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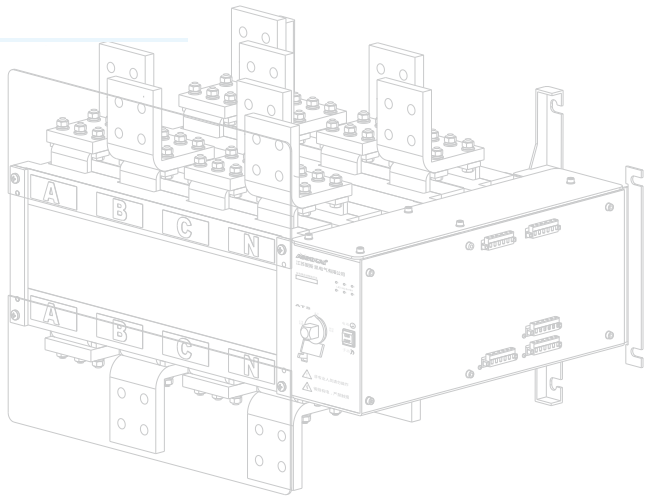
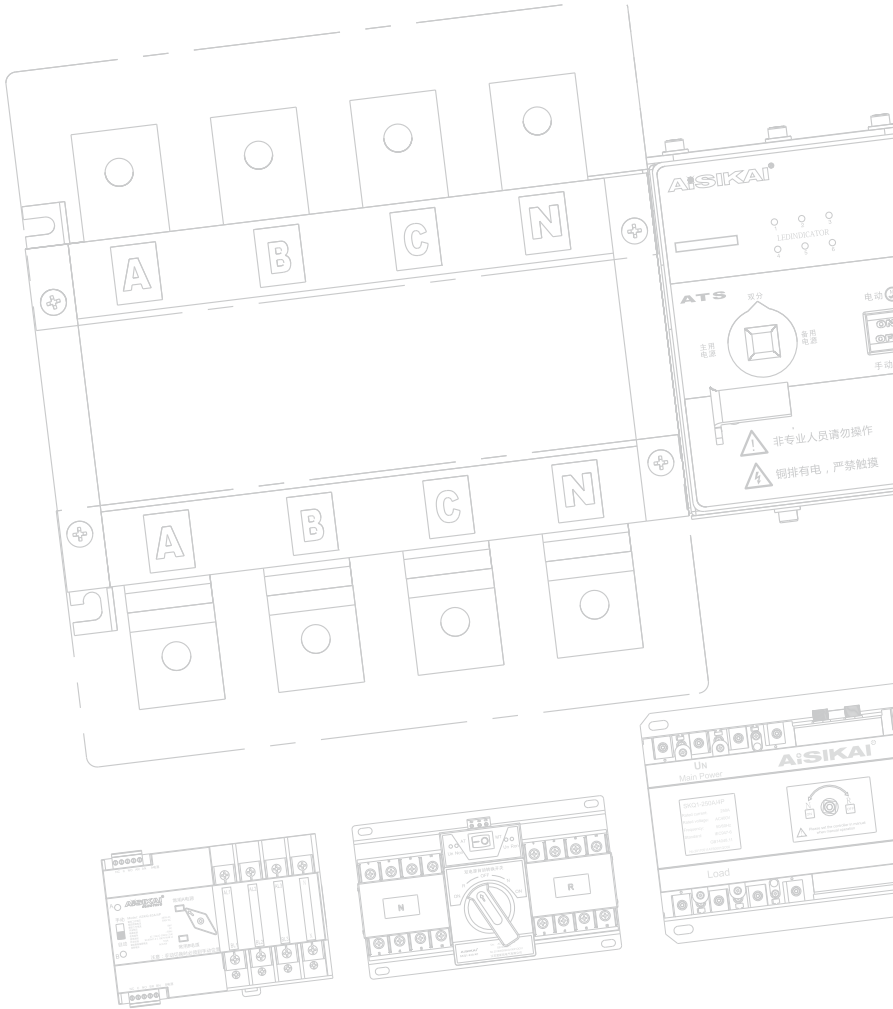
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# AUTOMATIC TRANSFER SWITCH SELECTION GUIDE

JIANGSU AISIKAI ELECTRIC CO.,LTD  
www.aisikai.cc

YANGZHOU AISIKAI AUTOMATION TECHNOLOGY CO.,LTD  
www.aisikai.org

Tel: +86-514-83872777 83872888  
Fax: +86-514-83872000  
Free Service Telephone: 800-828-6568  
E-mail: aisikai@aisikai.cc  
Factory Add: NO.5 Chuangye Road, Chenji Industrial Zone,  
Yizheng City, Jiangsu Province China

JIANGSU AISIKAI ELECTRIC CO.,LTD

PRODUCTS CONTENTS

03	Product overview
05	<b>SKT1, SKT2 series PC class intelligent ATS (motor driven type)</b>
10	Main technication parameters
11	Outline and installation dimensions
15	Internal principle schematic diagram & secondary wiring schematic diagram
17	<b>SKT1-D series direct current intelligent ATS (motor driven type)</b>
20	Main technication parameters
21	Outline and installation dimensions
23	Internal principle schematic diagram & secondary wiring schematic diagram
25	<b>SKT3 series PC class intelligent ATS (motor driven type)</b>
27	Main technication parameters & outline and installation dimensions
28	Internal principle schematic diagram & secondary wiring schematic diagram
30	<b>SKS series manual dual power transfer switch</b>
32	Outline and installation dimensions & primary wiring schematic diagram
33	<b>ASKQ series PC class intelligent ATS (electromagnetic driven type)</b>
35	Household type main technication parameters
35	Outline dimension drawing & typical wiring diagram
37	2-stage type ATS Main technication parameters & outline and installation dimensions
41	High current type ATS Main technication parameters & outline and installation dimensions
42	Internal principle schematic diagram & secondary wiring schematic diagram
45	<b>SKQ1 series intelligent ATS (motor driven type)</b>
47	MCB type main technication parameters
47	Outline and installation dimensions & secondary wiring schematic diagram
50	MCCB type main technication parameters
51	Outline and installation dimensions & secondary wiring schematic diagram

COMPANY PROFILE

Since established in 2007, JIANGSU AISIKAI ELECTRIC CO.,LTD has been committed to the R&D, manufacture and marketing of the high-quality low voltage electric switch. Our product line covers level I、II、III power distribution field . We are awarded as the " National High Tech Enterprise " and " Contract-respecting and Promise-keeping Enterprise " and own UKAS ISO9001 Quality Management System Certification , the European Certification CE and SGS Global Qualified Supplier Certification . So far , We have several invention patents , utility model patent,appearance patent All products have Chinese Compulsory Certification CCC . From 2014 , we have been recognized as " Yangzhou City Engineering Technology Center"and" Chinese Adopting International Standard Unit".

“QUALITY 、 SERVICES 、 REPUTATION 、 INNOVATION ” is AISIKAI company everlasting enterprise development concepts , we actively pursue progress , always standing inthe customer's point of view and improvement, we believe, AISIKAI IN your support and love, will flourish, vibration of wings and fly!

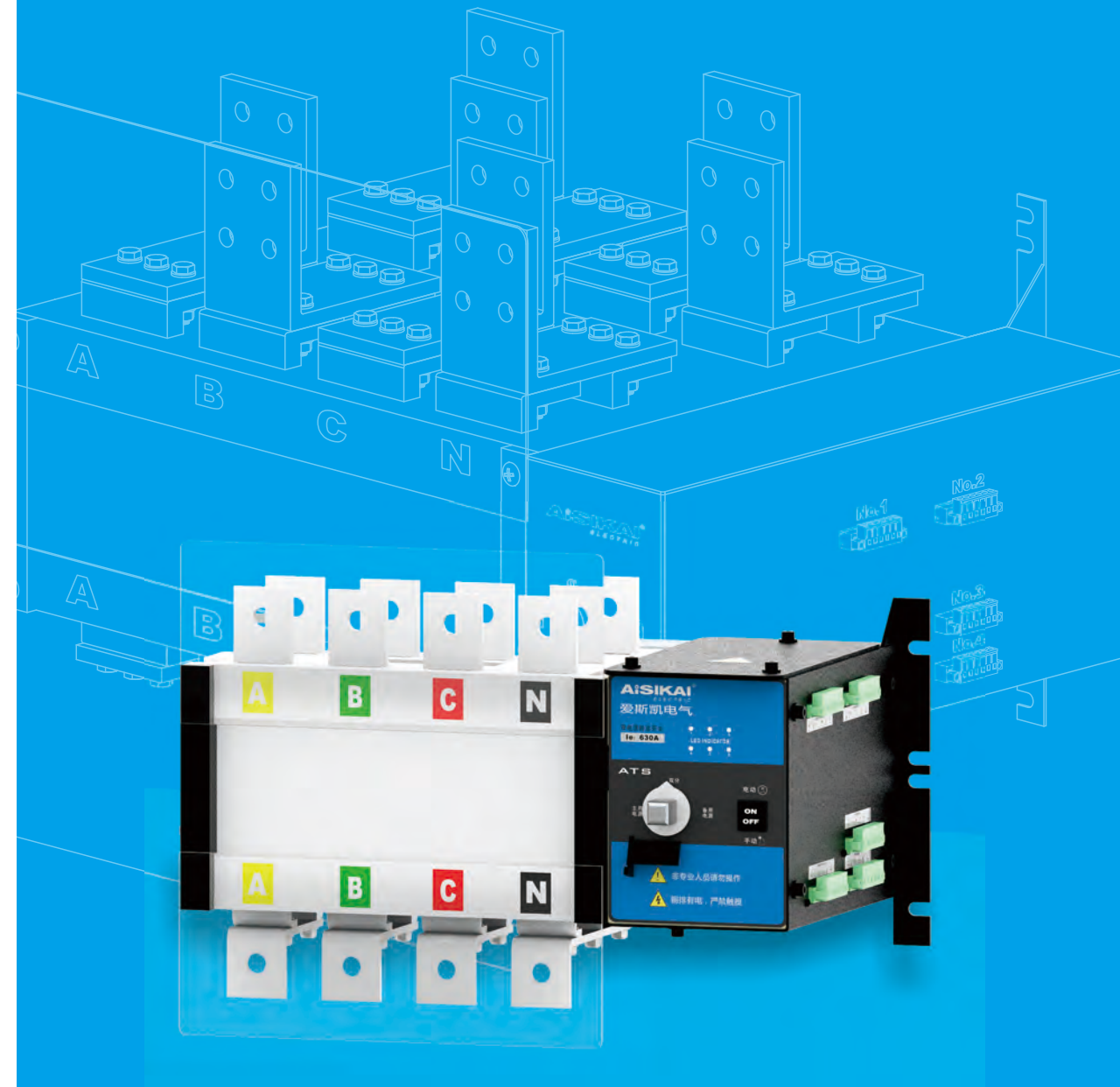






## AUTOMATIC TRANSFER SWITCHES

AiSIKAI®



# ATS



## Intelligent Dual Power Automatic Transfer Switch

### Wide Range & Perfect Function

AiSIKAI Automatic Transfer Switch consists of SKT, SKQ and ASKQ series. We provide perfect solution with product from general performance CB class to high performance PC class, from none-frequently transfer to frequently transfer. Our product covers a wide current range from 6A to 6300A innovatively, and easily meets the various requirements of load in civil, industrial and commercial fields. Our product is suitable for 1, 2, 3 classes of low voltage power distribution system. Our perfect feature configuration satisfies the power switching between utility-utility, utility-generator, generator-generator and more load's uninterruptible backup power supply. Our product is in compliance with related IEC/GB technical standards, is manufactured according to international standards, and has obtained Chinese compulsory certificate (CCC) and European certificate (CE).



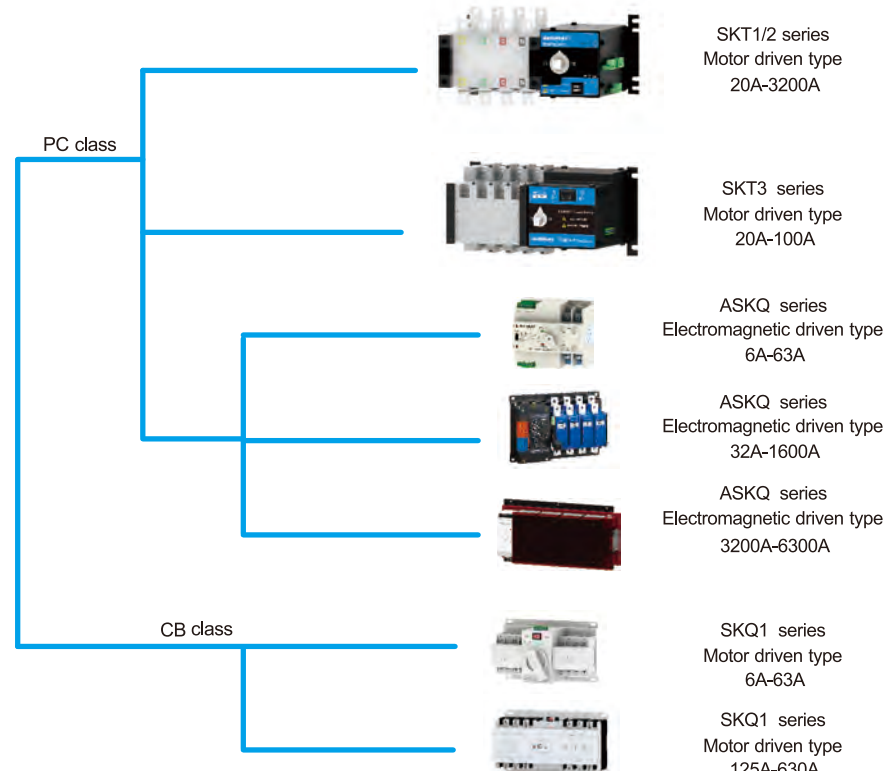
### Application field



### Applicable standard

GB10963.1-2005  
IEC60898-1-2002

ATS product line



### High Technology Product

SKT series ATS with leading structural design and innovative patented technology, has obtained the National High-Technology Product Certificate (Reference Number 141081G0537N), is in accordance with the standards of IEC60947-1/ IEC60947-3/ IEC60947-6-1/GB14048.1/GB14048.3/ GB14048.11, follows international production standards and has obtained Chinese compulsory certificate (CCC) and European certificate (CE).

### Ultra-thin Volume, Residential Star Product

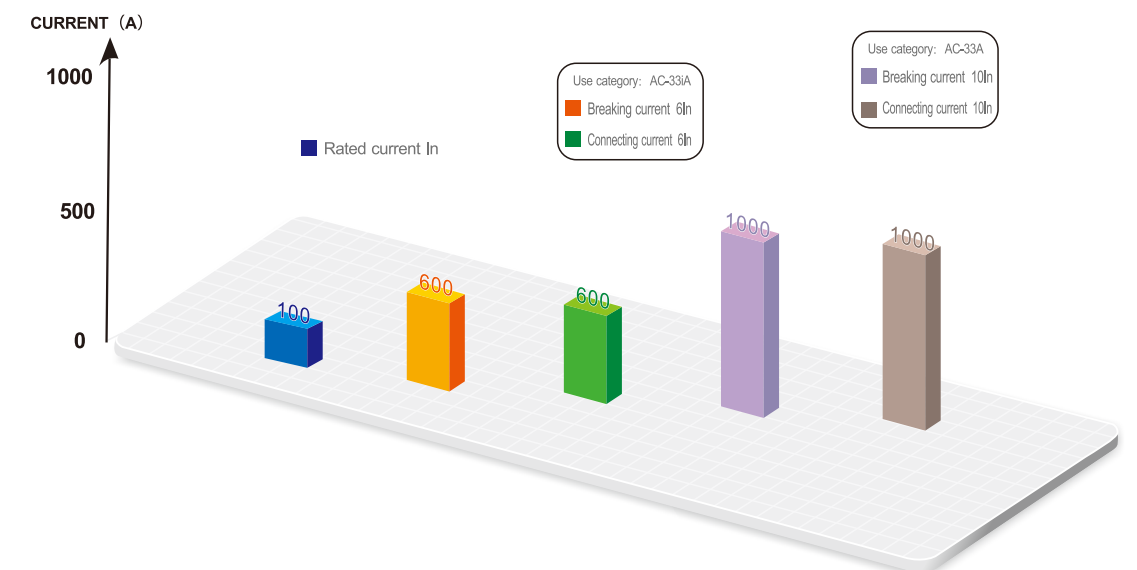
ASKQ series (6A~63A) ATS is our new product developed according to the international residential demand. It has four working modes: Automatic, Remote control, Manual and Lock. When companied with mini-type generator, ASKQ satisfies the uninterruptible backup power supply requirements of places like family residence, villa, private club and etc.

### Ultra-high Current, Industrial Specialized Product

ASKQ (3200A~6300A) series ATS is one high performance product developed for the low voltage high current special industrial equipment. It is suitable for industries like mining, oil exploitation and so on, and also works as main power switch in the civil/commercial primary distribution system.

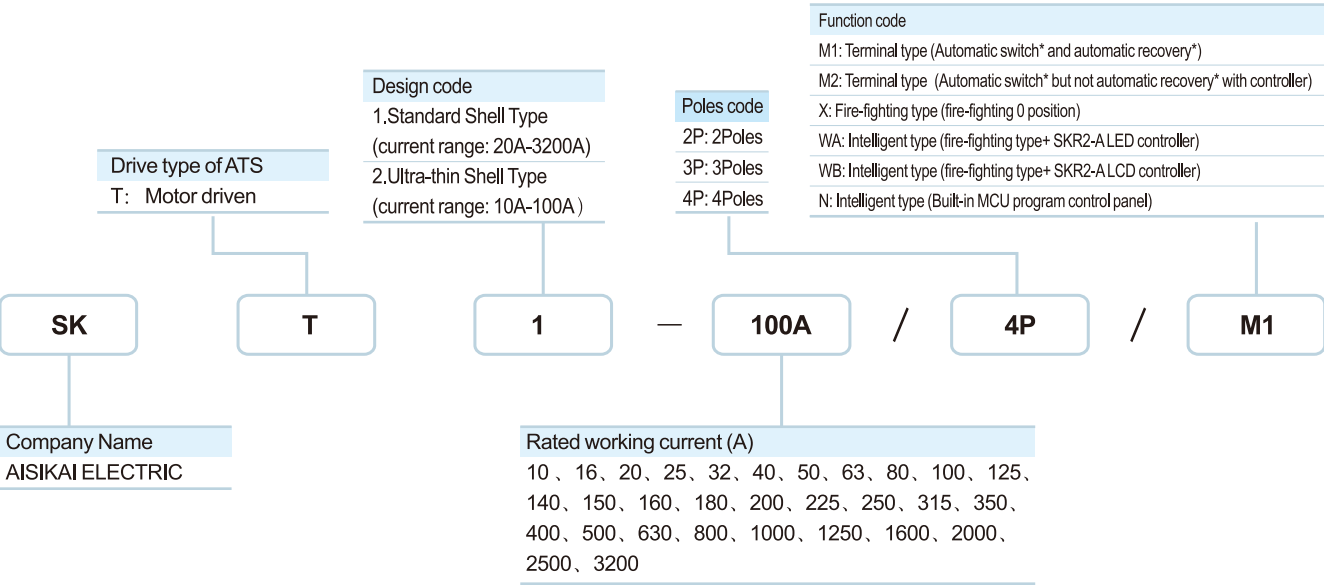
### Highest Grade Usage Category AC-33A

SKT series automatic transfer switch(ATS) reaches the highest AC-33A, covers most of the mixed loads requirements in areas like civil, industry, aviation, traffic, etc. ATS can be operated frequently. Its breaking and connecting capacity is up to 10 times the rated current, which is 67% higher than the Grade AC-33iA ATS.





SKT1, SKT2 series PC class intelligent ATS (motor driven type) quick selection table



PRODUCT OVERVIEW



Classification

- SKT series dual power automatic transfer switch is the most advanced third generation product. Its class is PC and its usage category is AC-33A frequently operate electrical transfer switch. It's suitable to be used in 50/60Hz 10A-3200A low voltage AC power distribution system for reliable transfer between two power supplies. It has four working modes: Automatic, Electric, Emergency Manual and Locking.

- Classify by volume**  
Standard type: Type 1, 20A-3200A, 5 kinds volume specification  
Ultra-thin type: Type 2, 10A-100A, 1 kind volume specification  
Note: Ultra-thin type is 50% smaller than the standard type.

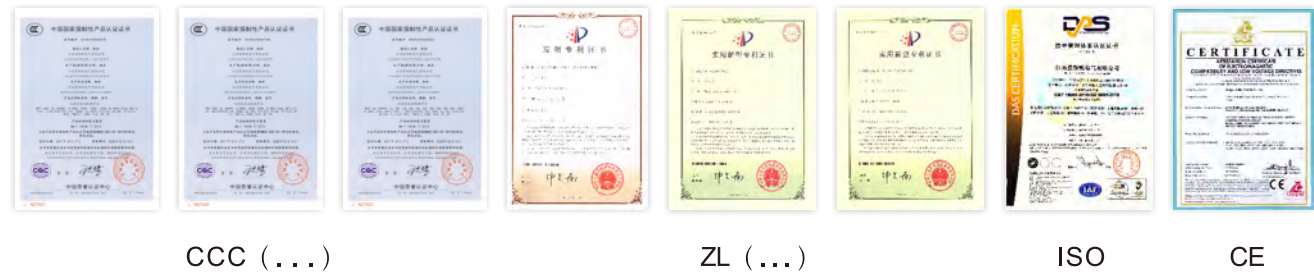
- Classify by function**  
M1: Terminal type (Automatic switch\* and automatic recovery\*)  
M2: Terminal type (Automatic switch\* but not automatic recovery\* with controller)  
X: Fire-fighting type (fire-fighting 0 position)  
WA: Intelligent type (fire-fighting type+ SKR2-ALED controller)  
WB: Intelligent type (fire-fighting type+ SKR2-ALED controller)  
N: Intelligent type (Built-in MCU program control panel)

- Classify by poles**  
2P: 2 poles, 1 phase and 2 lines  
3P: 3 poles, 3 phases  
4P: 4 poles, 3 phases and 4 lines

Application field



Qualification documents



Applicable standard

GB/T14048. 11 IEC60947-6-1

Normal working conditions and installation methods

Category	Requirements
Operating temperature	-20 to 45℃. The average value for 24 hours shall not exceed +35℃ ;
Operating humidity	The average humidity at +40℃ shall not exceed 50% without condensation;
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
IP rating	IP20
Storage requirements	To be stored under -30 to 70℃ and in a dry, non-corrosive and saline environment and the longest period of storage shall be 1 year
Packing	630A and below packed in carton boxes; 800A and above packed in wooden boxes
Stacking	630A and below stacked no more than 5 layers; 800A and above stacked no more than 3 layers.
Installation	Vertically or horizontally. Upside down installation is not allowed
Wiring	Standard wiring is upper in and lower out. Wiring reversely (lower in and upper out) can be customized.



