short-circuit, overload and etc.
- Noise-free operation, energy saving and consumption reducing, convenient in installation, easy in operation, reliable and stable in performance.
- The interior adopts D type miniature circuit breaker .

Normal working conditions and installation methods

Category	Requirements
Operating temperature	-5 to 40℃ . The average value for 24 hours shall not exceed +35℃ ;
Operating humidity	The average humidity at +40℃ shall not exceed 50% ; higher humidity is allowed at a lower temperature, for example, 90% at +25℃ . Special measures should be taken when occasionally there is condensation on the products due to temperature changes
Altitude	Lower than 2000 meters and, if higher than 2000 meters, please use reduce product rated value for use
Vibration and gas	There shall be no strong vibration or shock and no harmful gases to corrode the metals and to damage the insulation within the environment of its use
Surrounding material	There shall be no serious dust, conductive particles or explosive hazardous substances
Class of pollution	Class III in accordance with GB/T14048.11
Installation category	Category III in accordance with GB/T14048.11

STRUCTURE INTRODUCTION (SKQ1 6A~63A)



MAIN TECHNICAL PARAMETERS

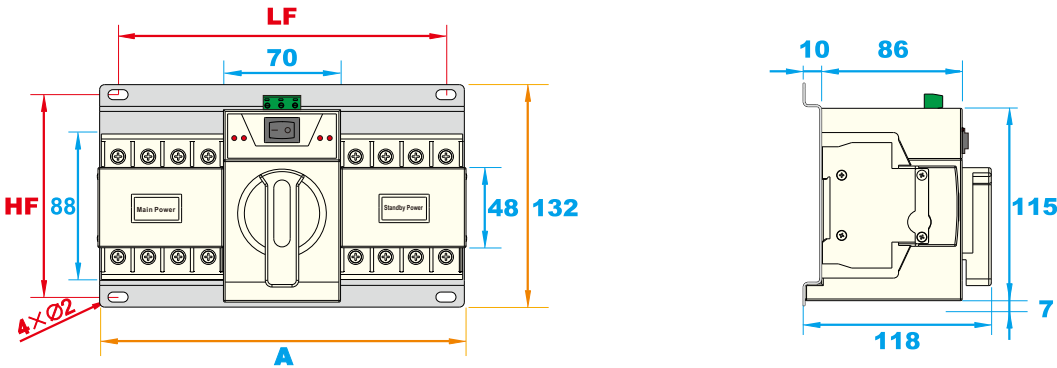
Rated short-circuit breaking capacity	5KA
Rated short-circuit making capacity	5KA
Transfer time	≤3s
Control voltage of transfer switch	230V
Service life of transfer switch	Mechanical: 3000 times; Electrical: 1500 times
Rated insulation voltage of copper bar Ui	U=400V
Rated operating voltage of copper bar Ue	2P switch is AC220V
Rated operating current of copper bar Ie	10A、16A、20A、25A、32A、40A、63A

Making and breaking capacity

Usage category	Making and breaking test conditions					
	L/Ie	u/ue	cosΦ	Power-on time (s)	Cycle period (min)	Operating cycles
AC-33iB	6.0	1.05	0.5	0.05	≤5	12

Note: The motor load under the non-frequent operation of AC-33iB may include the hybrid load of the motor and the resistance load.

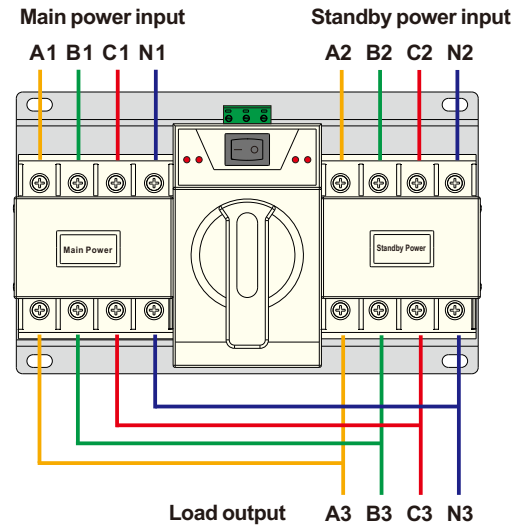
OUTLINE DIMENSIONS DIAGRAM



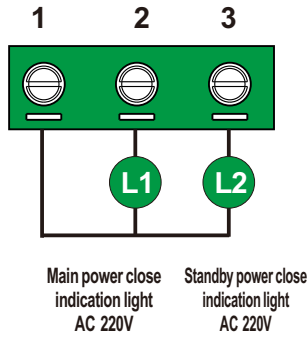
	LF	HF	A
4P	200	120	220
3P	164	120	184
2P	128	120	148

