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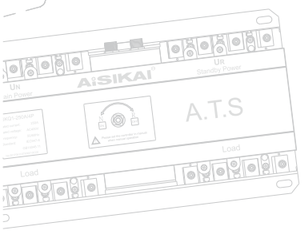
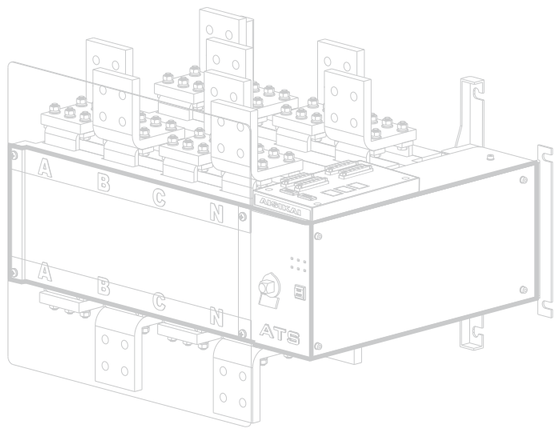
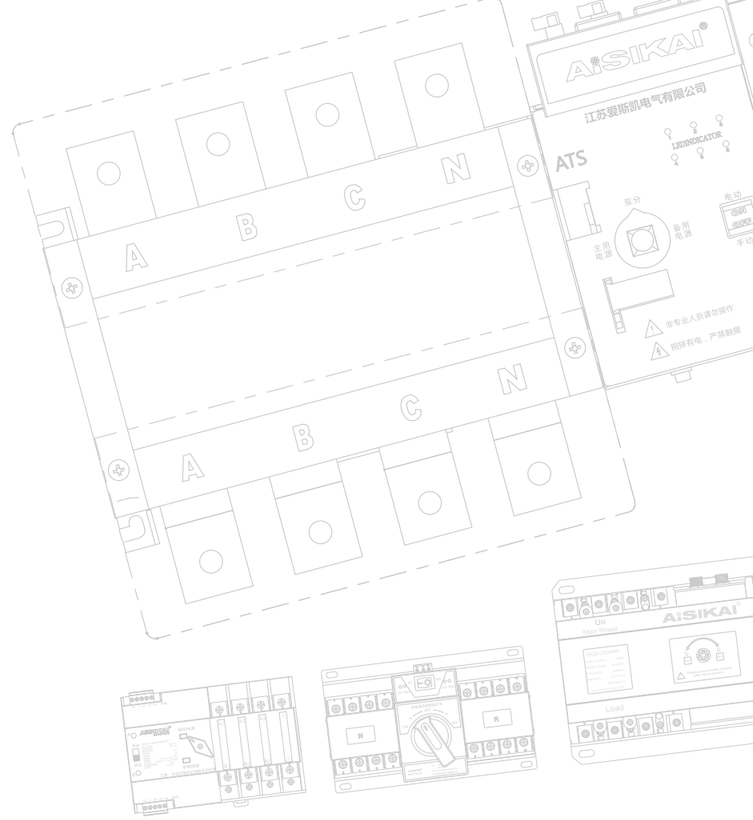
AiSIKAI®

POWER THE FUTURE









AUTOMATIC TRANSFER SWITCH

SELECTION GUIDE

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03 Product overvivew

05 SKT1,SKT2 series PC class intelligent ATS (motor driven type)

10 Main technication parameters

11 Outline and installation dimensions

15 Internal principle schematic diagram & secondary wiring schematic diagram

COMPANY PROFILE

Since established in 2007, AISIKAI has been committed to the manufacture,research, development and marketing of the high-quality high and low voltage electricswitches. Our product lines cover level Ⅰ,Ⅱ,Ⅲ power distribution fields. We areawarded as the National High Tech Enterprise, Double-Soft Certified Enterprise (i.e.,software product certified and software enterprise certified), Little Giant Science andTechnology Enterprise of Jiangsu Province, and Contract-keeping and TrustworthyEnterprise. We have invention patents, utility model patents and appearancepatents. All of AISIKAI products have China Compulsory Certification (CCC) and ChinaQuality Certification (CQC). From 2014, we have been recognized as Yangzhou CityEngineering Technology Center and National Adopting International Standard Enterprise.AISIKAI products have CE certification and IEC CB certification. We have passed theISO9001 Quality Management System and ISO14001 Environment ManagementSystem, ISO45001 Occupational Health Management System, and SGS Global QualifiedSupplier Authentication.