## ADVANTAGE OF RAW MATERIALS



99.9% High Purity T2 Copper Material

### ● 99.9% High Purity T2 Copper Material

The moving and fixed contacts are manufactured with T2 copper material. The surfaces are processed with pure silver electroplating technology, achieving a much higher breaking capacity than the welding silver-point switches.

### ● DMC Main Body

The main body is made of glass fiber reinforcing unsaturated polyester material(DMC), which has extremely high mechanical strength and insulation performance. Compared with the ordinary ABS, DMC has advantages in high strength, corrosion resistance and fire retardancy.

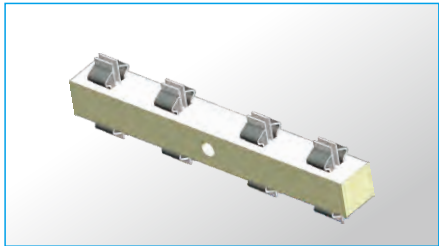
### ● Self-restoring Drive Motor

Select polychloroprene rubber insulation damp & heat type motor or permanent-magnet synchronous motor (patent technology), which is large in torque, low in noise, long in service life. Motor is provided with overheating and over-current self-restoring protection, and is better than that of the electromagnet in the comprehensive performance.

### ● Components Brand Assurance

The electronic components adopted are those of the well-known brands. The master control boards are produced in the domestic first-tier electronic OEM factory. The boards are treated with three-proofing process, thus making them reliable in use, high in performance and long in service life.

## STRUCTURAL DESIGN



Double-row composite contacts

### ● Double-row composite contacts

A double-row composite design is adopted for the moving contacts, the conductive area of which is twice as much as that of the single-sided contact switches.

### ● Transverse-pull moving mechanism

The moving contact makes reciprocating motion in the transverse direction, which has the advantages of zero arc and high safety factor as compared with the longitudinal separation type switches.

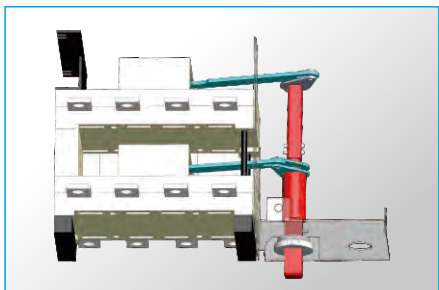
### ● Double interlocking mechanically and electrically

The precise mechanical design ensures complete separation between the two power supplies and the logical management of the control circuit board achieves the electrical interlocking.

### ● Safety zero position

All the products of this series have a safety zero position, which is used to cut off both the two power supplies simultaneously, thus making them better than the two-stage switches in the safety performance.

## FUNCTIONAL ADVANTAGES



Mechanical interlocks

### ● Prevention of early failure and damage to equipment

In each piece of the moving contact, a high strength spring leaf made of the silicon manganese steel is fixed reliably in the base and the pressure between the moving and the fixed contacts is kept constant during the transfer process and after the closing of the switch.

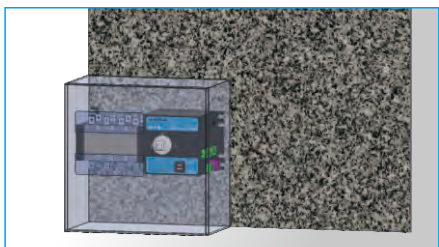
### ● Load isolation function

The precise safe distance can isolate effectively the power supply from the load and meet the creepage requirements, is provided with the obvious on-off position display and can be operated under a load.

### ● Zero line overlapping switching

This patented function is used to prevent the equipment from being damaged caused by the zero line potential drift, when the switch is switching (optional function)

## PERFORMANCE ADVANTAGES



Ultra-thin design

### ● Service life

Mechanical life: ≥12000 times; Electrical life: ≥7500 times

### ● High breaking and making capacity

10 times rated current breaking capacity, 10 times rated current making capacity, 8kV rated withstand impulse voltage, 75kA rated limit short-circuit current

### ● High-grade use category

AC-33A use category, can be frequently operated, has a much wider scope of application than AC-33B none-frequently operable type.

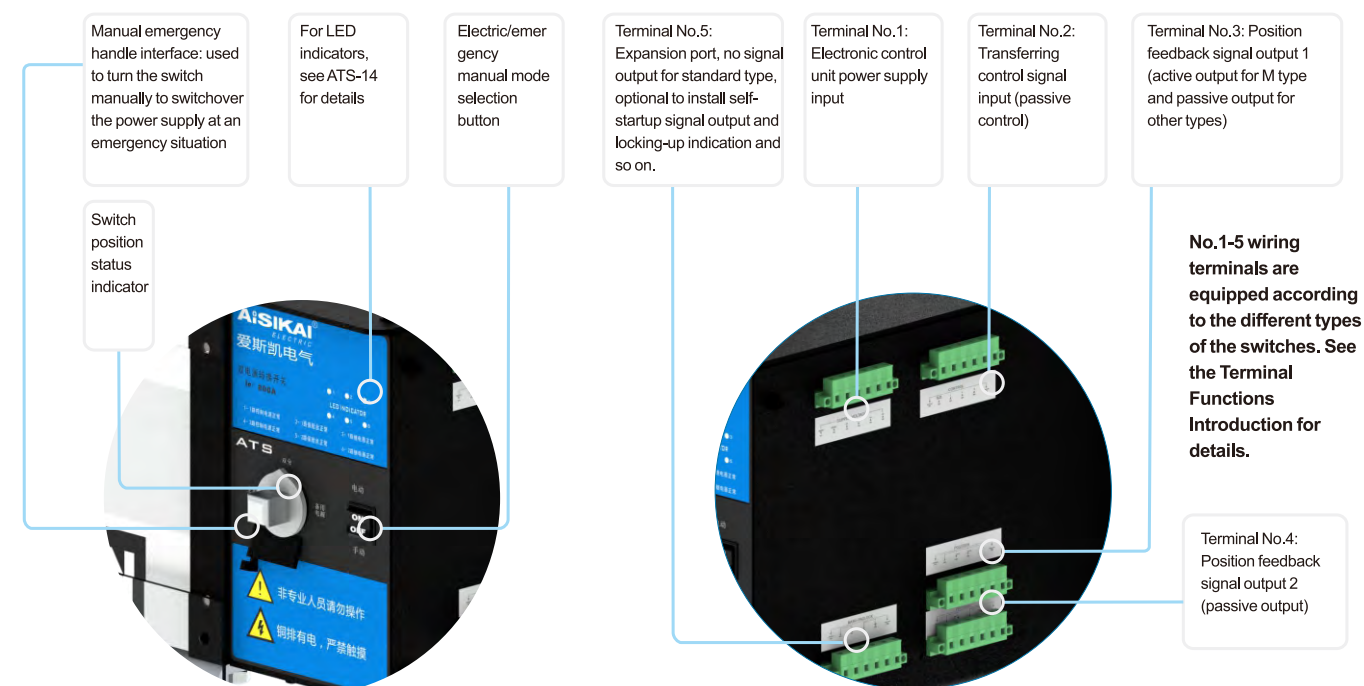
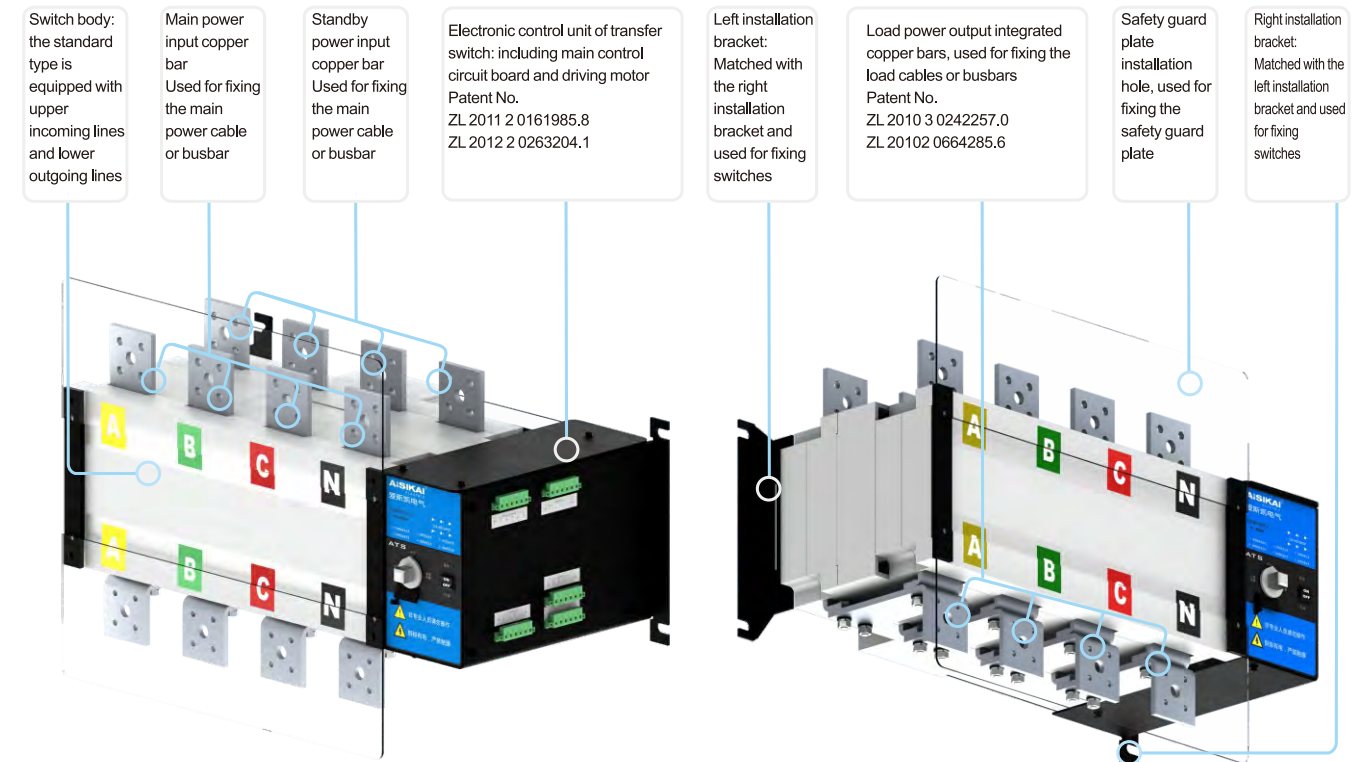
### ● Meeting Grade I and II power distribution requirements

The good electrical properties can meet the technical requirements of the Grade I and II power distribution systems and have a higher impact resistance than that of the circuit breaker type ATS to avoid the master switch from tripping caused by the short-circuit of a single load.

### ● Ultra-thin volume (20A-100A)

The precise mechanical design achieves an ultra-thin volume and the volume of an electrical box assembled is only 25% of a floor tile (60\*60) in size.

## STRUCTURE INTRODUCTION





FUNCTION CODE TABLE

Application type	Terminal type	Fire-fighting type	Intelligent type	
Function Code	M	X	W(External controller type)	N(Built-in MCU program control panel)
Structure				
Electrical two-Stage type	Y			
Electrical three-Stage type		Y	Y	Y
Manual three-Stage type	Y	Y	Y	Y
Control mode				
Controller manual/ automatic control			Y	Y
Remote electric control (external control)		Y		
Emergency manual	Y	Y	Y	Y
Fully automatic switching	Y(without fault detection)	External control	Y(with three phases fault detection)	Y(with three phases fault detection)
Locking mode	Optional	Optional	Optional	Optional
Fire-fighting signal (forced to zero)		Passive closed signal	See ATSC-03 for details	Active DC24V signal
Main/standby power monitoring and protection				
Overvoltage protection	Single phase (optional)	Single phase (optional)	Three phases (adjustable range)	Three phases (adjustable range)
Undervoltage protection	Single phase (optional)	Single phase (optional)	Three phases (adjustable range)	Three phases (adjustable range)
Lost phase protection			Y	Y
Frequency protection			See ATSC-03 for details	Y
Phase angle detection				Y
N-phase fault alarm				Y
Phase sequence inconsistency alarm				Y
Application function				
Automatic switch* and automatic recovery*	M1 (Standard products)	External control	Y	Y
Automatic switch but not automatic recovery	M2 ( Customized)	External control	See ATSC-03 for details	Settable
Main power supply is priority	Y	External control	Y	Y
Standby power supply is priority	0s或2s(Undervoltage optional)	Optional	Settable	Settable
Generator self-start signal (passive)		Optional	Y	Y
Transfer delay		External control	Adjustable	Adjustable
Power failure delay setting			Y	Y
Power recovery delay setting			Y	Y
Alarm records storage			See ATSC-03 for details	Y
Communication			See ATSC-03 for details	Y
Feedback signal	AC220V( I 、 II )	Passive( I 、 II 、 0)	DC5V( I 、 II 、 0)	
Display function				
Switch position status display	External indicator light	External indicator light	Y	Y
Voltage display			See ATSC-03 for details	Y
Frequency display			See ATSC-03 for details	Y
Current display			See ATSC-03 for details	Y

Note: The W-type is composed of a controller of corresponding functions and an X-type switch.

Y means having this function.

Automatic switch means automatic switch to standby power when main power fails.

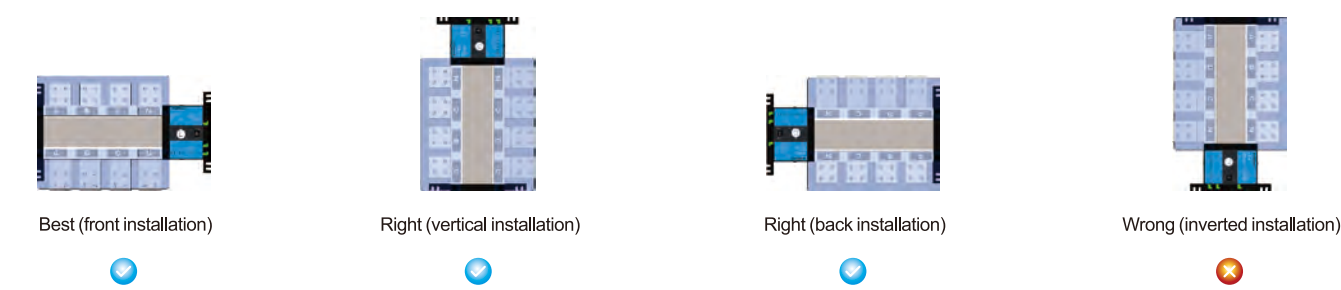
Automatic recovery means automatic switch back to main power when main power recovers.

MAIN TECHNICAL PARAMETERS

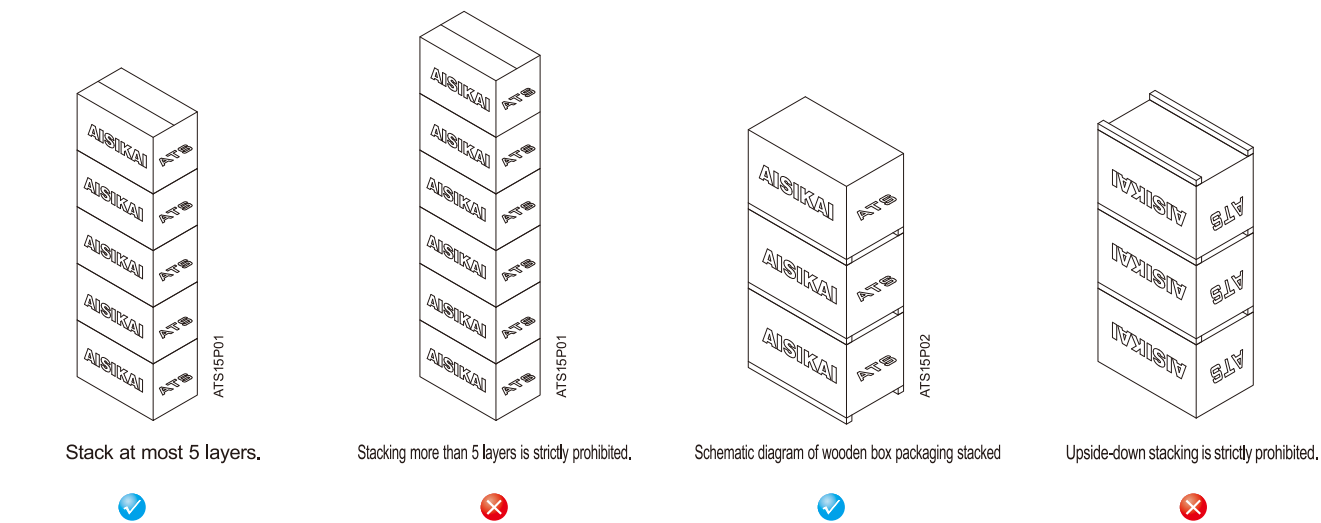
	SKT2 SERIES	SKT1 SERIES													
Shell frame grade current (Inm)	100A	160A			250A		630A		1600A				3200A		
Rated current (In)	100	125A	160	250	400	630	800	1000	1250	1600	2000	2500	3200		
Conventional thermal current (Ith)	10,16,20,25,32,40,50,63,80,100A	63,80,100,125,140,150,160A			160,180,200,225,250A		160,180,200,225,250,315,350,400,500,630A		800,1000,1250,1600A				2000,2500,3200A		
Rated insulation voltage of copper bar (Ui)	660V						800V								
Rated impulse withstand voltage (Uimp)	6KV						8KV								
Rated operating voltage of copper bar (Ue)	AC400V														
Use category	AC-33A														
Rated operating current of copper bar (Ie)	10,16,20,25,32,40,50,63,80,100,125,140,150,160,180,200,225,250,315,350,400,500,630									800,1000,1250,1600,2000,2500,3200					
Rated making capacity	10Ie														
Rated breaking capacity	10Ie														
Rated limit short-circuit current	7KA	13KA			35KA				50KA			75KA			
Transferring time I – II or II – I	1.2S					0.6S		1.2S			2.4S				
Rated operating voltage of the control power supply (Us)	AC220V(Special voltage DC24V、DC110V、DC220V、AC110V、AC280V)														
Start	40W					325W		355W	400W	440W	600W				
Normal	18W					62W		74W	90W	98W	120W				
Net weight(kg) 4 poles	3.5	5.3	5.5	7	17	17.5	37	44	98						

Note: The parameters of SKT1 series 20A-100A is exactly same as the SKT1 125A product.