TYPICAL WIRING DIAGRAM

Primary wiring schematic diagram



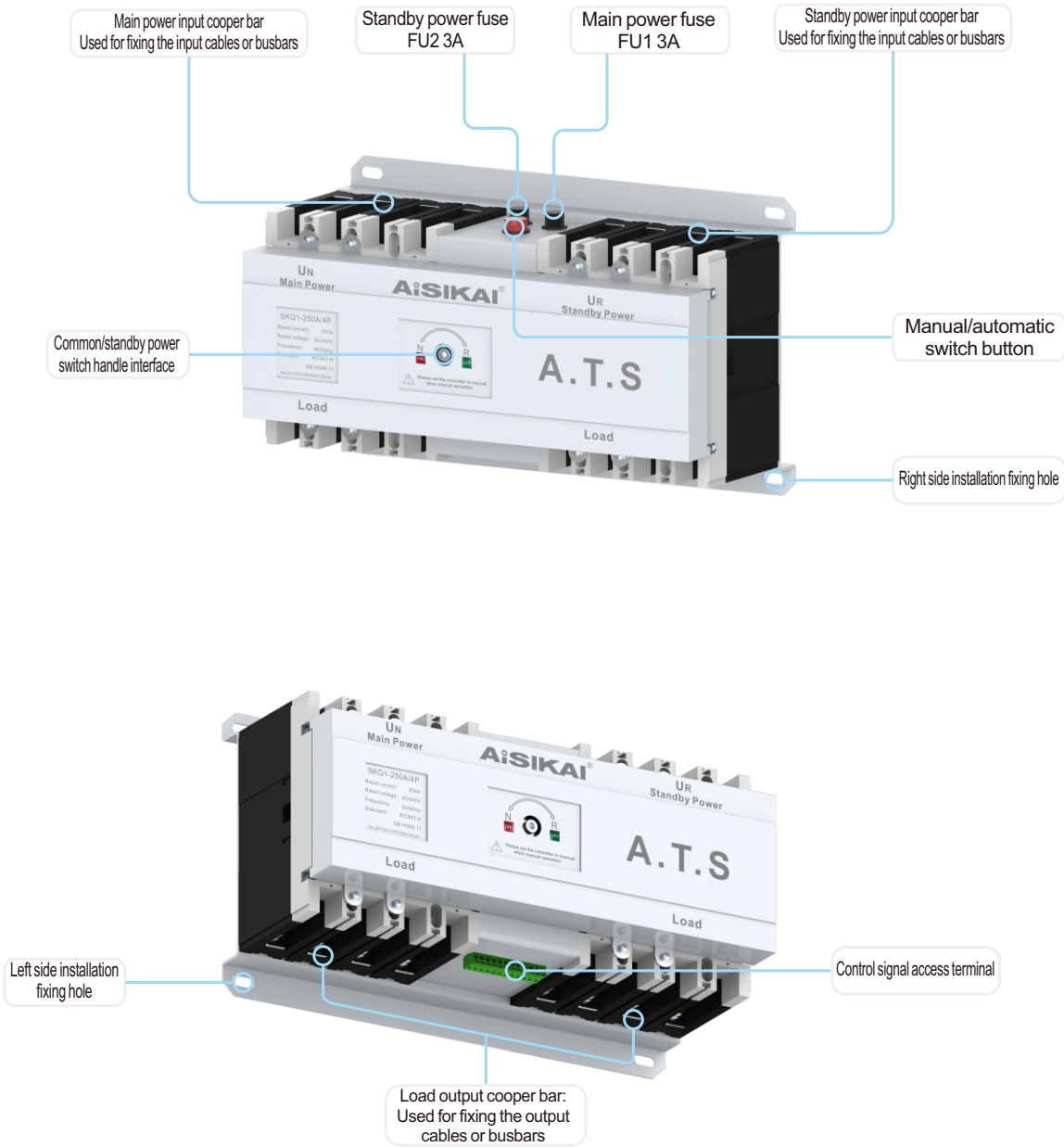
Secondary wiring schematic diagram



Note:

1. According to the actual requirements of distribution line, connect the main power and standby power input terminals properly and, having verified that the phase sequences of both power supplies are consistent, connect the load output terminals in parallel.
2. When needing manual operation, first set the button in Manual position, then turn the handle to transfer.