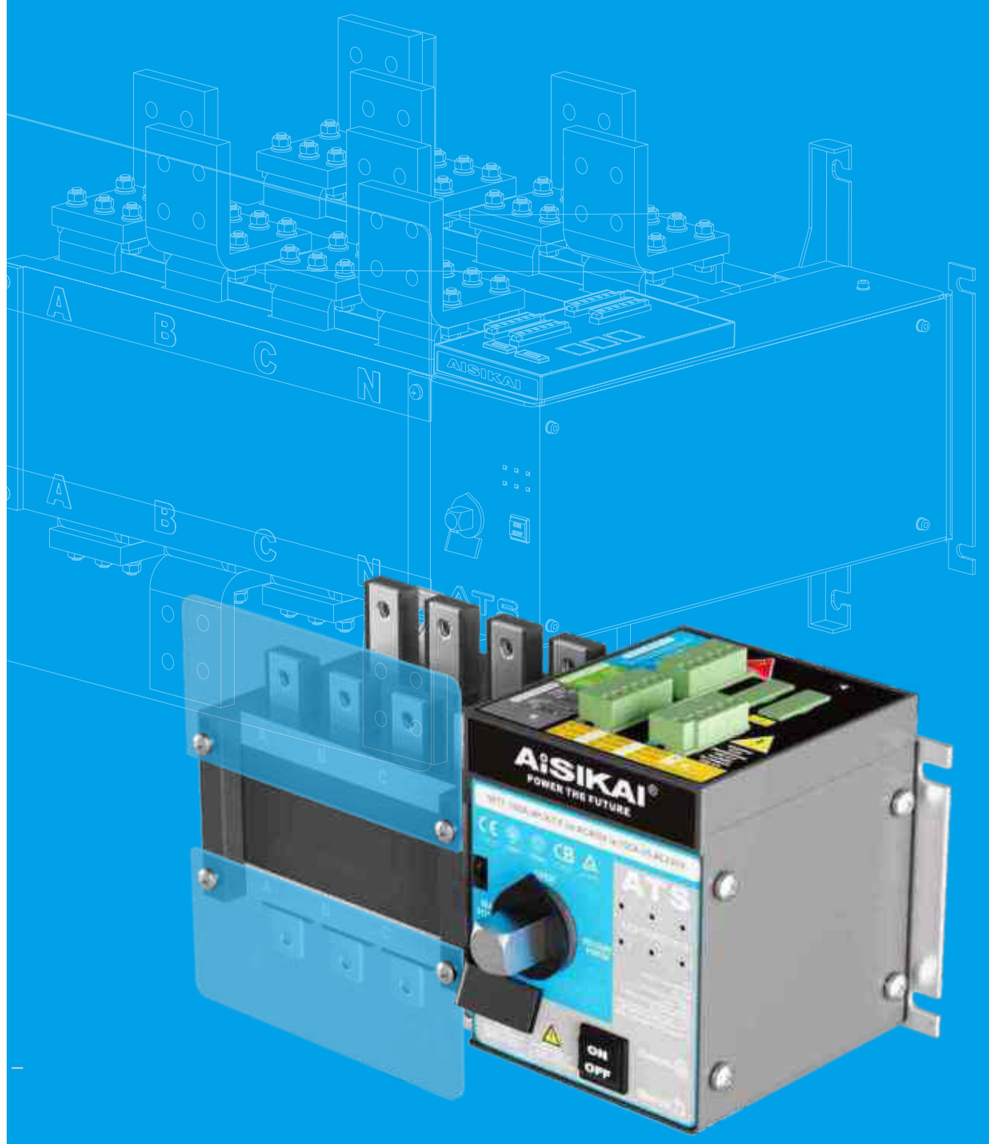
QUALITY, SERVICE, REPUTATION, INNOVATION is AISIKAI's unchanging companyprinciple. We're always eager to make progress to offer reliable products and impeccableservices. With your support and trust, AISIKAI will thrive and work towards abrighter future.