SCHEMATIC DIAGRAM OF CORRECT INSTALLATION METHOD



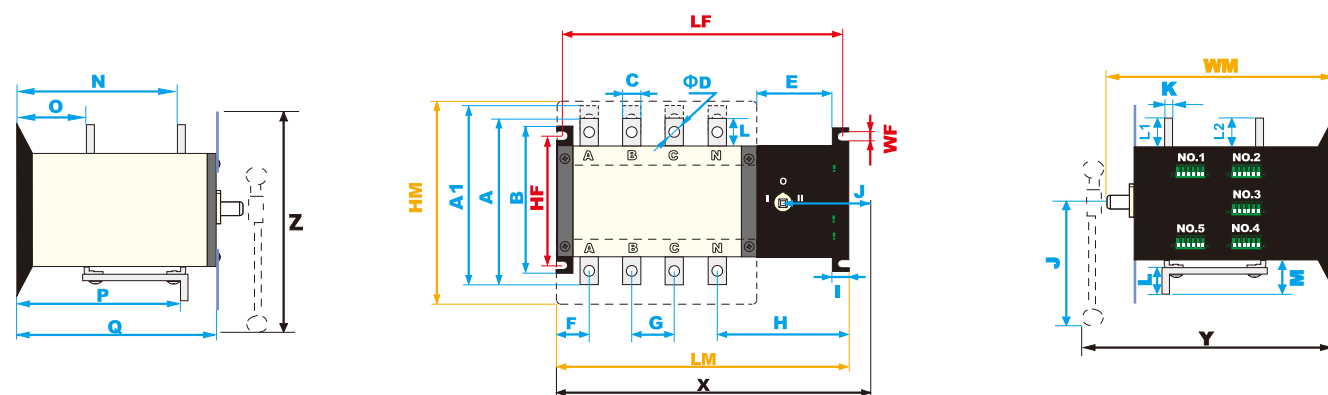
SCHEMATIC DIAGRAM OF PACKAGING STACKED





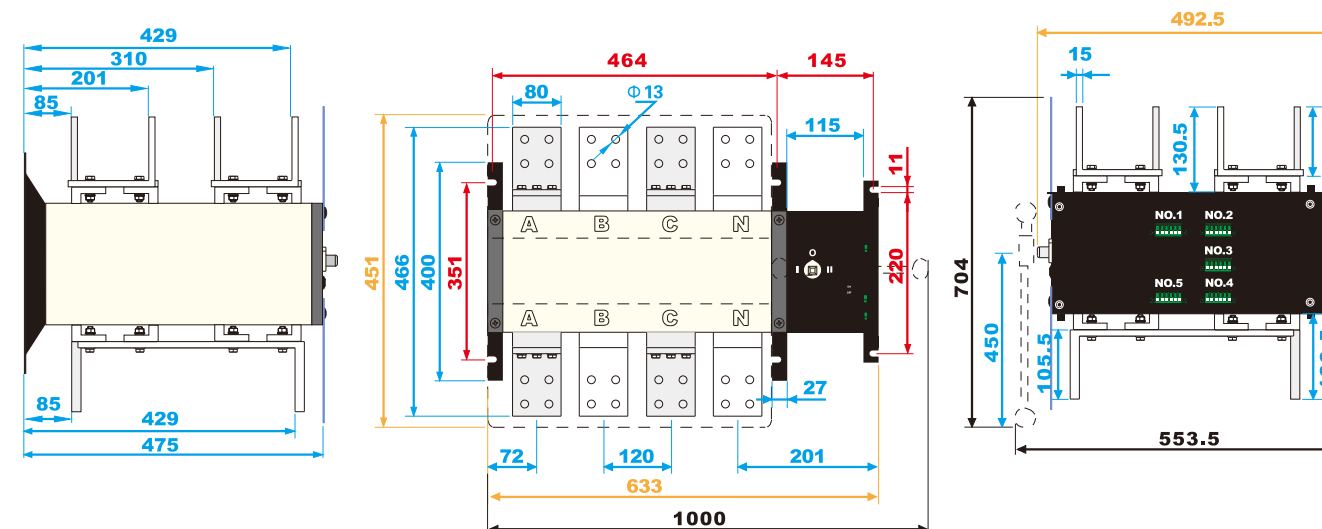
## OUTLINE DRAWING 1

## 20A-1600A outline dimensions



## OUTLINE DRAWING 2

2000A–3200A outline dimensions



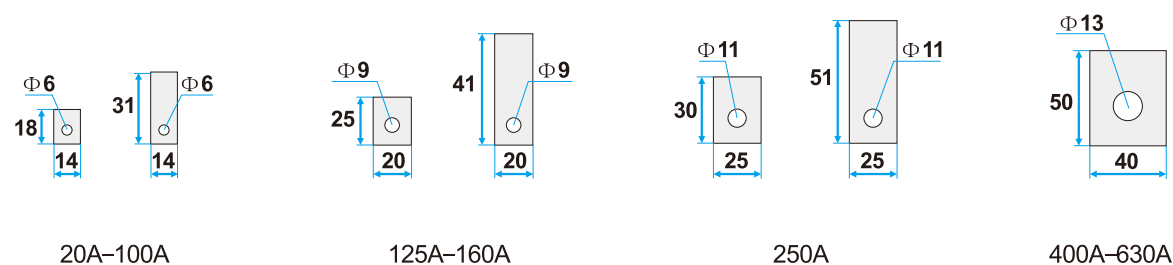
### 20A-1600A outline and installation dimensions table

[illegible]

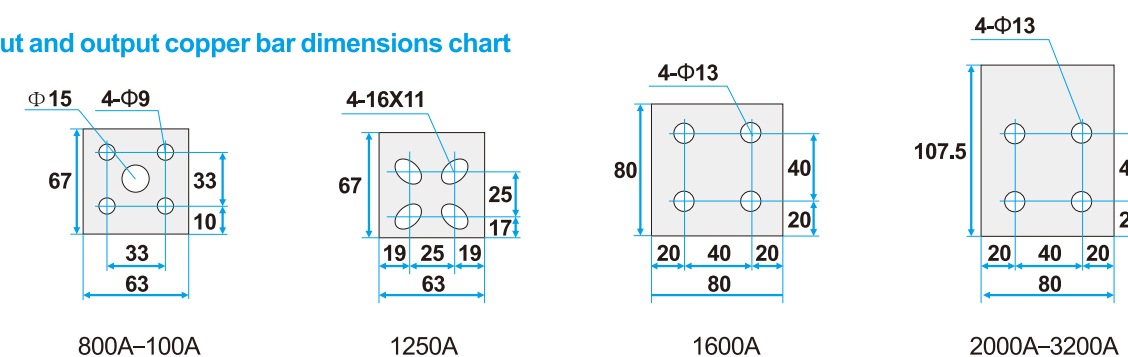
Note: X, Y and Z are the maximum width, depth and height of the switch assembled with a manual emergency handle. Depending on the angle of the handle when installing or the difference of positions of the slider moving, the corresponding dimensions will be smaller than the data listed in the table above, which are listed for reference only.

The parameters of SKT1 series 20A-100A is exactly same as the SKT1 125A product.

### Input and output copper bar dimensions chart



### Input and output copper bar dimensions chart

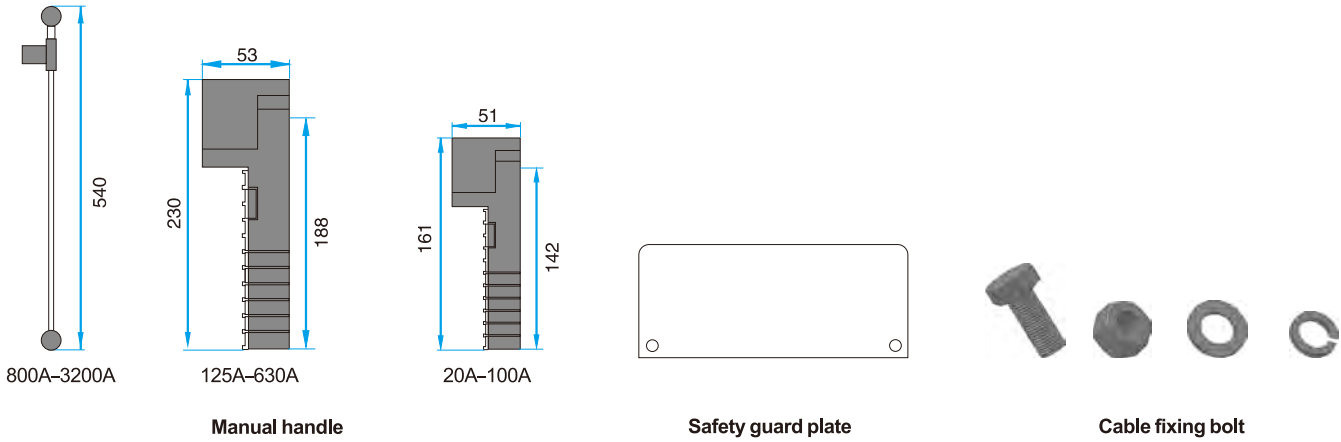




TERMINAL FUNCTIONS INTRODUCTION

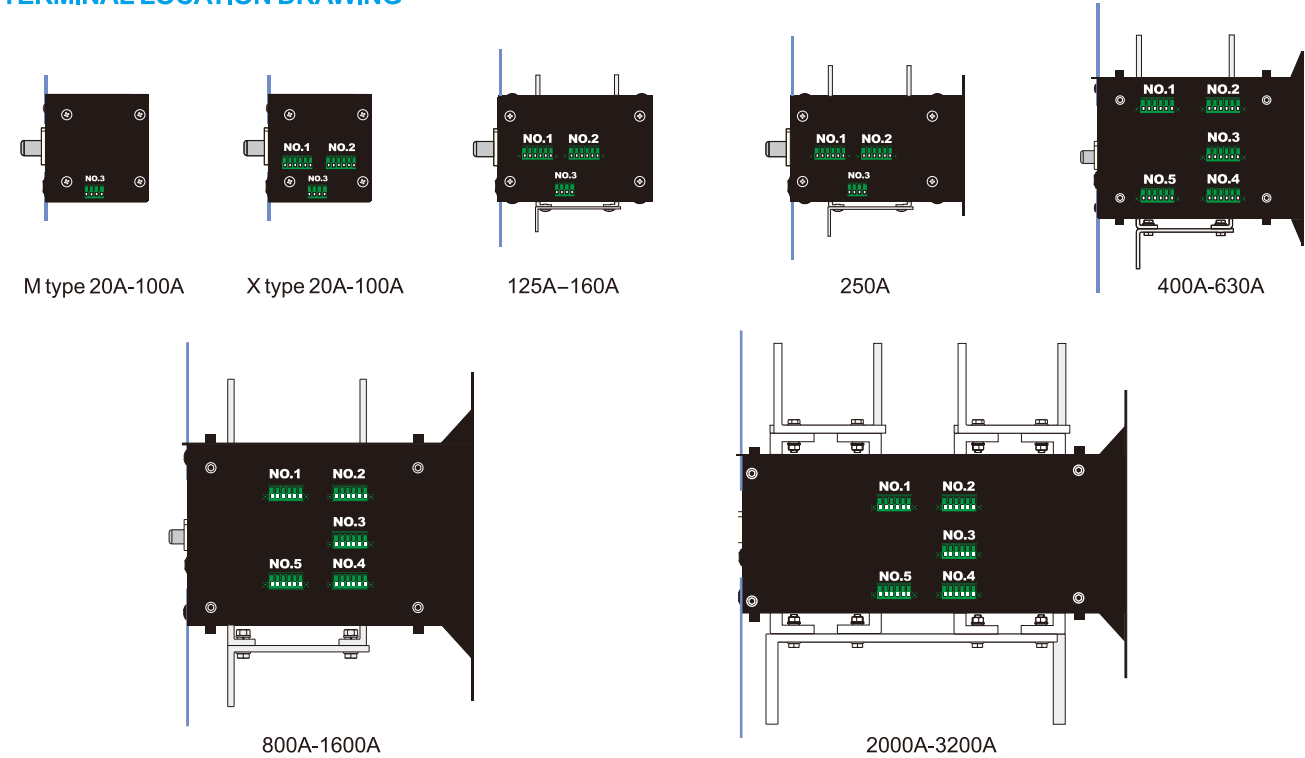
Terminal Serial No.	Access point serial No.	Function	Notes
Terminal No. 1	101、106	Power supply neutral wire and live wire output for feedback	Active output, 1AAC220V
	102、103	Power 1 supply live wire and neutral wire input	> 5A AC 220V
	104、105	Power 2 supply live wire and neutral wire input	> 5A AC 220V
Terminal No. 2	201、206	Passive control when disconnected and active control when closed	See SKT Type Principle Diagram for details
	202	Common terminal of external passive control signal input	
	203	When closed with 202, Line I is switched on	
	204	When closed with 202, Line 0 is switched on	
Terminal No. 3	205	When closed with 202, Line II is switched on	Passive control signals
	301、306	Not used	Not assembled on 20A-250A
	302	Common terminal of passive position feedback signal output	M type is active output, the other types are passive output, see the principle diagram for details.
	303	Closed with 302 when Line I is switched on.	
	304	Closed with 302 when Line 0 is switched on.	
Terminal No. 4	305	Closed with 302 when Line II is switched on.	1A AC 220V
	401、406	Not used	Assembled on 400A and above
	402、403	Closed when Line I is switched on	Passive 3A AC 220V
Terminal No. 5	404、405	Closed when Line II is switched on	Passive 3A AC 220V
	501	Not used	Optional parts, passive 3A AC 220V
	502	Not used	
	503	Not used	
	504	Not used	Optional parts, passive 3A AC 220V
	505	Not used	
	506	Not used	

STANDARD ACCESSORIES



Current(A)	Number of wiring terminals (pieces)	Manual handle number/material	Safety guard plate number/material	Users Manual quantity	Cable fixing bolt number/specifications(set)
2000-3200	5	1 pc/steel	2 pcs/PMMA	1 copy	M12*45/48
1600	5	1 pc/steel			M12*40/48
1250	5	1 pc/steel			M10*35/48
800-1000	5	1 pc/steel			M8*35/48
400-630	5	1个/ABS			M12*30/12
250	3	1个/ABS			M10*25/12
125-160	3	1个/ABS			M8*25/12
20-100	3 (M type is equipped with only one)	1个/ABS			M6*20/12

TERMINAL LOCATION DRAWING



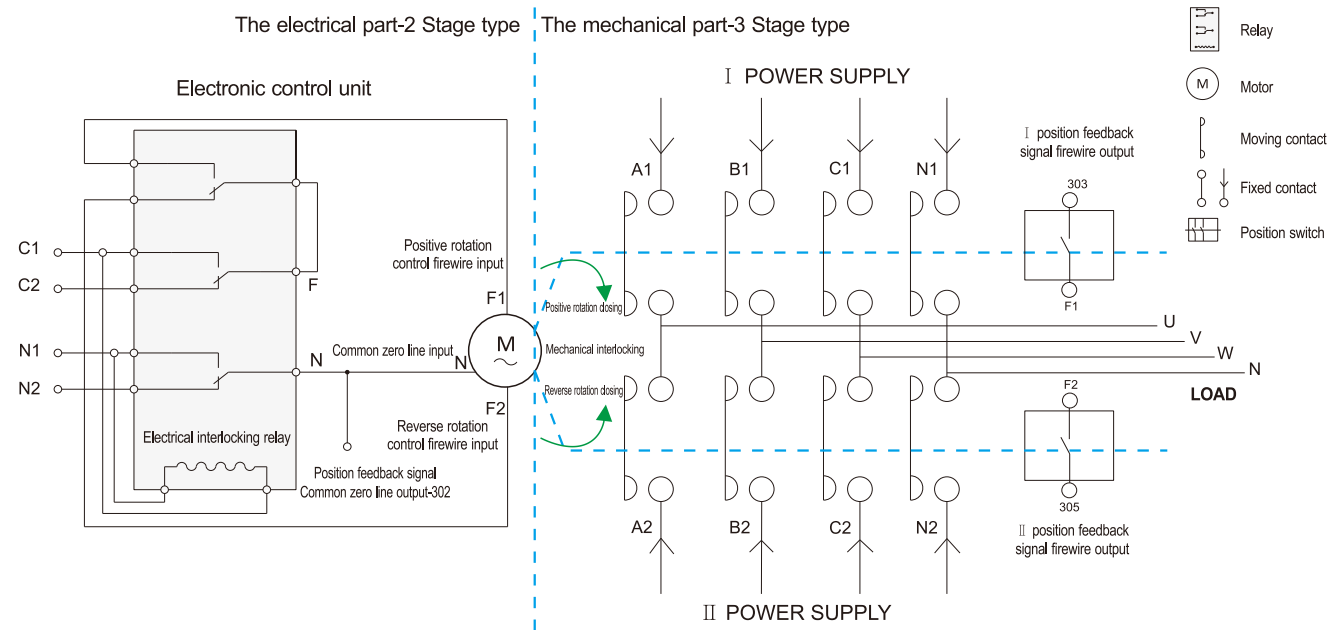
INSTRUCTIONS FOR USE OF LED INDICATORS

Model	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
20-250A	Line I control power supply is powered-on. (There is AC 220V between the access points 102 and 103 of No. 1 terminal)	Line I control power supply fuse is normal	Line I control relay is normal (the relay is mounted on the internal circuit board. No. 3 light is used for this function, only when No. 4 light is not lit up).	Line II control power supply is powered-on (There is AC 220V between the access points 104 and 105).	Line II control power supply fuse is normal.	125A-250A switch, key lock or button is in AUTO position (the key lock or the button is mounted on the front side of the switch).
400-3200A	If the light is on, the voltage of Line I power is normal (There is AC 220V between the access points 102 and 103 of No. 1 terminal). If the light flashes, the voltage of Line I power is abnormal.	If the light is on, the switch is in Automatic mode (key lock or button is in AUTO position)	If the light is on, the voltage of Line II power is normal (There is AC 220V between the access points 104 and 105 of No. 1 terminal, measure voltage range AC220V±15%). If the light flashes, the voltage of Line II power is abnormal.	Light on indicates Line I closed	Light on indicates both Line I and Line II are open	Light on indicates Line II closed

Note: SKT2 type has no LED indicator equipped.

## SKT-M type automatic transfer switch

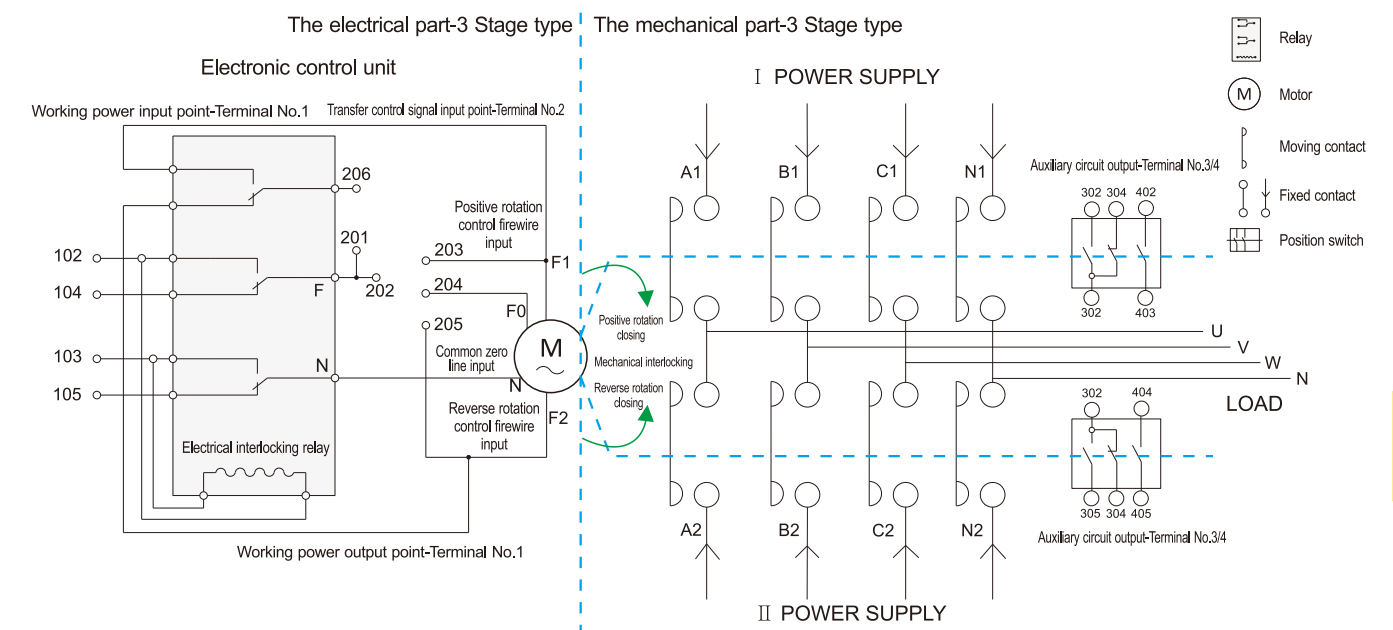
M Type Internal Principle Schematic Diagram



• Note: The above drawing is only a schematic diagram of its working principle, which does not represent the number of its internal components.

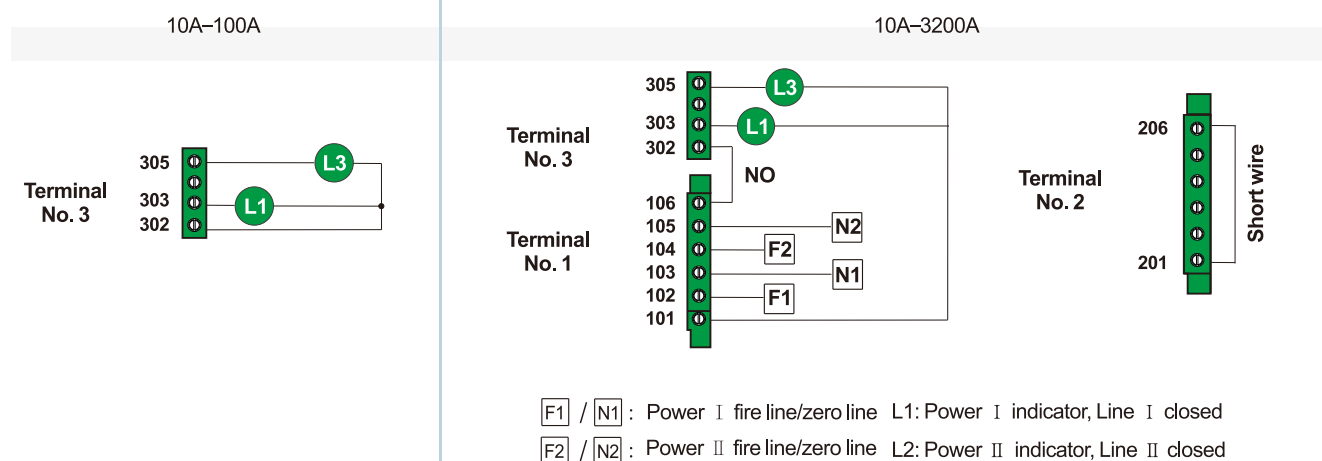
## SKT-X type automatic transfer switch

X Type Internal Principle Schematic Diagram



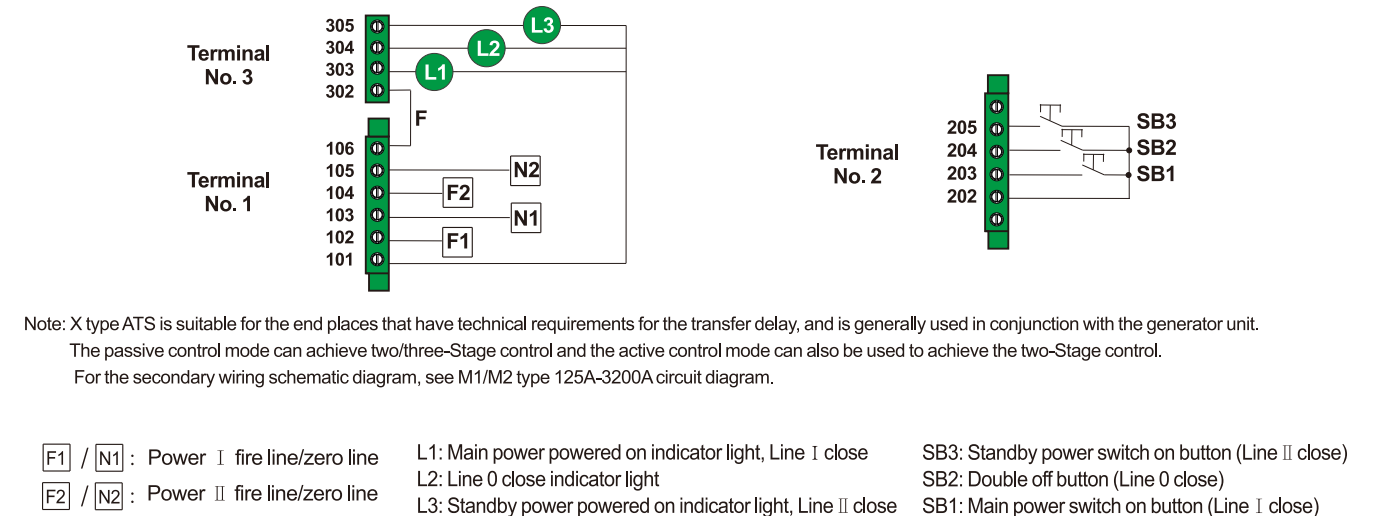
• Note: The above drawing is only a schematic diagram of its working principle, which does not represent the number of its internal components.