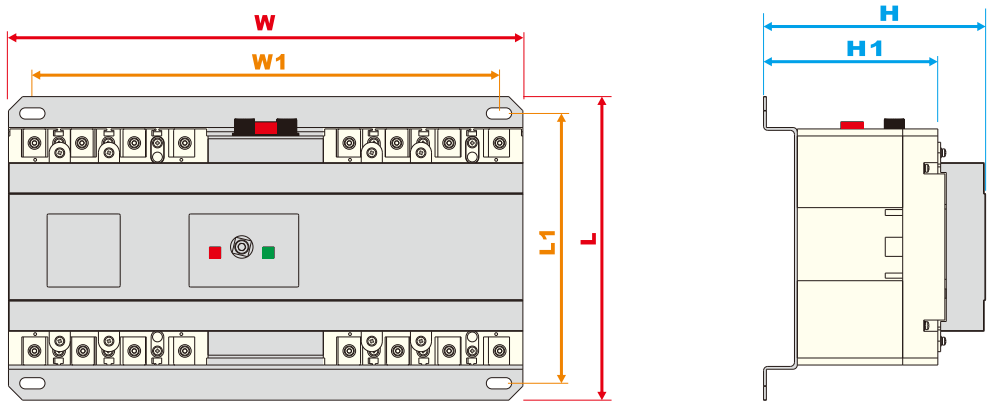
STRUCTURE INTRODUCTION (SKQ1 125A~630A)



MAIN TECHNICAL PARAMETERS

	SKQ1-125	SKQ1-250	SKQ1-400	SKQ1-630	SKQ1-800	SKQ1-1600
Usage category	AC-33iB					
Rated current Ie	63A、80A、100A、125A	140A、160A、200A、250A	400A	400A、500A、630A	630A、720A、800A	1000A、1250A、1600A
Rated working voltage Ue	AC400V					
Rated insulation voltage Ui	690V					
Rated short time withstand voltage Icw	10kA	10kA	12.6kA	12.6kA	12.6kA	12.6kA
Rated short-circuit making capacity Icm	17kA	17kA	25.2kA	25.2kA	25.2kA	25.2kA
Service life	Mechanical		10000			
	Electrical		5000			
Pole numbers	3P、4P					
Test operating cycles(seconds/time)	15s					
Transfer time	1~99s(delay)					