AUTOMATIC TRANSFER SWITCHES

AiSIKAI®
POWER THE FUTURE



ATS
AUTOMATIC TRANSFER SWITCH

INTELLIGENT DUAL POWER AUTOMATIC TRANSFER SWITCH

Complete Series, Comprehensive Functions

AISIKAI dual power automatic transfer switches consist of SKT, SKQ and ASKQ series. From CB class products with general performance requirements to PC class products with the highest performance, from infrequent to frequent workable products, the perfect solution can be found here. Switches have a wide current range from 6A to 6300A- easily meet the requirements of diverse loads for residential, industrial and commercial use, and are applicable to the first, second and third level distribution network system in the field of low voltage distribution. The perfect functional configuration meets the power switching between utility-utility, utility-generation, generation-generation and more complex uninterrupted backup power. We conform to the relevant technical standards of IEC/GB and implement international standards for production. Switches have national compulsory CCC certification and EU CE certification.



APPLICATION FIELD



ATS Product Line

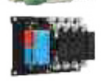
Class PC



SKT series
Motor driven type
20A–3200A



ASKQ1 series
Electromagnetic driven type
6A–63A



ASKQ2 series
Electromagnetic driven type
32A–1600A



ASKQ6 series
Electromagnetic driven type
32A– 630A



ASKQ8 series
Board front connection
630A–6300A

Class CB



SKQ1 series
Motor driven type
6A–63A



SKQ1 series
Motor driven type
125A–1600A

STANDARDS

GB10963.1-2005
IEC60898-1-2002











High-tech Product

Having leading structural design and innovative patented technology, SKT series dual power automatic transfer switches has obtained the national high-tech product certificate (Ref No.141081G0527N).The technical standards comply with IEC60947-1/IEC60947-3/IEC60947-6-1/GB14048.1/GB14048.3/GB14048.11,We implement the international production standards.The switches have national compulsory CCC certification and EU CE certification.

Ultra-small Size, Ideal for Household

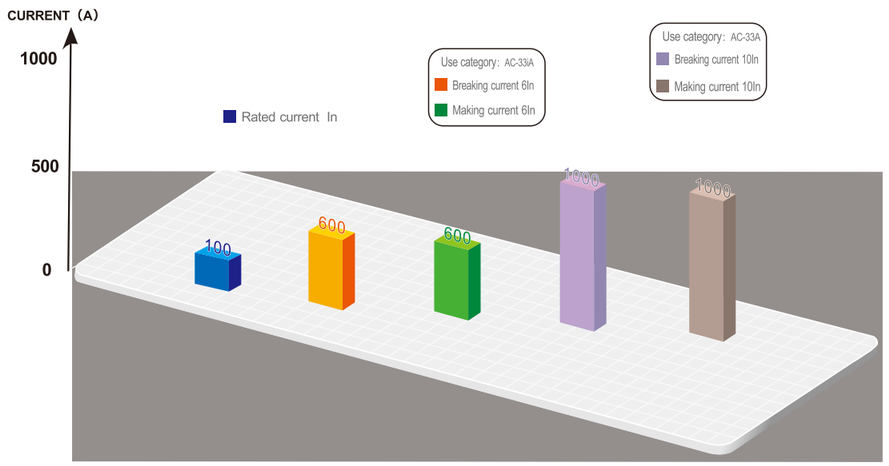
ASKQ1(6A-63A)series ATS is a new product developed by AISIKAI according to the international household market demand. Switches has four working modes: automatic, remote control, manual and lock. When matched with a small generator, it can fully meet the uninterrupted power supply requirements of family houses, villas, private clubs and other places.

Ultra-high Current, Industrial Specialist

ASKQ8(630A-6300A)series ATS is a high-performance product developed by AISIKAI for low-voltage and high-current special industrial equipment, suitable for mining and oil extraction industries, and can also be used as a main power transfer switch in civil or commercial primary distribution systems.

Highest Use Category AC-33A

SKT series automatic transfer switch has reached the highest use category of AC-33A. It can cover most of the requirements of mixed loads in civil, industrial, aviation and transportation fields. Swtiches can be frequently switched and have a breaking and making capacity of up to 10 times the rated current, which is 67% higher than the switches of AC-33iA.