Secondary Wiring Schematic Diagram: M Type Full-Auto Transfer (Electrical 2-Stage)



Note: M1\M2 type ATS is suitable for the end places that have no requirements for transfer delay.

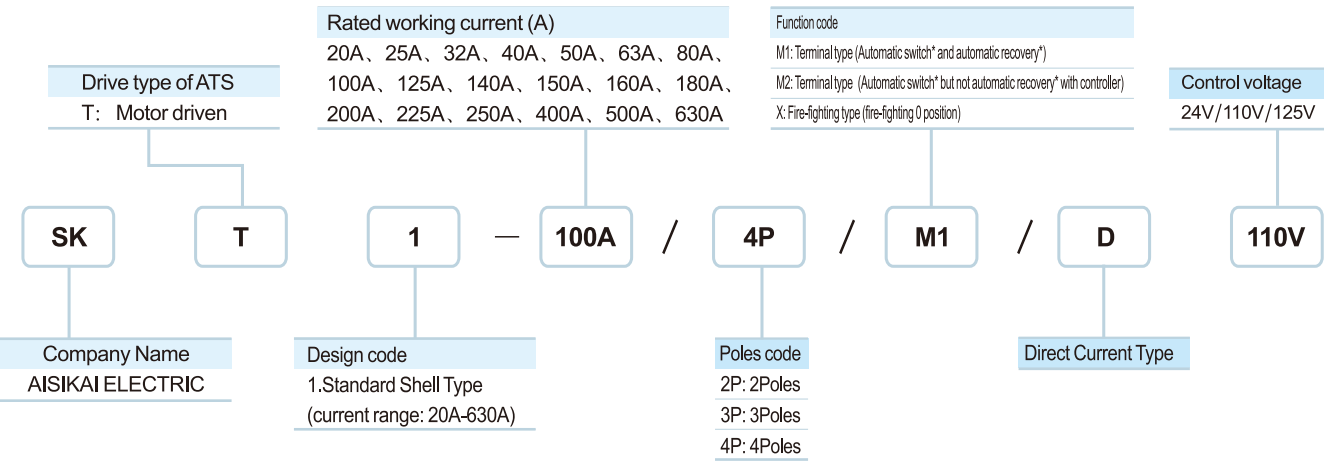
Secondary Wiring Schematic Diagram: X Type Remote/External Control Transfer (Passive Control, Electrical 3-Stage)



Note: X type ATS is suitable for the end places that have technical requirements for the transfer delay, and is generally used in conjunction with the generator unit. The passive control mode can achieve two/three-Stage control and the active control mode can also be used to achieve the two-Stage control. For the secondary wiring schematic diagram, see M1/M2 type 125A-3200A circuit diagram.



SKT1-D series DC Type ATS (motor driven type) quick selection table



PRODUCT OVERVIEW



分类

● SKT series ATS is the most advanced third generation product. Its class is PC and its usage category is DC-33B frequently operate electrical transfer switch. It's suitable to be used in 10A-3200A DC power distribution system for reliable transfer between two power supplies. It has four working modes: Automatic, Electric, Emergency Manual and Locking.

● Classify by volume  
Standard type: Type 1, 20A-125A, 125A-250A, 400A-630A, 3 kinds volume specification.

● Classify by function  
M1: Terminal type (Automatic switch\* and automatic recovery\*)  
M2: Terminal type (Automatic switch\* but not automatic recovery\* with controller)  
X: Fire-fighting type (fire-fighting 0 position)

● Classify by poles  
2P: 2 poles, 1 phase and 2 lines  
3P: 3 poles, 3 phases  
4P: 4 poles, 3 phases and 4 lines

Application field



Qualification documents



Normal working conditions and installation methods

Category	Requirements
Operating temperature	-20 to 45℃. The average value for 24 hours shall not exceed +35℃ ;
Operating humidity	The average humidity at +40℃ shall not exceed 50% without condensation;
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
IP rating	IP20
Storage requirements	To be stored under -30 to 70℃ and in a dry, non-corrosive and saline environment and the longest period of storage shall be 1 year
Packing	630A and below packed in carton boxes; 800A and above packed in wooden boxes
Stacking	630A and below stacked no more than 5 layers; 800A and above stacked no more than 3 layers.
Installation	Vertically or horizontally. Upside down installation is not allowed
Wiring	Standard wiring is upper in and lower out. Wiring reversely (lower in and upper out) can be customized.

Applicable standard

GB/T14048. 11 IEC60947-6-1

FUNCTION CODE TABLE

Application type	Terminal type	Fire-fighting type
Function Code	M	X
Structure		
Electrical two-Stage type	Y	
Electrical three-Stage type		Y
Manual three-Stage type	Y	Y
Control mode		
Controller manual/ automatic control		
Remote electric control (external control)		Y
Emergency manual	Y	Y
Fully automatic switching	Y(without fault detection)	External control
Locking mode	Optional	Optional
Fire-fighting signal (forced to zero)		Passive closed signal
Main/standby power monitoring and protection		
Overvoltage protection	Single phase (optional)	Single phase (optional)
Undervoltage protection	Single phase (optional)	Single phase (optional)
Lost phase protection		
Frequency protection		
Phase angle detection		
N-phase fault alarm		
Phase sequence inconsistency alarm		
Application function		
Automatic switch* and automatic recovery*	M1 (Standard products)	External control
Automatic switch but not automatic recovery	M2 ( Customized)	External control
Main power supply is priority	Y	External control
Standby power supply is priority	0s或2s(Undervoltage optional)	Optional
Generator self-start signal (passive)		Optional
Transfer delay		External control
Power failure delay setting		
Power recovery delay setting		
Alarm records storage		
Communication		
Feedback signal	DC125V( I 、 II )	Passive ( I 、 II 、 0)
Display function		
Switch position status display	External indicator light	External indicator light
Voltage display		
Frequency display		
Current display		

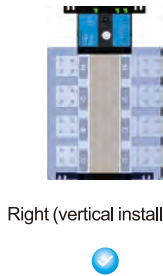
MAIN TECHNICAL PARAMETERS

Shell frame grade current (Inm)	125A								250A								630A	
Rated operating current of copper bar (Ie)	20	25	32	40	50	63	80	100	125	140	150	160	180	200	225	250	400	630
Rated insulation voltage of copper bar (Ui)	800V																	
Rated impulse withstand voltage (Uimp)	8KV(Main loop),4KV(Control loop)																	
Rated operating voltage of copper bar (Ue)	DC125V																	
Rated limit short-circuit current	7KA																	
Maximum Peak Current	11.9KA																	
Use category	DC-31B																	
I²t	148kA²S																	
SCPD	RT36																	
ATSE Grade	PC grade																	
Applicable Standards	GB/T 14048.11-2016																	

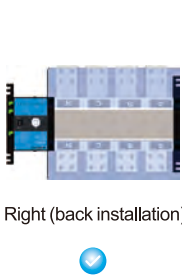
SCHEMATIC DIAGRAM OF CORRECT INSTALLATION METHOD



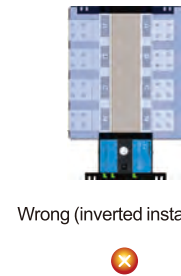
Best (front installation)



Right (vertical installation)

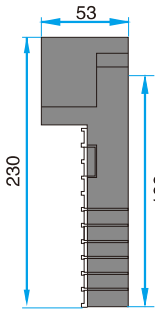


Right (back installation)



Wrong (inverted installation)

STANDARD ACCESSORIES



Manual handle



Safety guard plate



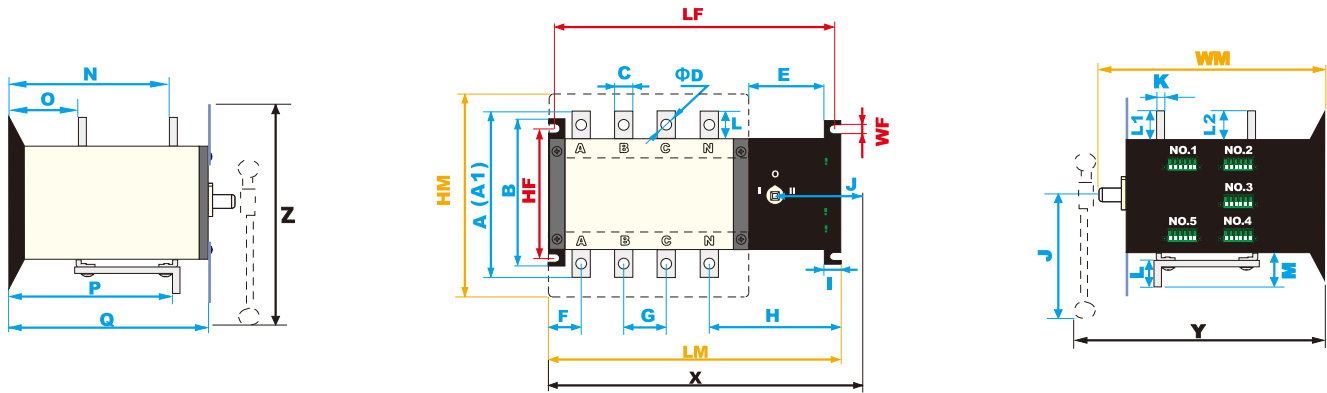
Cable fixing bolt

Current(A)	Number of wiring terminals (pieces)	Manual handle number/material	Safety guard plate number/material	Users Manual quantity	Cable fixing bolt number/specifications(set)
400-630	5	1个/ABS	2 pcs/PMMA	1 copy	M12*30/12
125-250	3	1个/ABS			M10*25/12
20-125	3 (M type is equipped with only one)	1个/ABS			M6*20/12



OUTLINE DRAWING

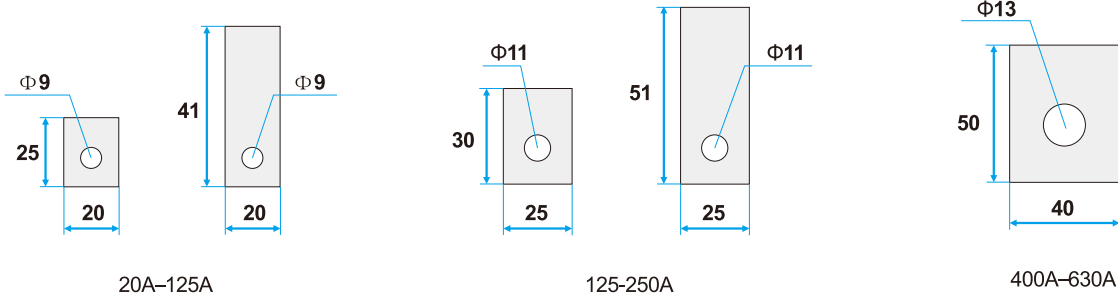
20A-630A outline dimensions



Series	Current range	125-160A	250A	400A	630A
Installation data	LF	271	334	416	416
	WF	6.5	6.5	8.5	8.5
	HF	110	110	180	180
	LM	290	348	435	435
Maximum size of the body	WM	188	194	262	262
	HM	180	216	324	324
	A	155	192	270	270
	A1	140	166	-	-
Other detailed dimensions of switch	B	130	130	200	200
	C	20	25	10	10
	D	9	11	13	13
	E	103	103	125.5	125.5
	F	30	38	48	48
	G	36	50	64	64
	H	152	160	195	195
	I	18	18	24	24
	J	188	188	188	188
	K	3.5	3.5	5	6
	L	25	28.5	45	45
	L1	25	30	51	51
	L2	41	51	51	51
	M	31	36	59	59
	N	133	136	187	187
	O	56	56	77	77
	P	133.5	138	205	205
	Q	167	171	237	237
	X	392.5	460	522	522
	Y	220	227	293	293
	Z	279	303	365	365

Note: X, Y and Z are the maximum width, depth and height of the switch assembled with a manual emergency handle.  
Depending on the angle of the handle when installing or the difference of positions of the slider moving, the corresponding dimensions will be smaller than the data listed in the table above, which are listed for reference only.

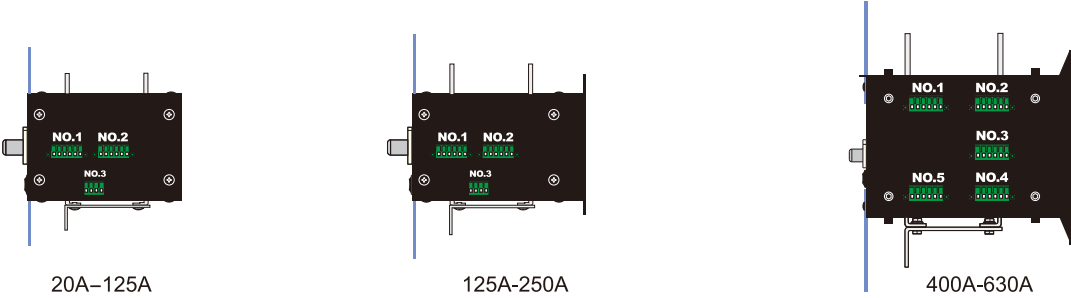
Input and output copper bar dimensions chart



TERMINAL FUNCTIONS INTRODUCTION

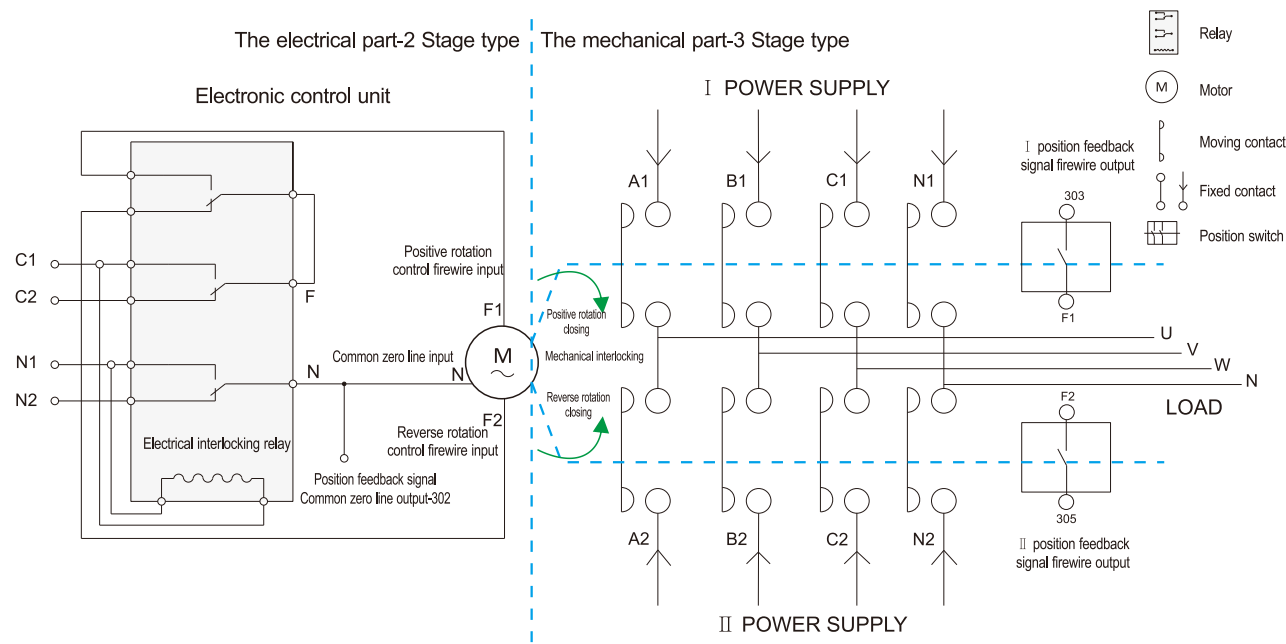
Terminal Serial No.	Access point serial No.	Function	Notes
Terminal No. 1	101、106	Power supply neutral wire and live wire output for feedback	Active output, 1AAC125V
	102、103	Power 1 supply live wire and neutral wire input	> 5A AC 125
	104、105	Power 2 supply live wire and neutral wire input	> 5A AC 125V
Terminal No. 2	201、206	Passive control when disconnected and active control when closed	See SKT Type Principle Diagram for details
	202	Common terminal of external passive control signal input	Passive control signals
	203	When closed with 202, Line I is switched on	
	204	When closed with 202, Line 0 is switched on	
	205	When closed with 202, Line II is switched on	
Terminal No. 3	301、306	Not used	Not assembled on 20A-250A
	302	Common terminal of passive position feedback signal output	M type is active output, the other types are passive output, see the principle diagram for details. 3A DC 125V
	303	Closed with 302 when Line I is switched on.	
	304	Closed with 302 when Line 0 is switched on.	
	305	Closed with 302 when Line II is switched on.	
Terminal No. 4	401、406	Not used	Assembled on 400A and above
	402、403	Closed when Line I is switched on	Passive 3A DC 125V
	404、405	Closed when Line II is switched on	Passive 3A DC 125V
Terminal No. 5	501	Not used	Optional parts, passive 3AAC 220V
	502	Not used	
	503	Not used	
	504	Not used	Optional parts, passive 3A DC 125V
	505	Not used	
	506	Not used	
	506	Not used	

TERMINAL LOCATION DRAWING



## SKT-M type automatic transfer switch

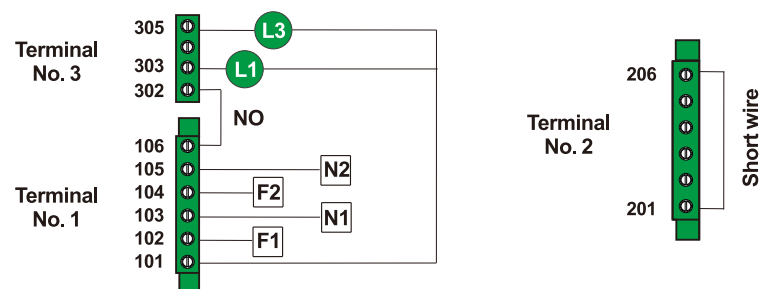
M Type Internal Principle Schematic Diagram



• Note: The above drawing is only a schematic diagram of its working principle, which does not represent the number of its internal components.

Secondary Wiring Schematic Diagram: M Type Full-Auto Transfer (Electrical 2-Stage)

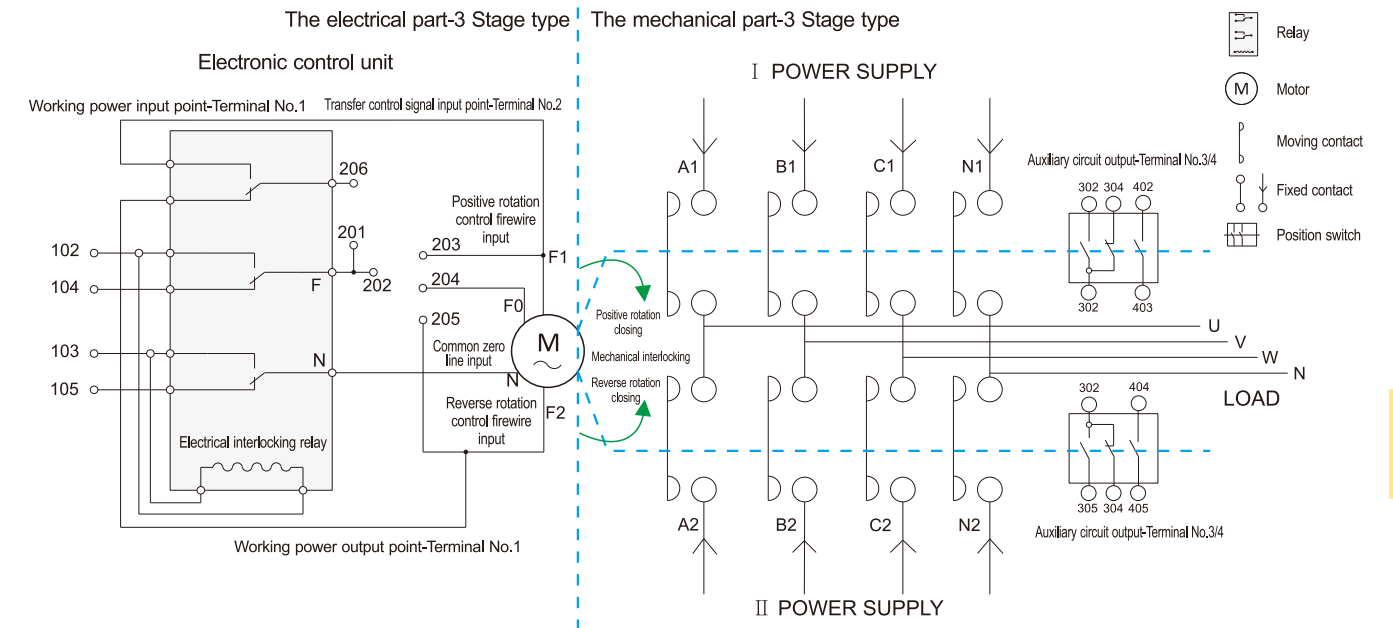
20A-630A



Note: M1\M2 type ATS is suitable for the end places that have no requirements for transfer delay.