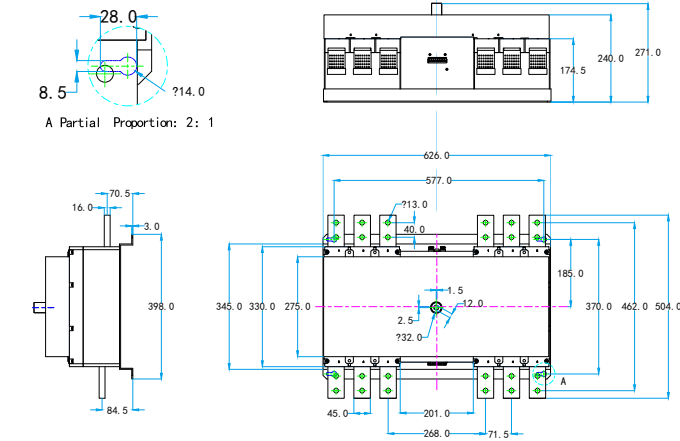
Outline and installation dimensions



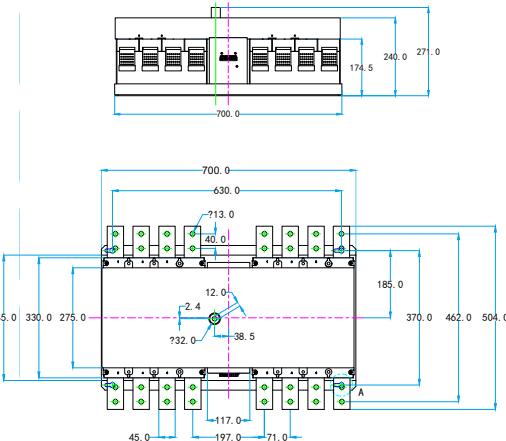
规格	尺寸	W	L	H1	H	W1	L1
125A/3P		289	207	87	122	255	184
125A/4P		317	210	87	122	278	184
250A/3P		330	215	106	139	296	193
250A/4P		365	215	104.5	139	332	193
400A/3P		459	306	125	190	408	284
400A/4P		507	306	125	190	456	284
630A/3P		529	313.5	132	199.5	472	291
630A/4P		587	313.5	132	199.5	530	291
800A/3P		606	336	134.5	202	555	313
800A/4P		675	336	134.5	202	623	313

INSTALLATION DIMENSIONS(1000~1600A)

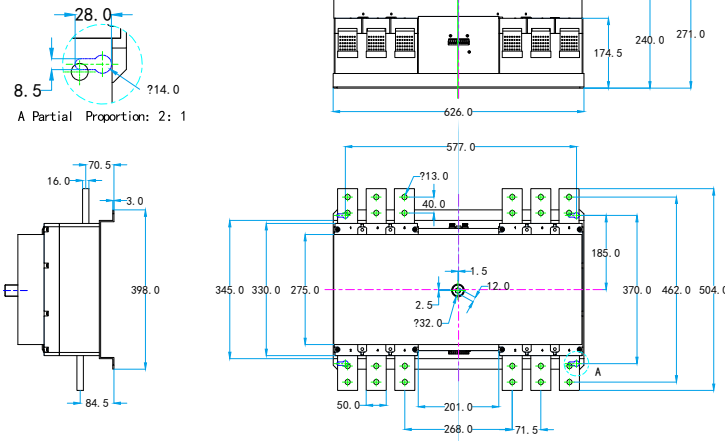
SKQ1-1250A-3P



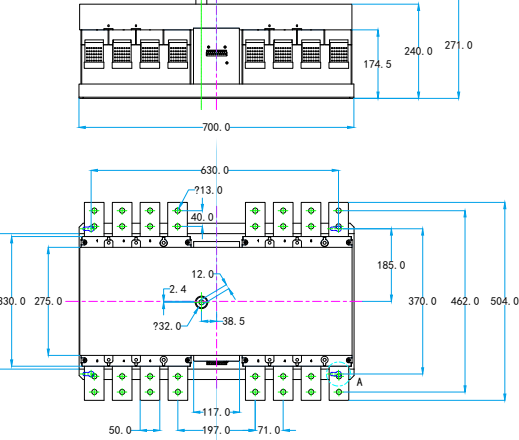
SKQ1-1250A-4P



SKQ1-1600A-3P

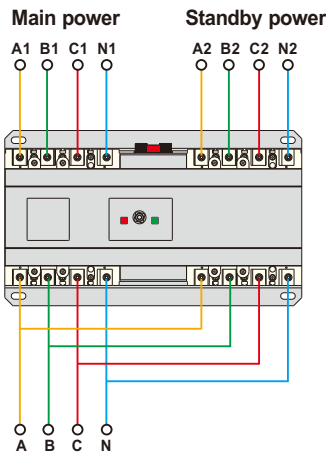


SKQ1-1600A-4P

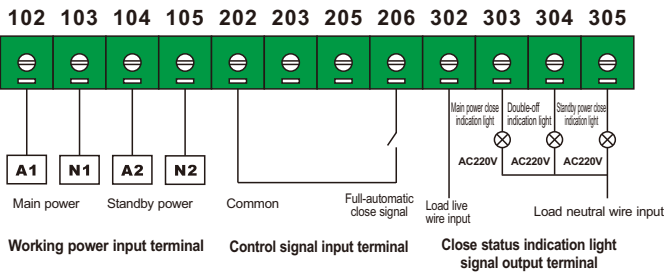


WIRING DIAGRAM

Primary wiring schematic diagram



Secondary wiring schematic diagram: full-automatic transfer



Secondary wiring schematic diagram: remote control electrical transfer