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

SK	T	1	—	100A	/	4P	/	X	/	AC220V

Company Name
AISIKAI ELECTRIC

ATS Drive Mode
T：Motor

Design code
1.Standard Shell Type (current range: 20A-3200A)
2.Ultra-thin Shell Type (current range: 10A-100A）

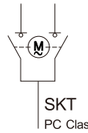
Rated working current (A)
10,16,20,25,32,40,50,63,80,100, 125,140,150,160,180,200,225, 250,315,350,400,500,630,800, 1000,1250,1600,2000,2500,3200

Poles code
2P: 2Poles
3P: 3Poles
4P: 4Poles

Functions
X: Three-position type
NAX: Intelligent Three-position type

Control Voltage
Default: AC 220V
Optional AC: 110V, 208V, 280V, 180–280V
Optional DC: 12V / 48V (≤250A), 24V (all ratings)

Design marking



Model description 1:

SKT2-100A /4P/X :
1. PC class motor driven type automatic transfer switch
2. ultra-thin frame,rated working current 100A
3. 4 poles of copper bars
4. Three-position type

Model description 2:

SKT1-800A / 3P/NAX :
1. PC class motor driven type automatic transfer switch
2. standard frame, rated current 800A
3. 3 poles of copper bars
4. Intelligent Three-position type

QUALIFICATION DOCUMENTS



CCC PATENT ISO CE TUV ROHS

OVERVIEW



- SKT series double power automatic transfer switch is the most advanced third generation product. It is PC class and AC-33A use category can be frequently operated electric transfer switch. Switches are suitable for the reliable conversion of two power sources in 50/60Hz 10A-3200A low-voltage AC power distribution system. There are four working modes: automatic, electric, emergency manual and lock.

CLASSIFICATION

- Classified 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.

- Classified by functions
  X: Three-position type
  NAX: Intelligent Three-position type

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

APPLICATIONS



Civil Commercial Industrial

STANDARDS

GB/T14048.11 IEC60947-6-1

NORMAL OPERATIONAL CONDITIONS AND INSTALLATION METHODS

Category	Requirement
Operational temperature	Between -25℃ to+ 70℃(Standard Model). The average value in 24 hours does not exceed+35℃.
Operational humidity	Up to 95% RH without condensation, provided that the ATS is installed inside a properly sealed IP65 enclosure equipped with an anti-condensation heater to prevent moisture accumulation. Direct exposure of the switch body to water, salt spray or condensation is not permitted.
Altitude	Lower than 2000 meters. Operation at altitude above 2000 meters requires derating
Vibration and gas	Use environment should be without strong vibration and shock, and without harmful gases that corrode metals and destroy insulation
Ambient substance	Without heavy dust, conductive particles and explosive hazardous substances
Pollution level	III
IP rating	IP 20
Storage requirements	Storage environment should be between -30℃ and 70℃, dry, non-corrosive and non-saline. The maximum storage time is 1 year
Packaging	Carton packaging for 630A and below; wooden crate packaging for 800A and above
Stacking	No more than 5 layers for 630A and below； no more than 3 layers for 800A and above
Installation method	Install vertically or horizontally. Upside down installation is prohibited
Wiring method	Standard is top inlet and bottom outlet. Bottom inlet and top outlet can be customized

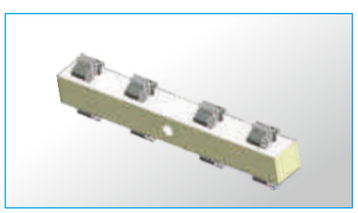
RAW MATERIAL ADVANTAGES



99.9% High Purity T2 Copper

- **99.9% High Purity T2 Copper**
  The moving and fixed contacts are made of T2 copper and the surfaces are processed with pure silver electroplating technology, so the breaking capacity is much higher than that of welded silver point switches.
- **Main Body Made of DMC**
  The main body is made of reinforced unsaturated polyester glass fiber material(DMC), which has high mechanical strength and insulation performance. It has the advantages of high strength, corrosion resistance and flame re tardan t than or dinary ABS.
- **Self-recovery Drive Motor**
  We use polychloroprene insulated moist heat type motor or permanent magnet synchronous motor (patented technology), which has high torque, low noise, long life, and self-recovery protection against overheating and overcurrent. These motors have much better comprehensive performance than electromagnet.
- **Components Brand Assurance**
  The electronic components are made of well-known brands. The main control board is produced by the first-tier domestic electronics f actory, using the three-proof process for high reliability and long service life.