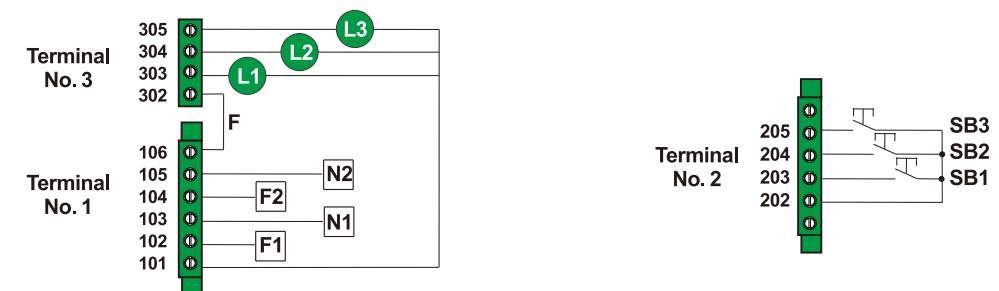
## SKT-X type automatic transfer switch

X Type Internal Principle Schematic Diagram



• Note: The above drawing is only a schematic diagram of its working principle, which does not represent the number of its internal components.

Secondary Wiring Schematic Diagram: X Type Remote/External Control Transfer (Passive Control, Electrical 3-Stage)

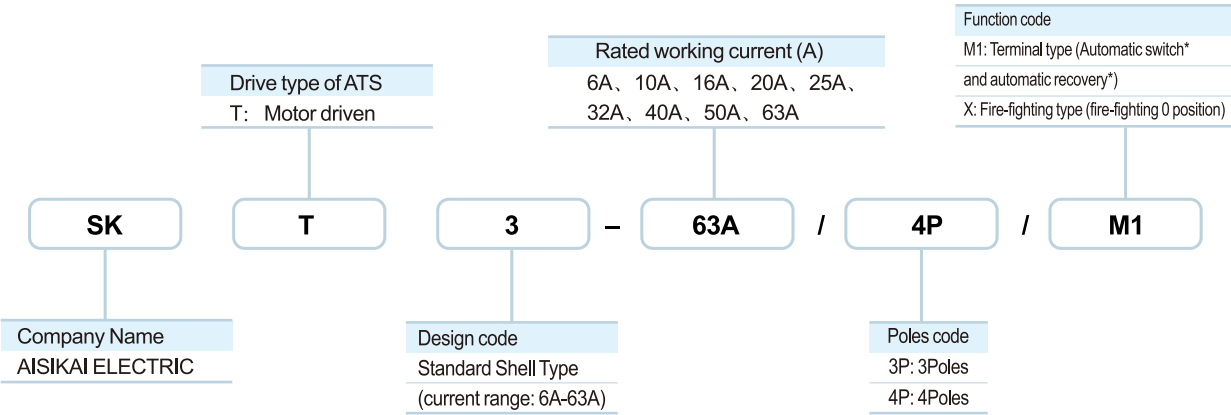


Note: X type ATS is suitable for the end places that have technical requirements for the transfer delay, and is generally used in conjunction with the generator unit. The passive control mode can achieve two/three-Stage control and the active control mode can also be used to achieve the two-Stage control.


[F1] / [N1]: Power I fire line/zero line  
[F2] / [N2]: Power II fire line/zero line  
L1: Main power powered on indicator light, Line I close  
L2: Line 0 close indicator light  
L3: Standby power powered on indicator light, Line II close  
SB3: Standby power switch on button (Line II close)  
SB2: Double off button (Line 0 close)  
SB1: Main power switch on button (Line I close)



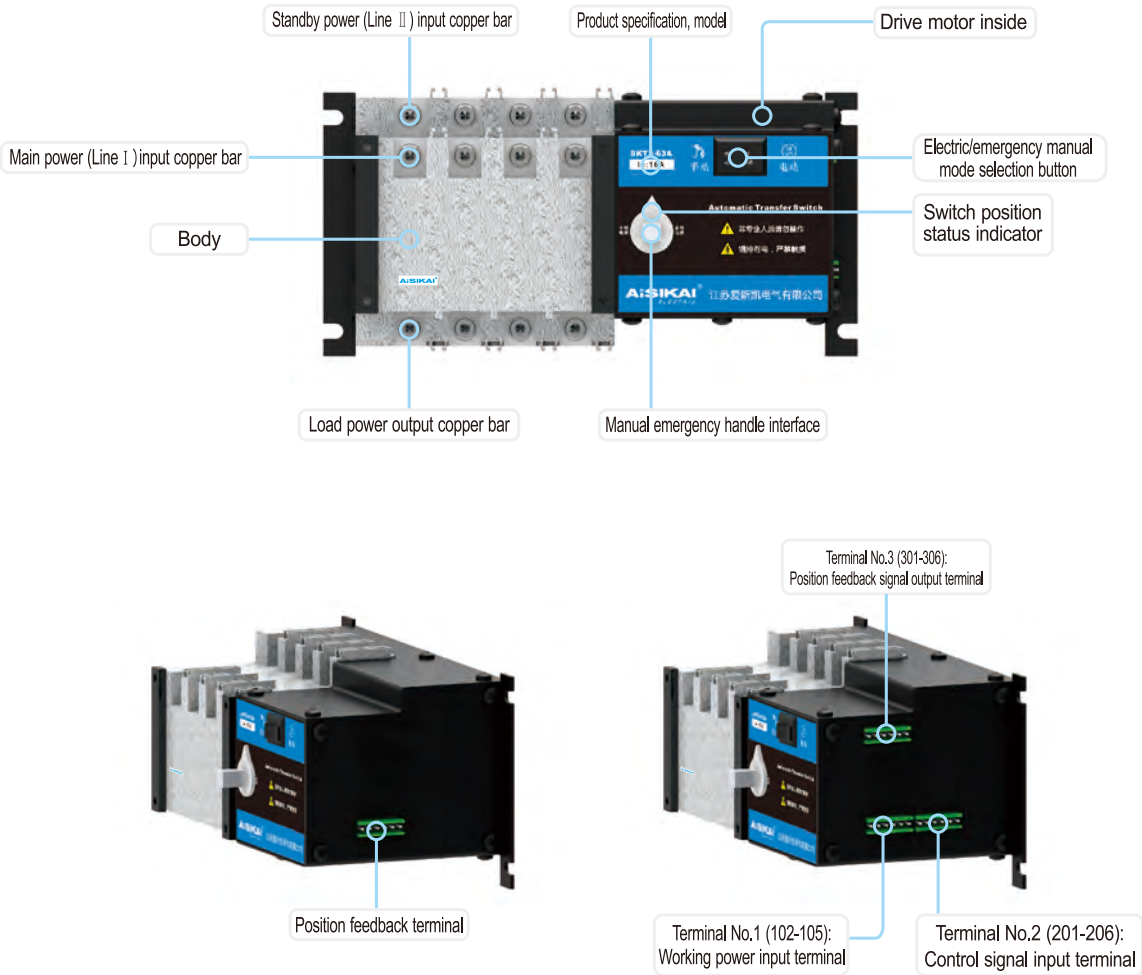
SKT3 series PC class ATS (motor driven type) quick selection table



Normal working conditions and installation methods

		
Category	Requirements	
Operating temperature	-20 to 45℃. The average value for 24 hours shall not exceed +35℃ ;	
Operating humidity	The average humidity at +40℃ shall not exceed 50% without condensation;	
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	
IP rating	IP20	
Storage requirements	To be stored under -30 to 70℃ and in a dry, non-corrosive and saline environment and the longest period of storage shall be 1 year	
Packing	Packed in carton boxes	
Wiring	Wiring is upper in and lower out	

STRUCTRE INTRODUCTION



PRODUCT FEATURES

- **High Safety Performance**  
Adopt the double-row composite contact design, transverse-pull moving mechanism, micro motor pre-storage energy method and microelectronic control technology, achieving almost zero arc (no arc distinguishing chamber); Adopt reliable mechanical interlocking and electrical interlocking; Adopt zero position technology, in case of emergency can force to zero position (cut off two power supplies); Have functions like obvious indicating of ON/OFF position, padlock and so on. thus realizing reliable isolation between the power and the load.
- **Mechanical-electronic integration design**  
Transfer process is accurate, flexible and smooth.
- **Good Electromagnetic Compatibility**  
Strong anti-interference capability, no external interference.
- Beautiful in appearance, small in volume and light in weight
- **High Degree of Automation**  
Switches have multiple input and output interfaces, easy to achieve remote PLC control and system automation. Switches work without any external control units.

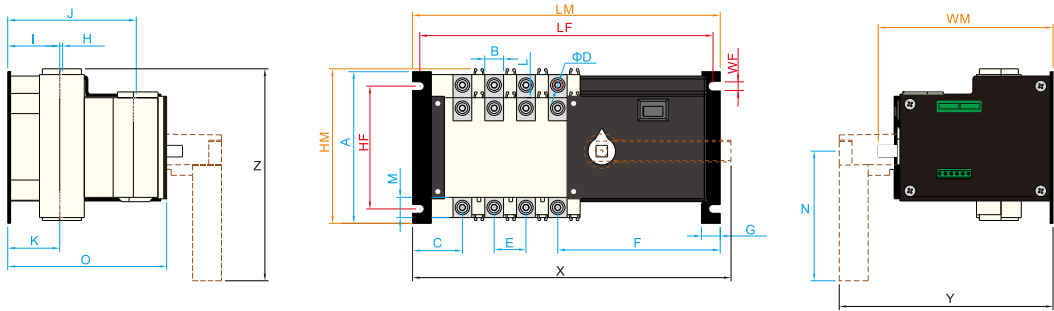
MAIN TECHNICAL PARAMETERS

Shell frame grade	Conventional thermal current Ith	Rated insulation voltage Ui	Rated impulse withstand voltage Uimp	Rated operating voltage Ue	Rated operating current Ie	Rated making capacity	Rated breaking capacity	Rated limit short-circuit current	Electrical control unit working voltage
63A	6A、10A、16A、20A、25A、32A、40A、50A、63A	800V	8kV	400V	6A、10A、16A、20A、25A、32A、40A、50A、63A	8kA	5kA/30ms	35kA	AC220V

TERMINAL FUNCTIONS INTRODUCTION

Terminal Serial No.	Access point serial No.	Function	Notes
Terminal No. 1 (Working power input)	102、103	Power 1 supply live wire and neutral wire input	> 5A AC220V
	104、105	Power 2 supply live wire and neutral wire input	> 5A AC220V
Terminal No. 2 (Control signal input)	201、206	See Internal Type Principle Diagram for details	Active control
	202	Common terminal of external passive control signal input	External passive control
	203	When closed with 202, Line I is switched on	
	204	When closed with 202, Line 0 is switched on ( I / II break)	
	205	When closed with 202, Line II is switched on	
Terminal No. 3 (Position feedback signal output)	301、306	Optional	Passive output
	302	Common terminal of passive position feedback signal output	
	303	Closed with 302 when Line I is switched on.	
	304	Closed with 302 when Line 0 is switched on.	
	305	Closed with 302 when Line II is switched on.	

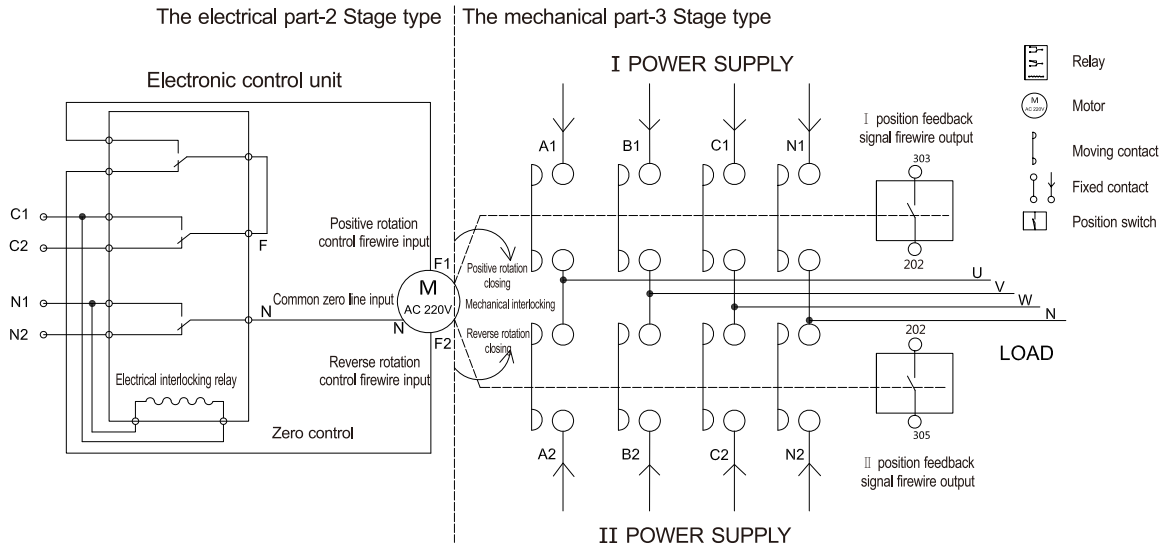
OUTLINE DRAWING



Installation data		Maximum size of the body		Other detailed dimensions of switch																			
LF	HF	WF	LM	HM	WM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	X	Y	Z
203	85	6	213	106	121	105	13	34.5	6	22	112.5	13	2	36	89	36	16	14	90	110	220	148	147

Note: X, Y and Z are the maximum width, depth and height of the switch assembled with a manual emergency handle.  
Depending on the angle of the handle when installing or the difference of positions of the slider moving, the corresponding dimensions will be smaller than the data listed in the table above, which are listed for reference only.

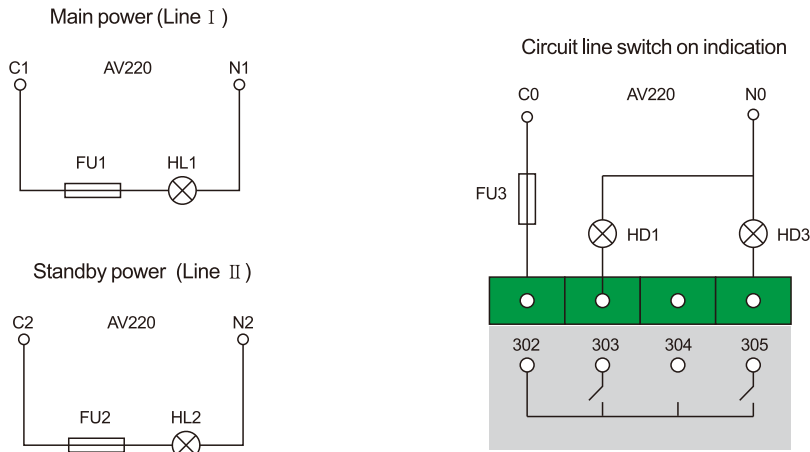
M Type Internal Principle Schematic Diagram



● Note: The above drawing is only a schematic diagram of its working principle, which does not represent the number of its internal components.

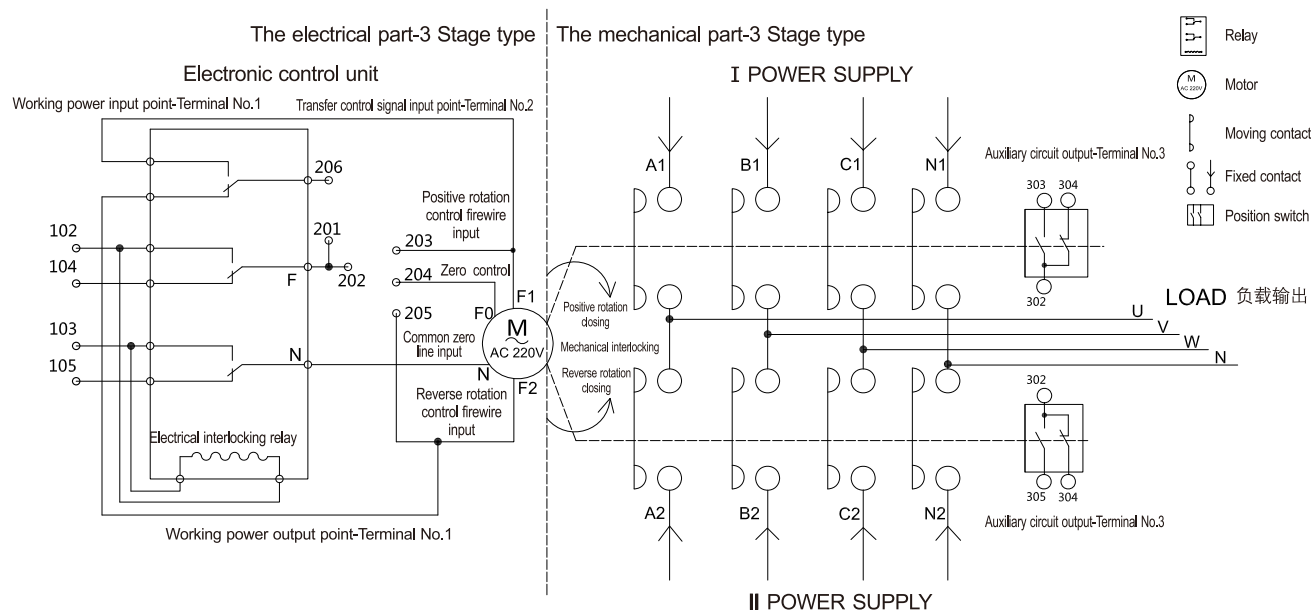
Secondary Wiring Schematic Diagram

Full-auto control transfer





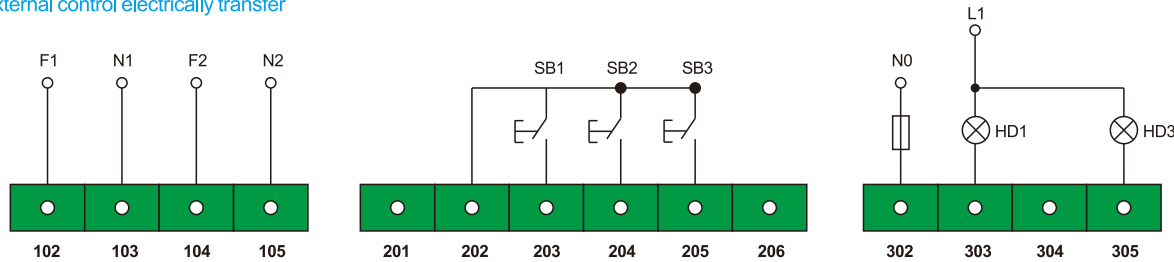
X Type Internal Principle Schematic Diagram



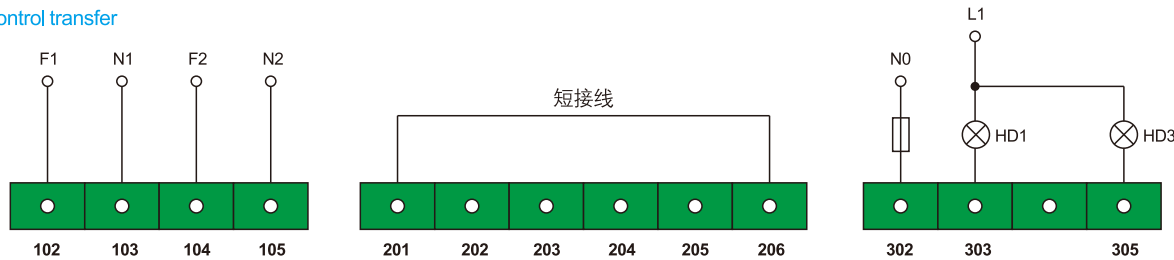
● Note: The above drawing is only a schematic diagram of its working principle, which does not represent the number of its internal components.

Secondary Wiring Schematic Diagram

Remote/external control electrically transfer



Full-auto control transfer



Note: X type ATS is suitable for the end places that have technical requirements for the transfer delay, and is generally used in conjunction with the generator unit.  
The passive control mode can achieve two/three-Stage control and the active control mode can also be used to achieve the two-Stage control.

F1/N1: Main power live wire/neutral wire; F2/N2: Main power live wire/neutral wire;

Hd1: Main power powered on indicator light, Line I close; HD3: Standby power powered on indicator light, Line II close

SB1: Main power switch on button (Line I close); SB2: Double off button (Line I close)(Fire-fighting zero position);

SB3: Standby power switch on button (Line II close)

SKS SERIES PC CLASS MANUAL ATS

PRODUCT OVERVIEW

● SKS series dual power manual transfer switch is PC Class and its usage category is AC-33B non-frequently operable electrical transfer switch. It is suitable to be used in the 50/60Hz 20A-3200A low voltage AC power distribution systems for reliable manual transfer between two power supplies.

Quick selection table

Drive type of ATS		Poles code	
S: Manual driven		2P: 2Poles	
		3P: 3Poles	
		4P: 4Poles	
SK	S	100A	4P
Company Name		Rated working current (A)	
AISIKAI ELECTRIC		20A、40A、63A、80A、100A、125A、160A 250A、400A、500A、630A、800A、1000A 1250A、1600A、2000A、2500A、3200A	

PERFORMANCE CHARACTERISTICS

- A composite moving contact design is used, a spring energy-storage and instantaneous-release operating mechanism is adopted for instantly making and breaking and an obvious on-off position display is equipped, thus realizing reliable isolation between the power source and the load.
- The shell is made of unsaturated polyester fibers, which is high in the fire, pressure and high temperature resistance.
- High reliability: Accurate, flexible and smooth in transfer process and long in service life up to more than 10,000 times.
- Beautiful in appearance, small in volume and light in weight.
- Operations inside or outside the cabinet will be provided as required.

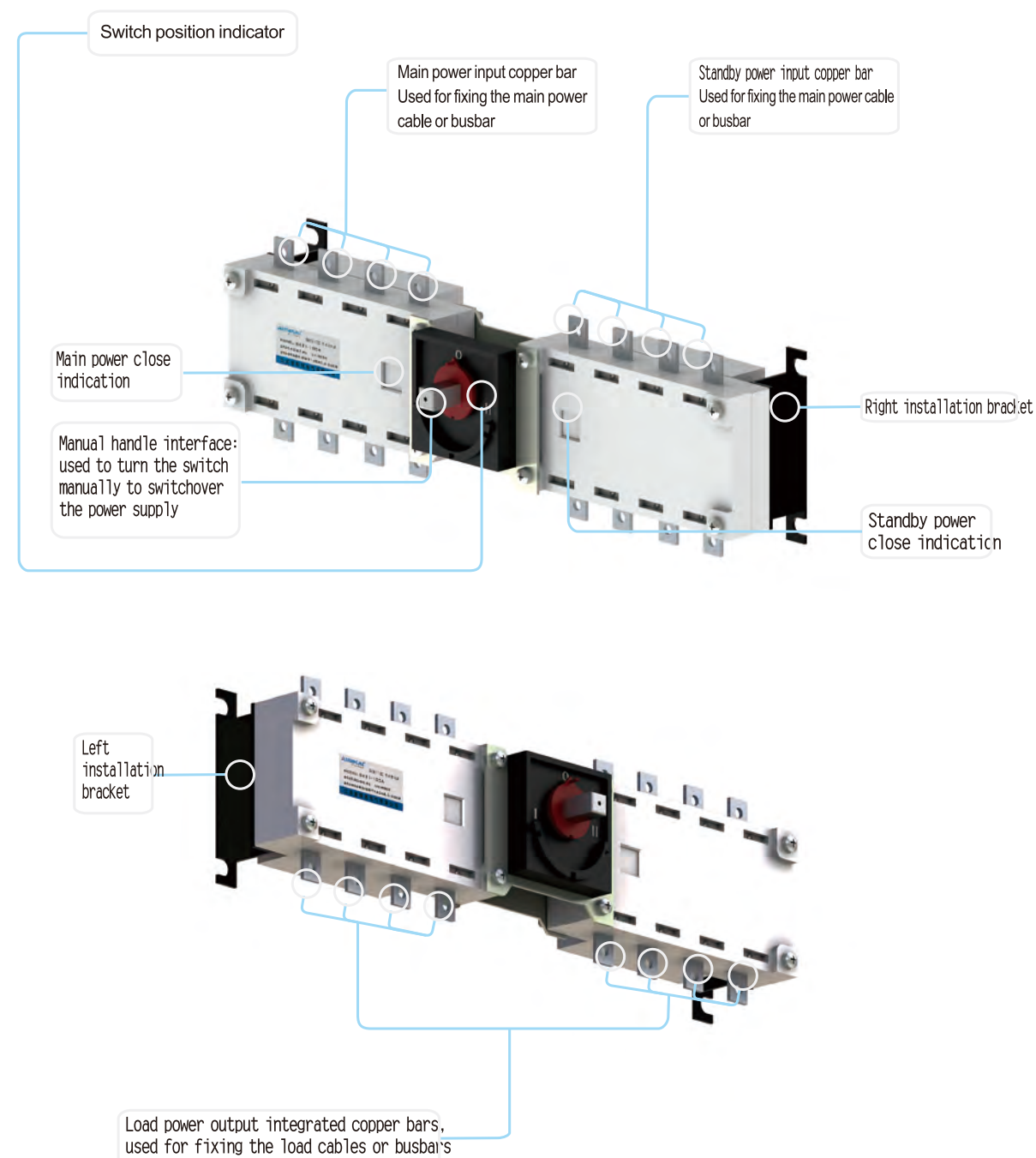
Normal working conditions and installation methods

Category	Requirements
Operating temperature	-20 to 45℃. The average value for 24 hours shall not exceed +35℃ ;
Operating humidity	The average humidity at +40℃ shall not exceed 50% without condensation;
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
IP rating	IP20
Storage requirements	To be stored under -30 to 70℃ and in a dry, non-corrosive and saline environment and the longest period of storage shall be 1 year
Packing	630A and below packed in carton boxes; 800A and above packed in wooden boxes
Stacking	630A and below stacked no more than 5 layers; 800A and above stacked no more than 3 layers.

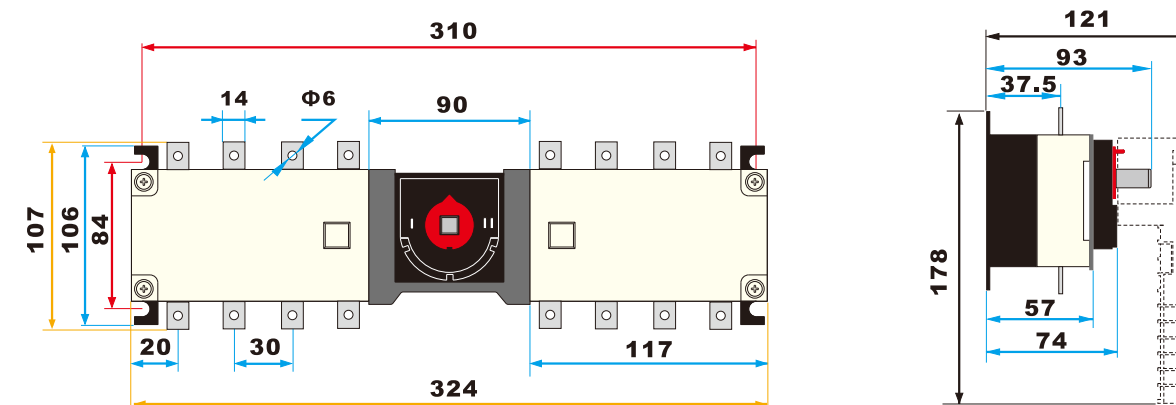
## MAIN TECHNICAL PARAMEFERS

The manual ATS and the automatic ATS are identical in basic structure, see ATS-10 for details.

## STRUCTURE INTRODUCTION (20A-100A)



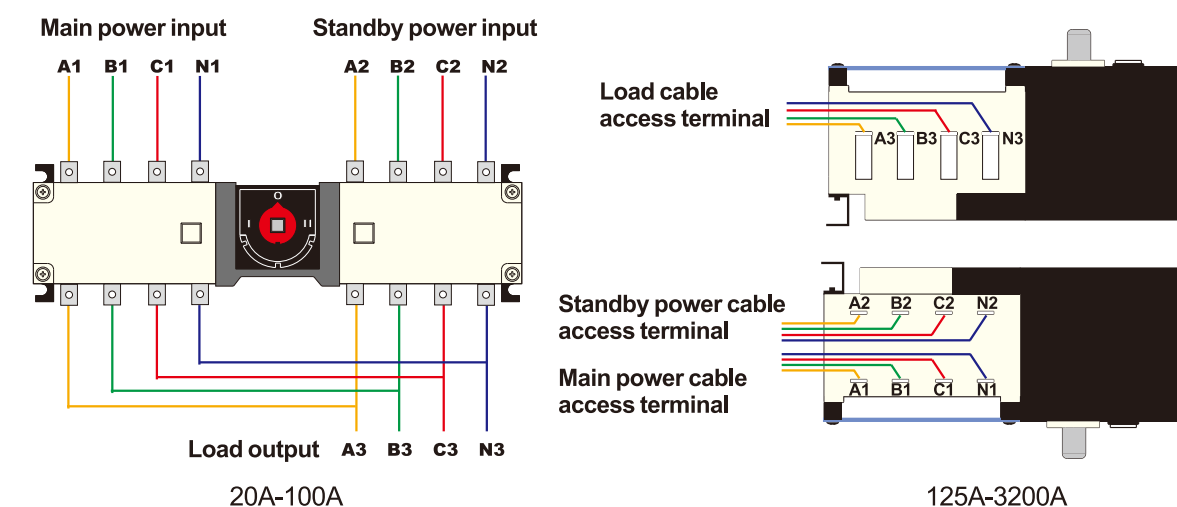
## OUTLINE DIMENSIONS DIAGRAM (20A-100A)



**Note: 125A-3200A manual switch ATS and SKT series ATS 125A-3200A are fully identical in appearance, see ATS-11 for details.**

## TYPICAL WIRING

Primary wiring schematic diagram



**Note:** When installing the 20A-100A switch, first 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 terminal in parallel.



ASKQ SERIES PC CLASS ATS (ELECTROMAGNETIC DRIVEN TYPE)

PRODUCT OVERVIEW

- ASKQ series dual power automatic transfer switch is PC Class non-frequently operable electrical transfer switch. It has 3 working modes: Fully Automatic, Electric and Emergency Manual. It is suitable to be used in the 50/60Hz 6A-6300A low voltage AC power distribution systems for reliable transfer between two power supplies.

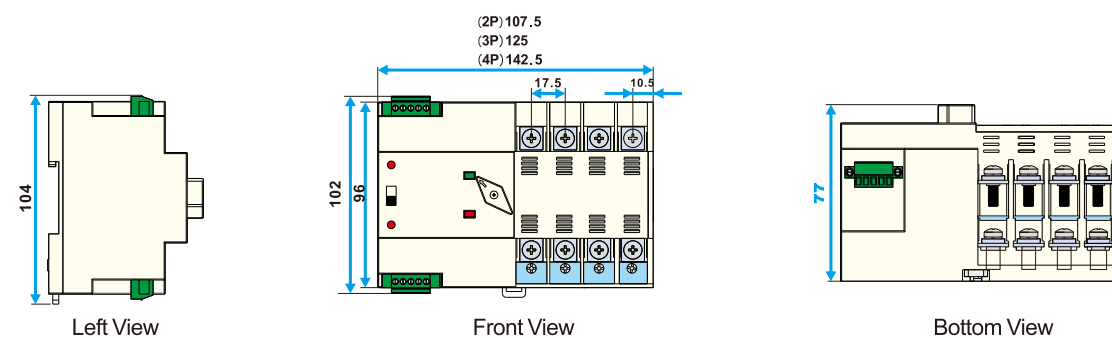
Quick selection table

Quick selection table		极数代号			
		2P:二极			
		3P:三极			
		4P:四极			
Drive type of ATS					
Q: PC class electromagnetic drive type					
ASK	Q	—	63A	/	4P
Company Name		Rated working current (A)			
AISIKAI ELECTRIC		Household type: 6A、10A、16A、20A、25A、32A、40A、50A、63A			
		2-stage type: 16、20、25、32、40、50、63、80、100、125、160、180、200、225、250、315、400、630、800、1000、1250、1600			
		High current type: 3200A、4000A、5000A、6300A			

## MAIN TECHNICAL PARAMETERS ( 6A-63A )

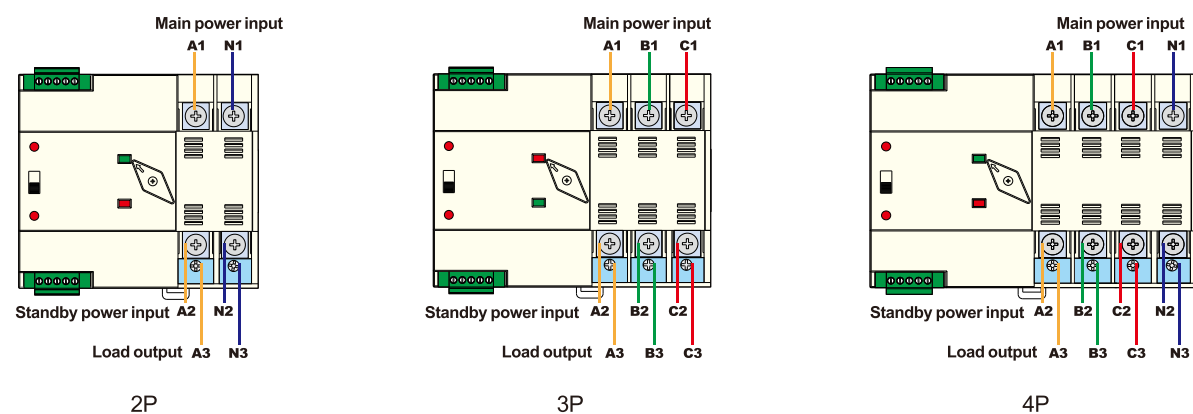
Rated operating voltage of copper bar $U_e$	AC 400V
Rated operating current of copper bar $I_e$	6A、10A、16A、20A、25A、32A、40A、50A、63A
Rated insulation voltage of copper bar $U_i$	690V AC
Rated impulse withstand voltage $U_{imp}$	8kV
Use category	33B
Electrical Class	PC class
Use frequency	50Hz~60Hz
Applicable standards	IEC60947.1 GB/T14048.11

## OUTLINE DIMENSIONS DIAGRAM (6A-63A)



## TYPICAL WIRING DIAGRAM(6A-63A)

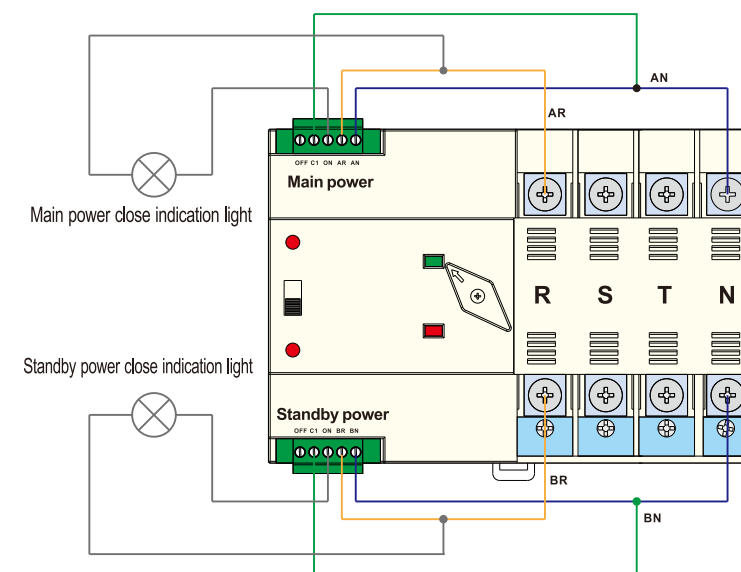
Primay wiring schematic diagram



- Note:
1. When in Manual mode, first connect the main power and standby power input terminals properly and, having verified that the live wires and neutral wires of both power supplies are consistent, connect the load output cable.
  2. When needing manual operation, first set the button in Manual position, then turn the handle to transfer.

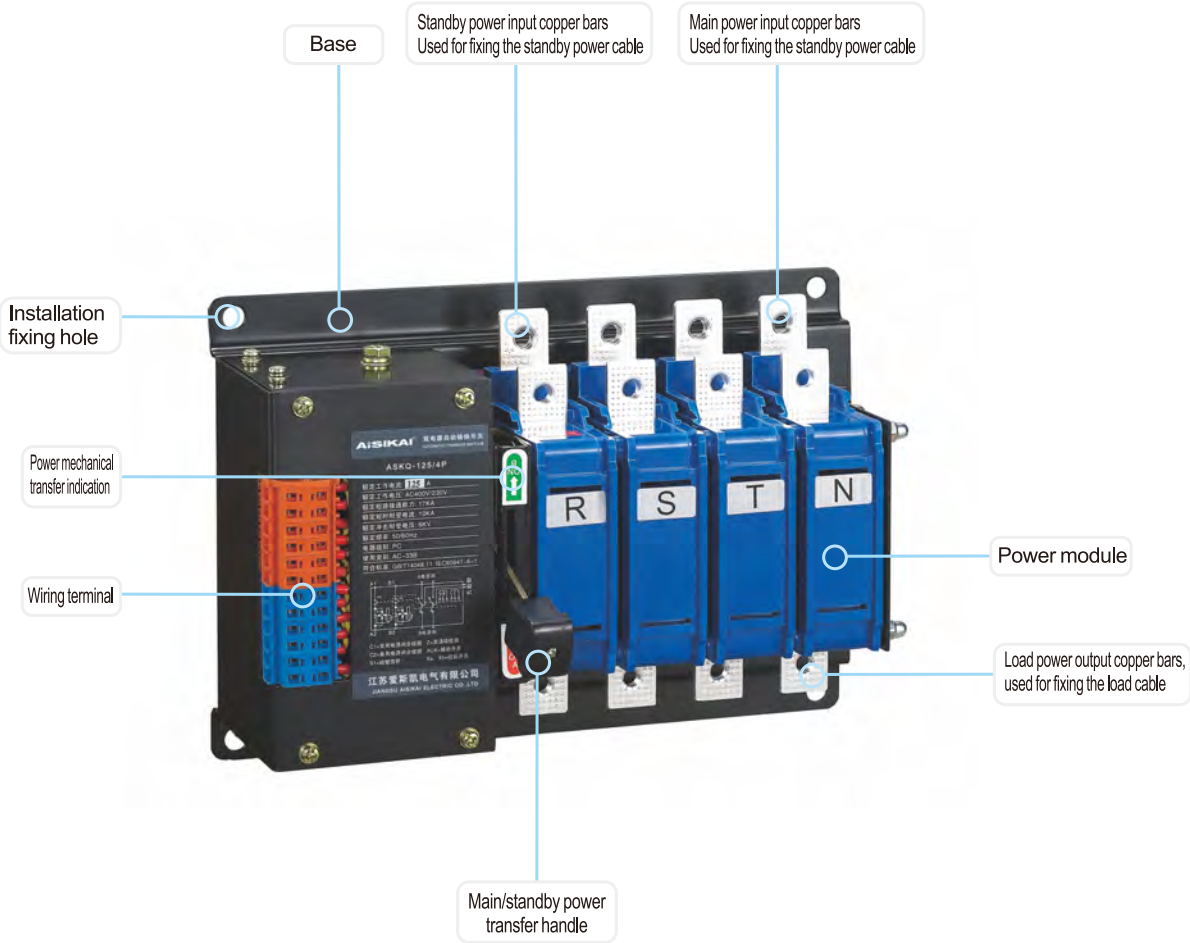
Secondary wiring schematic diagram

- Full-auto control method electrical diagram





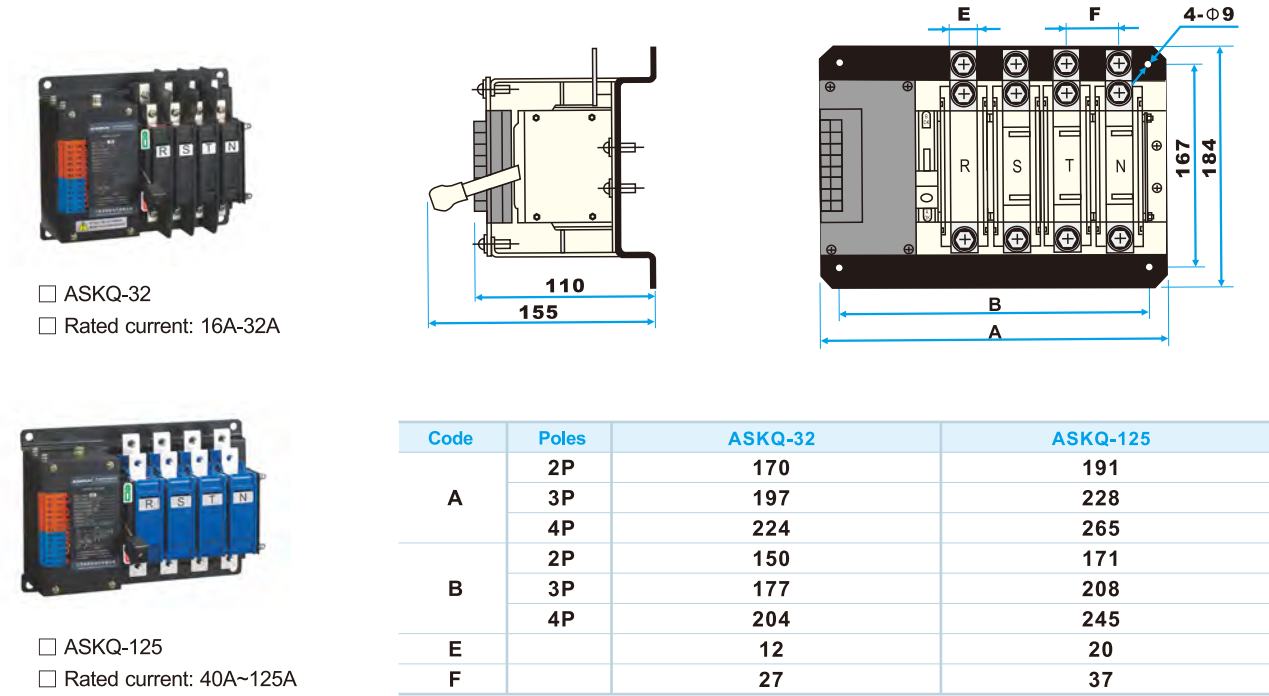
STRUCTURE INTRODUCTION



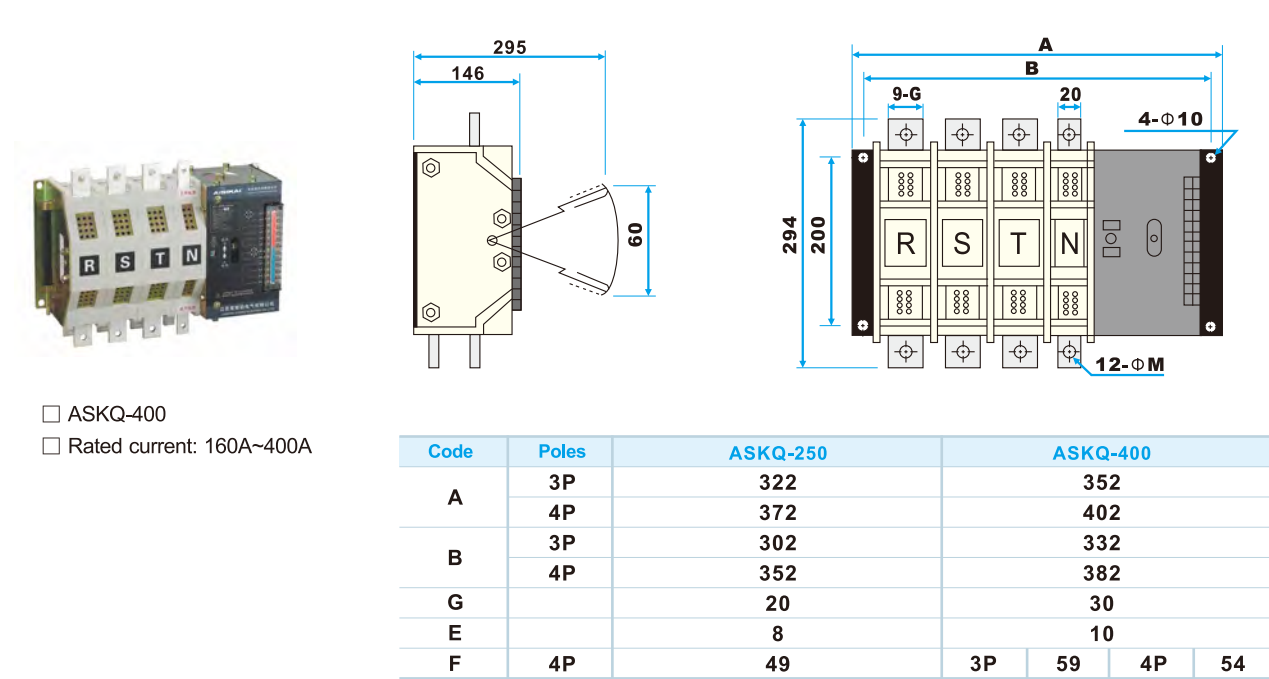
MAIN TECHNICAL PARAMETERS

Specification models	ASKQ-32		ASKQ-125				ASKQ-250		ASKQ-400		ASKQ-630		ASKQ-800		ASKQ-1000		ASKQ-1250		ASKQ-1600	
Rated operating current (A)	16	20	25	32	40	50	63	80	100	125	160	180	200	225	250	250	315	400	630	800
Rated control power current (A)	5		7				12		32		8		3000		1000		1000		1000	
Rated short-time withstand current (kA)	10		10				8		8		8		8		8		8		8	
Rated impulse withstand voltage (kV)	8		8				8		8		8		8		8		8		8	
Service life	Mechanical		8000				3000		3000		3000		3000		3000		3000		3000	
	Electrical		3000				3000		3000		3000		3000		3000		3000		3000	
Pole numbers	2P	3P	4P	2P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
Weight(kg)	3.2	3.7	4.2	4	4.5	5.5	18	19	18.5	20.5	37	42.5	39	46	41	48	48	57	56	67
Operating cycle (seconds per time)	10		15				15		20		25		25		25		25		25	