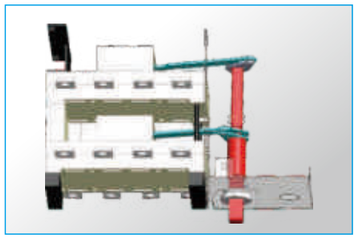
STRUCTURAL DESIGN



Double-row composite contacts

- **Double-row composite contacts**
  The moving contacts are double-row composite contacts, having the twice conductive area of the single-sided contact switches.
- **Transverse-pull moving mechanism**
  The moving contacts move transversely and reciprocally, which has the advantages of zero arc and a high safety factor compared with the longitudinal separation type switches.
- **Double interlocking mechanically and electrically**
  The precise mechanical design ensures complete isolation between the two power supplies and the logic management of the main control board achieves the electrical interlocking.
- **Safety ZERO position**
  The whole series of products are equipped with safety ZERO position, which can cut off two power supplies at the same time. Therefore, their safety performance is superior to that of the 2-section switches.

FUNCTIONAL ADVANTAGES



Mechanical interlocks

- **Prevent early failures and damage to equipment**
  Each moving contact is reliably fixed in the base by a high-strength spring plate made of silicon manganese steel. The pressure between the moving and fixed contacts is constant during the transferring process and after closing. It effectively prevent the equipment failure due to high voltage pulses caused by contact popping or chattering (common in contactor type switches). Our switcher can be installed on frequently vibrating equipment such as diesel generators.
- **Load isolation function**
  The precise safe distance can effectively isolate power supply and load, meeting the creepage requirements. Switch has a clear indication of the on/off position and can be operated with load.
- **Neutral line overlapping switching**
  This patented feature prevents equipment damage caused by neutral line potential drift when switching (optional feature)



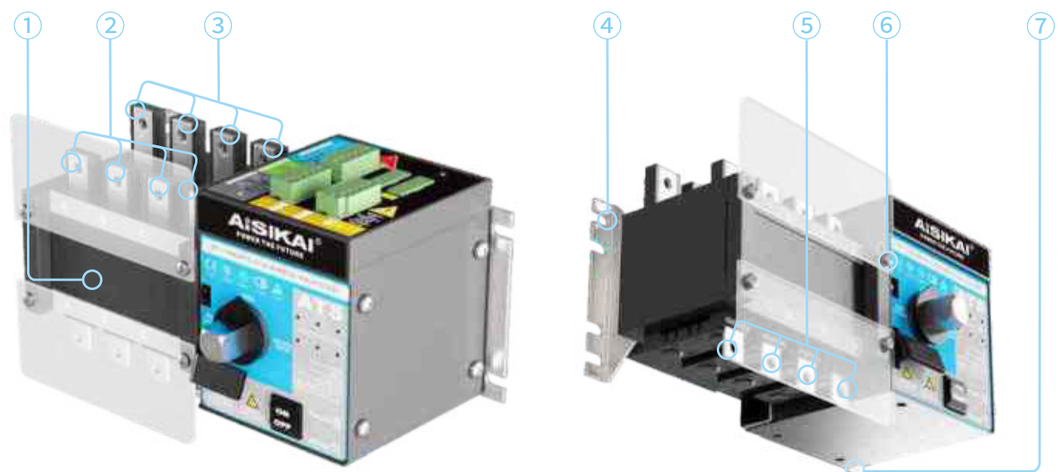
100A-250A Frame

- **Integrated Potting Main Control Circuit Board**
  The full range of frames size ATS adopts an integrated relay-type electronic control unit, which is fully encapsulated with vulcanized silicone rubber.