Outline and installation dimensions (16A-125A)



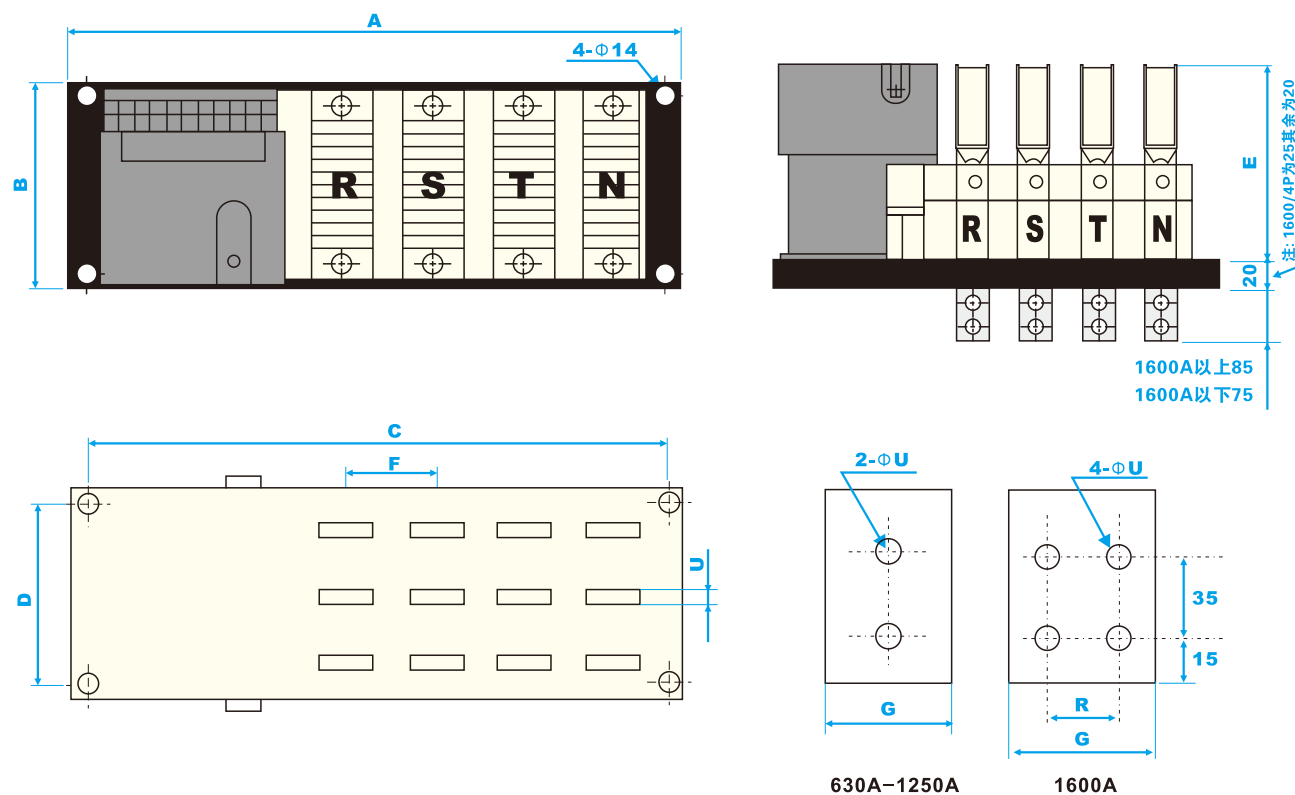
Outline and installation dimensions (250A-400A)



### Outline and installation dimensions (630A-1600A)

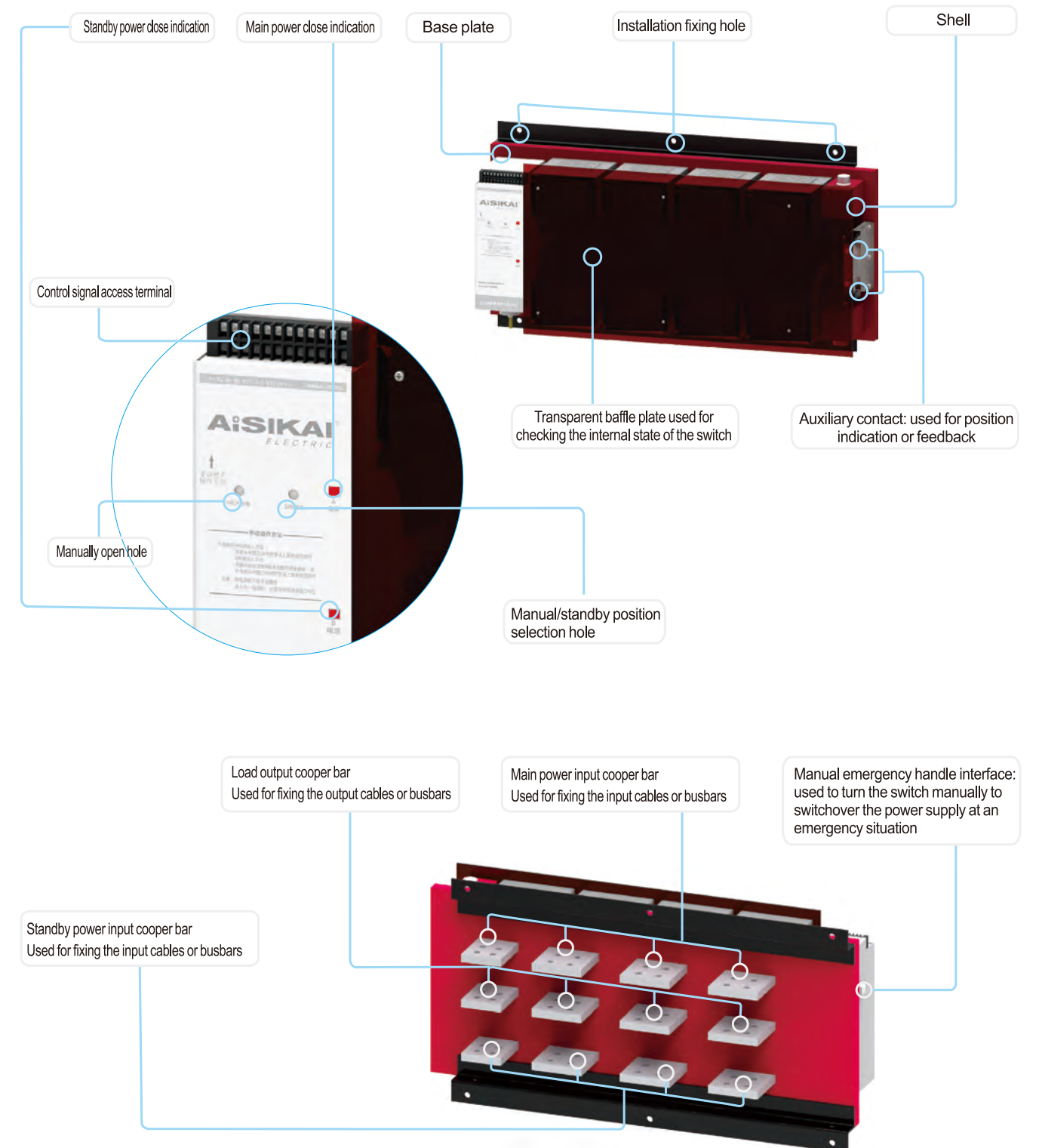


- ASKQ-1600
- Rated current: 630A~1600A



Code	Poles	ASKQ-630	ASKQ-800	ASKQ-1000	ASKQ-1250	ASKQ-1600
A	3P			530		640
	4P			600		750
C	3P			490		580
	4P			560		710
B				280		
D				210		
E				250		
F		90	90	90	90	130
G		30	40	45	55	75
R						40
U				12		14

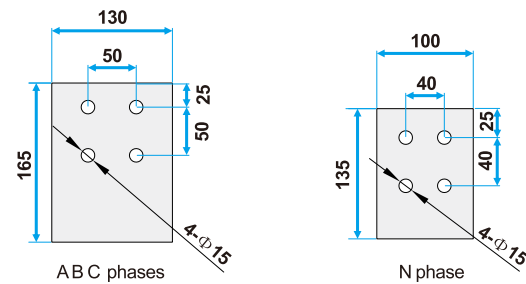
### STRUCTURE INTRODUCTION (3200A-6300A)



## MAIN TECHNICAL PARAMETERS (3200A-6300A)

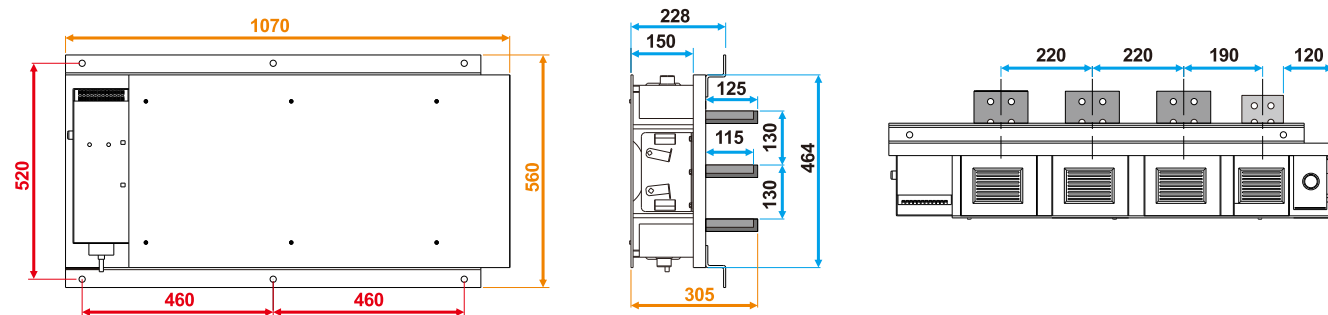
Conventional thermal current I <sub>th</sub>		3200A、3600A、4000A、4500A、5000A、6300A	
Rated insulation voltage of copper bar U <sub>i</sub>		AC1000V	
Rated impulse withstand voltage U <sub>imp</sub>		12kV	
Rated operating voltage of copper bar U <sub>e</sub>		AC400V	
Rated operating current of copper bar I <sub>e</sub>		3200A、3600A、4000A、4500A、5000A、6300A	
Mechanical structure		3-stage	
Wiring method		Rear wiring (front wiring is special supply)	
Pole numbers		3P	4P
Weight(kg)		121	190
Operating current(A)	DC110V/125V	36	38
	AC100V/110V	36	38
	AC200V/220V/230V	18	20
Tripping current(A)	DC110V/125V	6	
	AC100V/110V	6	
	AC220V	2	
Short time withstand current(A)		60kA	
Rated limit short-circuit current (fuse for protection)		180KA	
Use category		AC-33A	
Performance	Transfer time	A-B B-A	≤ 0.2s
	Service life	Electrical: 6000 times, Mechanical: 10000 times	
	Operating cycle frequency	120 times/hour	
Auxiliary switch		A and B power supply sides are 2 normally open and 2 normally closed; Switching capacity: AC 110V 5A/AC 220V 3A DC:220V 0.2A	
Accessories		Operating handle	

## INPUT AND OUTPUT COPPER BAR DIMENSIONS CHART (3200A-6300A)



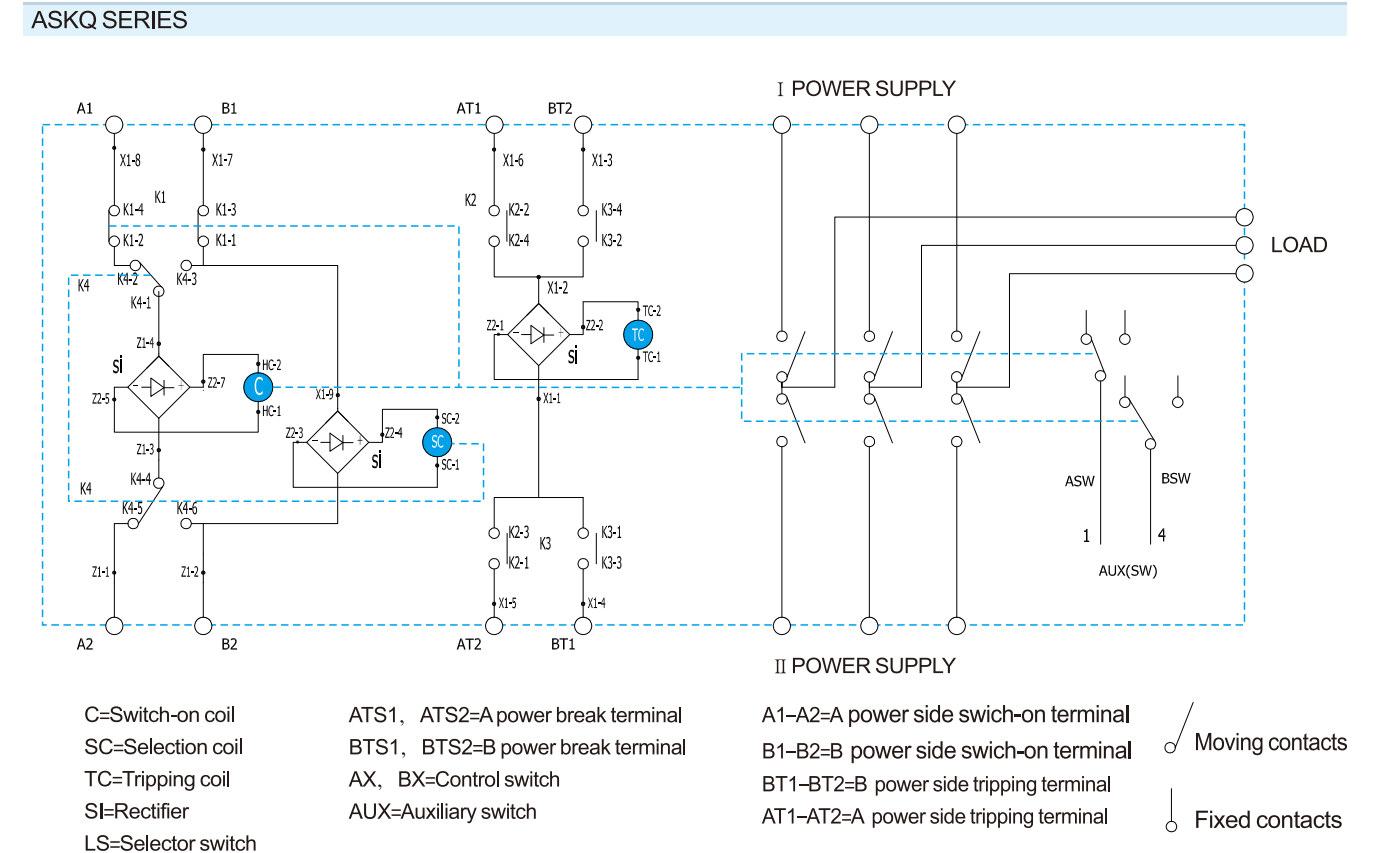
Dimensions	Copper bar dimensions	
Model	A, B, C phase	N phase
3200A-5000A	20mm	20mm
6300A	30mm	20mm

## OUTLINE DIMENSIONS DIAGRAM (3200A-6300A)

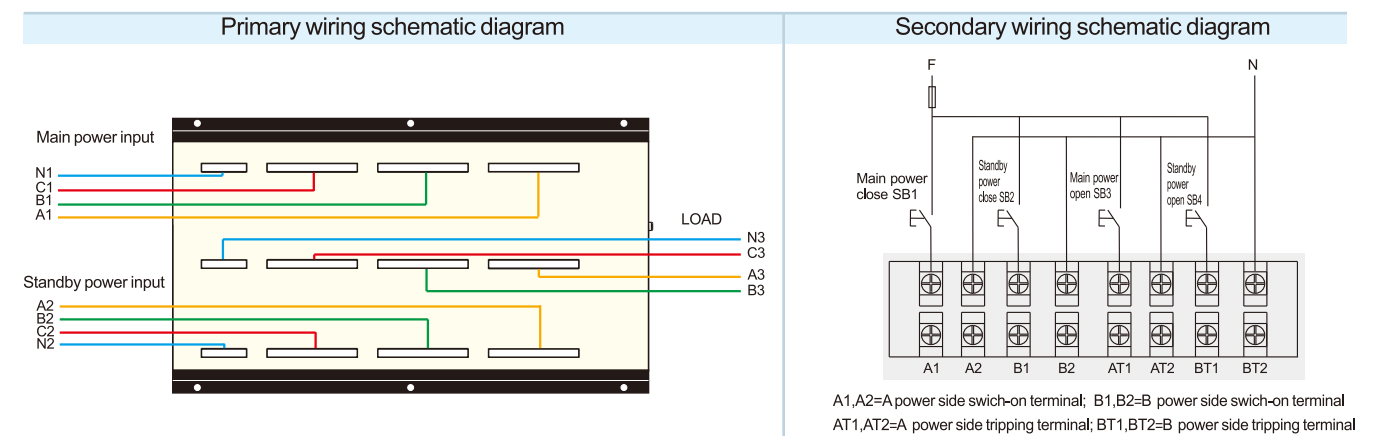


Note: ATS is equipped with four lifting rings. Before lifting, it is necessary to check the lifting rings to find out whether they are tightened up onto the mounting rail of the switch, to check the carrying capacity of the ropes to find out whether it is not less than 500kg. A trial lifting must be carried out to determine the position of the center of gravity of the ATS, so as to prevent any rollover or slipping accident occurring due to the asymmetry of center of gravity.

## INTERNAL PRINCIPLE DIAGRAM (3200A-6300A)

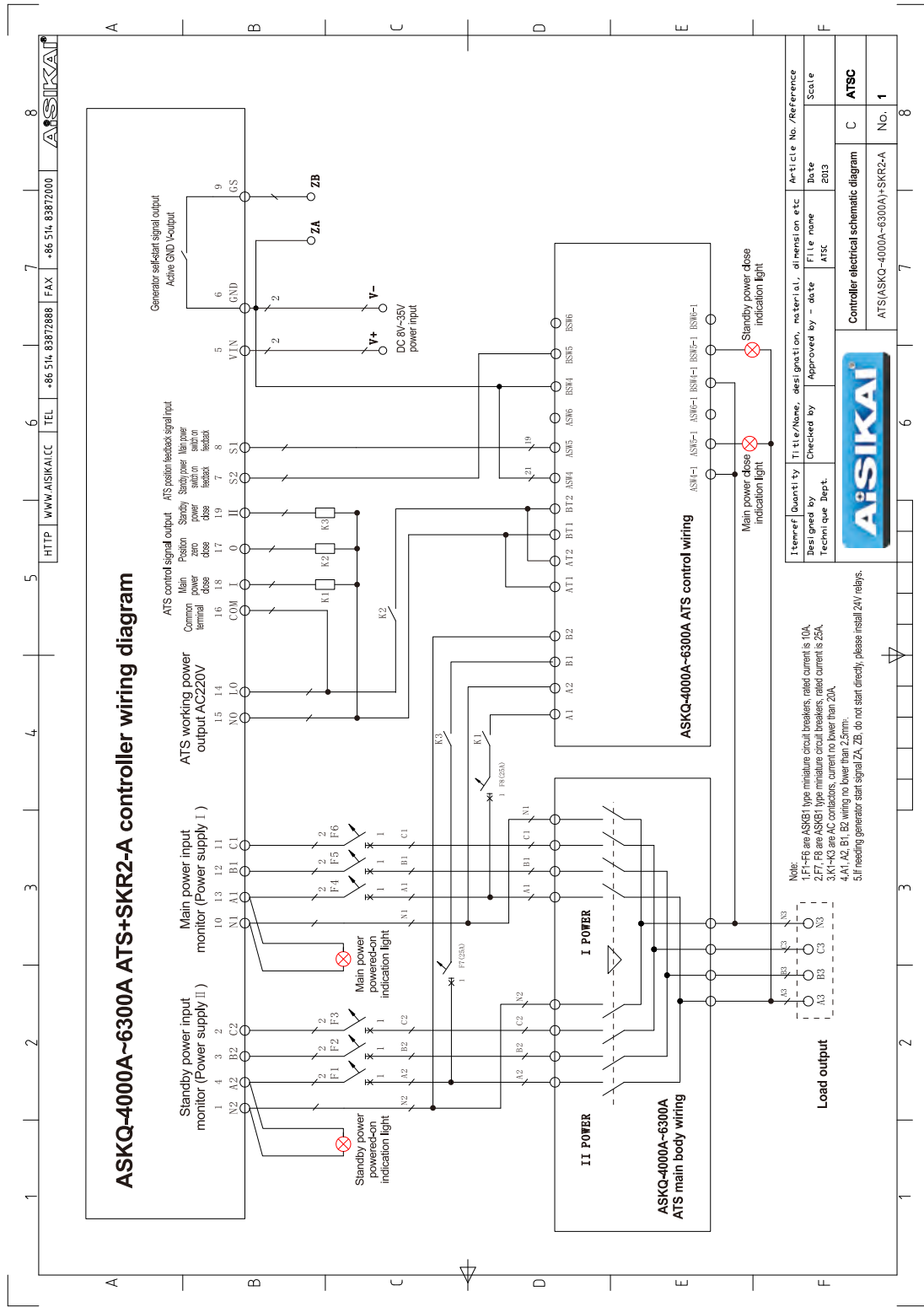


## TYPICAL WIRING DIAGRAM(3200A-6300A)

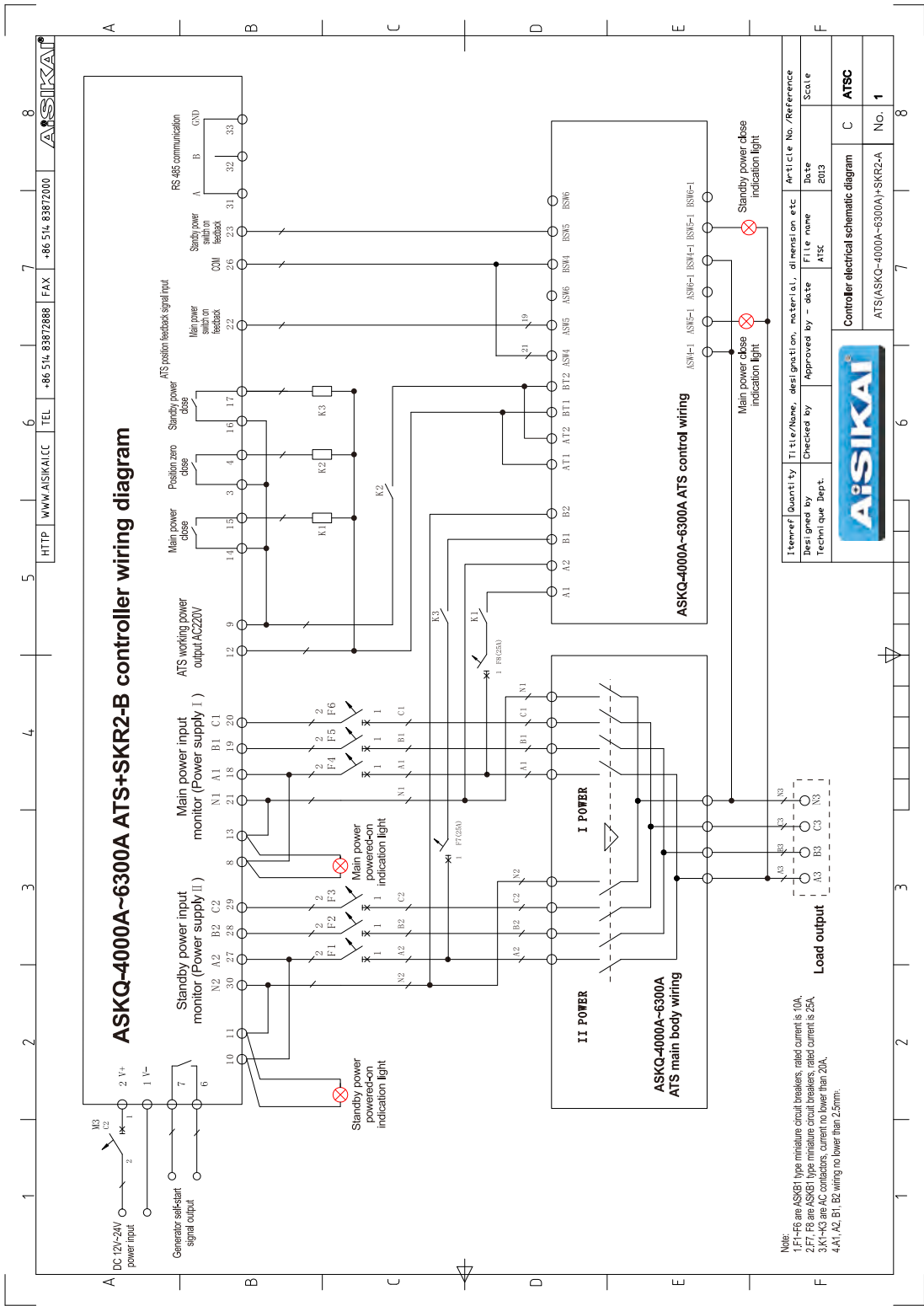




ASKQ-4000A~6300AATS+SKR2-A controller wiring diagram



ASKQ-3200A~6300A双电源开关+SKR2-B控制器专用接线图

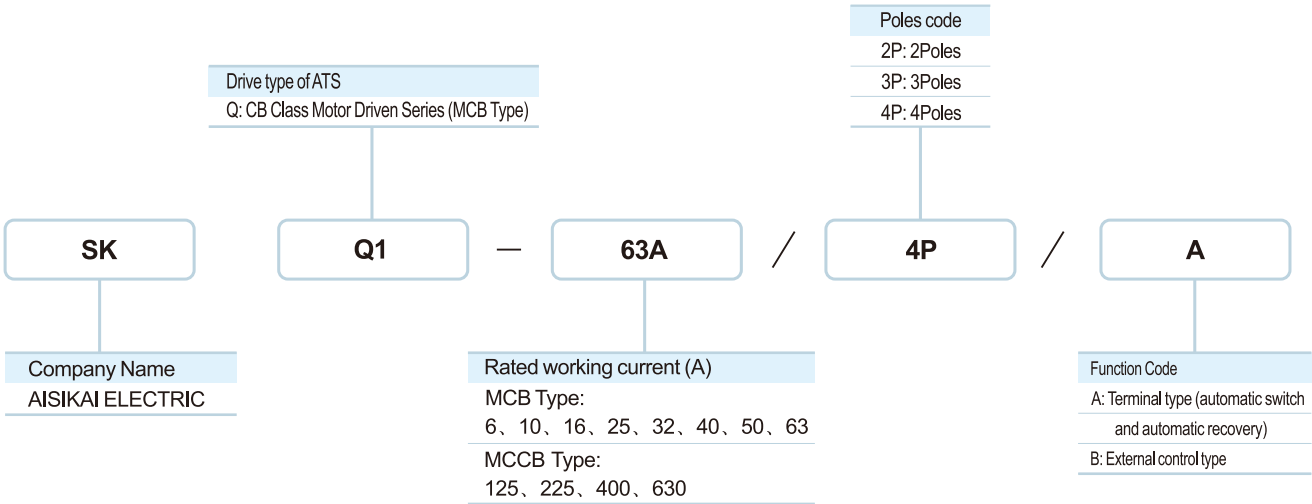


**SKQ1 SERIES CB CLASS ATS (MOTOR DRIVEN TYPE)**

**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**



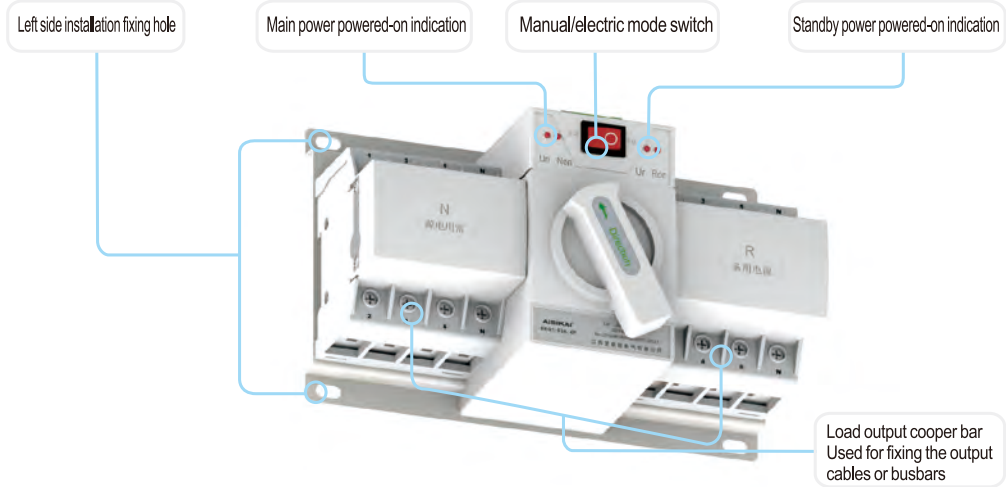
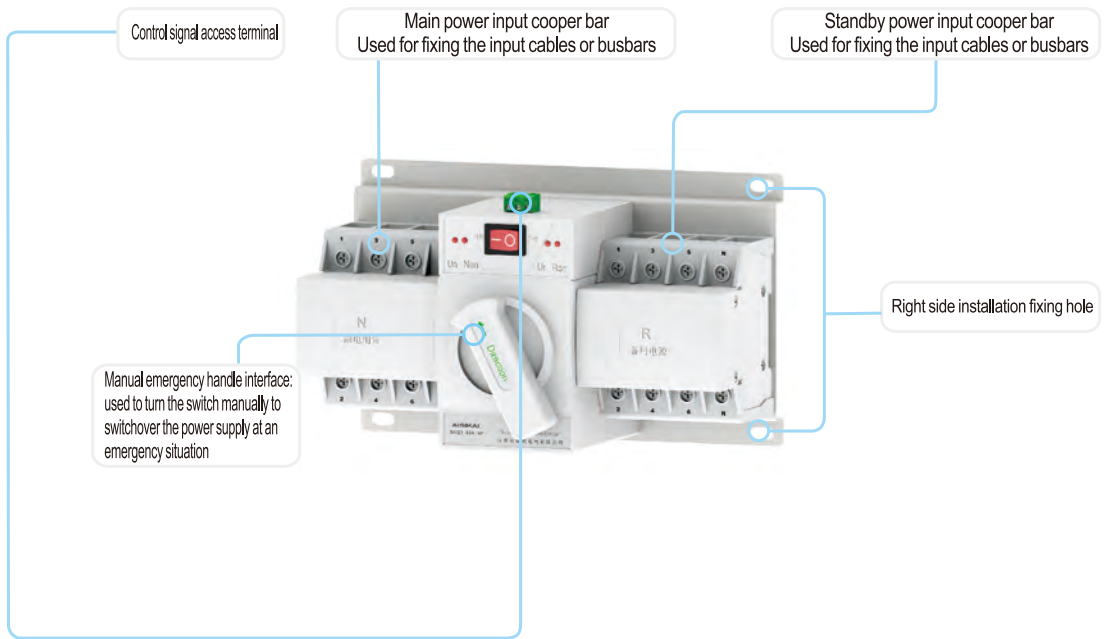
**PERFORMACE CHARACTERISTICS**

- 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

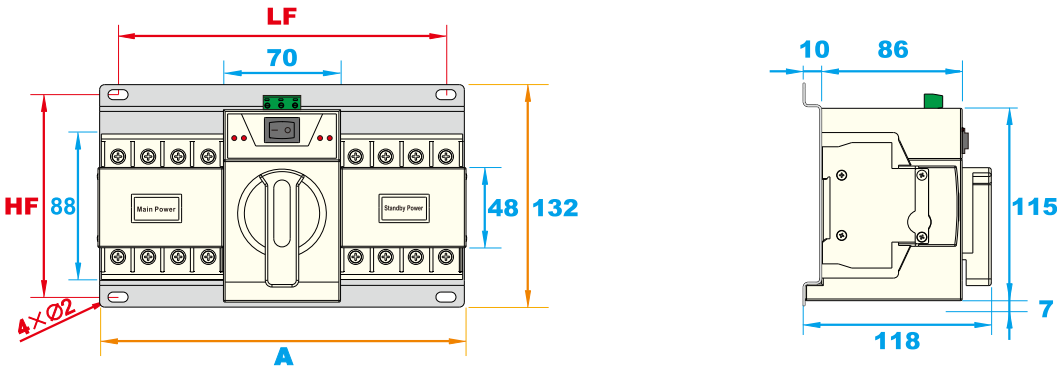
Rated short-circuit breaking capacity	5KA
Rated short-circuit making capacity	5KA
Transfer time	≤ 3s
Control voltage of transfer switch	230V
Service life of transfer switch	Mechanical: 3000 times; Electrical: 1500 times
Rated insulation voltage of copper bar UI	U=400V
Rated operating voltage of copper 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.

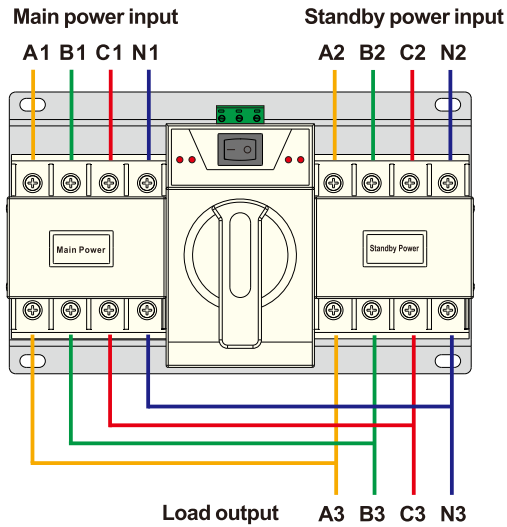
OUTLINE DIMENSIONS DIAGRAM



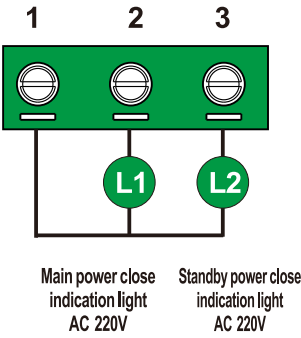
	LF	HF	A
4P	200	120	220
3P	164	120	184
2P	128	120	148

TYPICAL WIRING DIAGRAM

Primary wiring schematic diagram



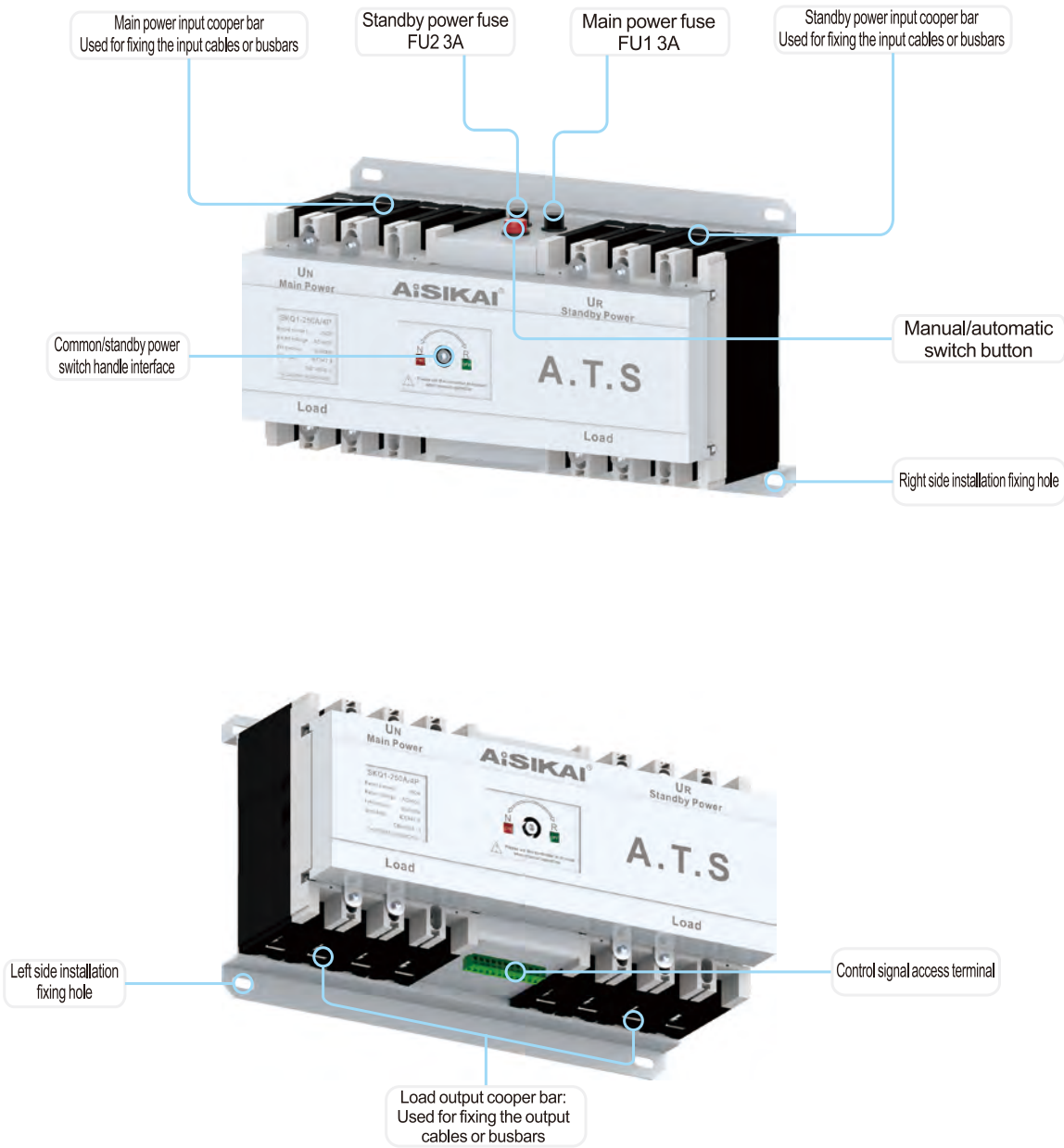
Secondary wiring schematic diagram



- 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.



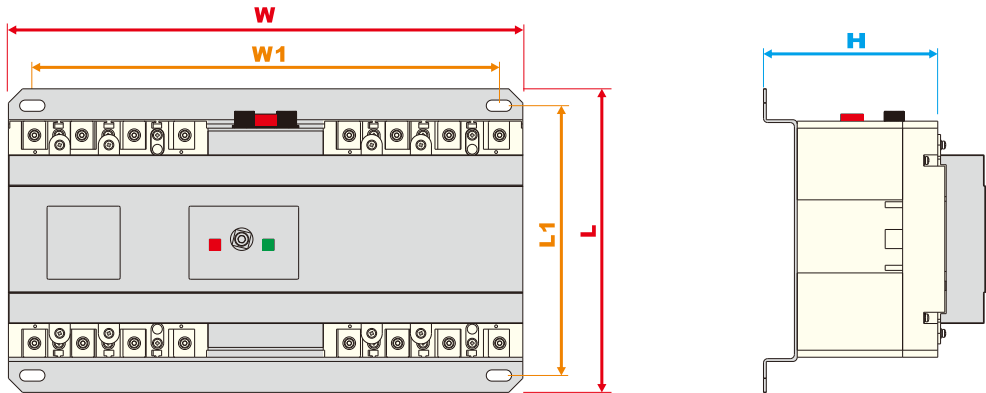
STRUCTURE INTRODUCTION (SKQ1 125A~630A)



MAIN TECHNICAL PARAMETERS

	SKQ1-125	SKQ1-225	SKQ1-400	SKQ1-630
Usage category	AC-33iB			
Rated current Ie	63A、80A、100A、125A	140A、160A、200A、225A	400A	400A、500A、630A
Rated working voltage Ue	AC400V			
Rated insulation voltage Ui	690V			
Rated short time withstand voltage Icw	10kA	10kA	12.6kA	12.6kA
Rated short-circuit making capacity Icm	17kA	17kA	25.2kA	25.2kA
Service life	Mechanical	10000		5000
	Electrical	5000		2500
Pole numbers	3P、4P			
Test operating cycles(seconds/time)	15s			
Transfer time	1~99s(delay)			

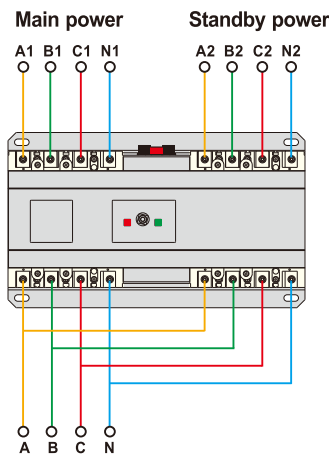
Outline and installation dimensions



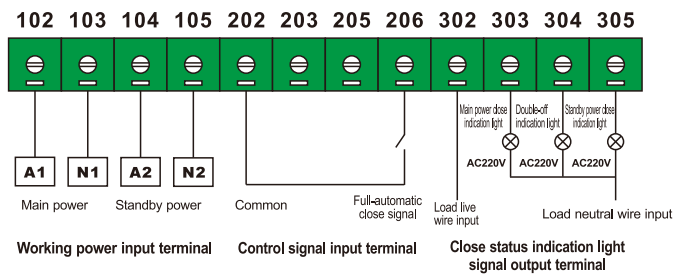
Specification	Dimension	W	L	H	W1	L1
125A/3P		290	205	120	253	186
125A/4P		320	205	120	282	186
225A/3P		330	215	140	296	195
225A/4P		365	215	140	333	195
400A/3P		465	310	190	410	285
400A/4P		505	310	190	455	285
630A/3P		528	318	195	478	295
630A/4P		588	318	195	535	295

WIRING DIAGRAM

Primary wiring schematic diagram



Secondary wiring schematic diagram: full-automatic transfer



Secondary wiring schematic diagram: remote control electrical transfer