  With no exposed components on the surface, it offers excellent high-temperature resistance, low-temperature resistance, aging resistance, moisture resistance, mold resistance, salt spray resistance, and vibration resistance. The vulcanized silicone rubber maintains a stable state within a temperature range of -50°C to +250°C, ensuring the stability of the electronic control unit and meeting the ATS switch's operational requirements from -45°C to +70°C.
- **Clear Labeling for Easy Wiring**
  The integrated relay-type electronic control unit can be disassembled and installed from the top of the product, allowing users to arrange secondary control circuits from the front, making maintenance and servicing more convenient. The operating voltage Us of the control unit is clearly labeled for ease of use.
  The wiring terminals have been moved from the right side of the switch to the top, reducing the overall space required for the ATS cabinet by 5%-10%.

STRUCTURE INTRODUCTION

① Switch body:the standard type is top inlet and bottom outlet type.
② Main power input copper bars：Used for fixing the main power cables or busbars.
③ Standby power input copper bar:Used for fixing the standby power cables or busbars.
④ Left installation bracket:Matched with the right installation bracket for fixing the switch.
⑤ Load power output one-piece copper bars, for fixing the load cables or busbars Patent .
⑥ Protective plate installation hole, for fixing the protective plate.
⑦ Right installation bracket:Matched with the left installation bracket for fixing the switch.



① Manual emergency handle interface: you can manually turn the switch for power supply switching in case of emergency.
② Switch position status indicator.
③ LED indicators, see ATS-14 for details.
④ Electric/emergency manual mode selection button.
⑤ Terminal No.1: Electronic control unit power supply input.
⑥ Terminal No.2: Transferring control signal input (passive control).
⑦ Terminal No.3: Position feedback signal output 1 (M type has active output, other types have passive output) (400-3200A).



●No.1-4 wiring terminals are configured according to the switch model. See the Terminal Functions Introduction for details.

FUNCTION CODE TABLE

Application type	Three-position type	Intelligent Three-position type
Function Code	X	NAX
Structure		
Electrical two-section type		
Electrical Three-position type	Y	Y
Manual Three-position type	Y	Y
Control mode		
Remote electric control (external control)	Y	
Emergency manual	Y	Y
Fully automatic switching		Y(with fault detection)
Locking mode	Optional	Optional
Fire-fighting signal (forced to zero)	Passive closed signal	Passive closed signal
Main/standby power monitoring and protection		
Overvoltage protection		Single phase (optional)
Undervoltage protection		Single phase (optional)
Application function		
Automatic switch* and automatic recovery*	External control	Y
Automatic switch but not automatic recovery	External control	
Main power supply is priority	External control	Y
Standby power supply is priority	Optional	Optional
Generator self-start signal (passive)	Optional	Optional
Transfer delay	External control	Y
Power failure delay setting	External control	Y
Power recovery delay setting	External control	Y
Feedback signal	Passive（Ⅰ、Ⅱ、0）	Passive（Ⅰ、Ⅱ、0）

Note: Y means having this function.

The derating of circuit breaker at different altitude

When the altitude is higher than 2000m, the insulation characteristic, cooling characteristic, pressure etc. in atmosphere change. Revise the performance according to the form below:

Voltage

Altitude(m)	Power frequency withstand voltage(V)	Insulation voltage(V)	Rated operational voltage(V)
2000	2200	1000	690
3000	1955	800	580
4000	1760	700	500
5000	1600	600	400

MAIN TECHNICAL PARAMETERS

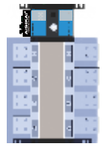
	SKT2 SERIES	SKT1 SERIES											
Frame rating current **(Inm)**	100A	160A		250A	630A		1600A				3200A		
Rated current **(In)**	100	125A	160	250	400	630	800	1000	1250	1600	2000	2500	3200
Thermal current rating **(Ith)**	10,16,20,25, 32,40,50,63, 80,100A	63,80,100, 125,140, 150,160A		160,180, 200, 225,250A	315, 350,400,500, 630A		800,1000,1250, 1600A				2000,2500,3200A		
Rated insulation voltage of copper bar **(Ui)**	1000V												
Rated impulse withstand voltage **(Uimp)**	12KV												
Rated operating voltage of copper bar **(Ue)**	AC400V / AC480V												
Mechanical durability	≥ 12,000 times	≥ 8,000 operating cycles without current											
Electrical durability	≥ 7,500 times	≥ 1,500 operating cycles with current											
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 **(Icm)**	17KA			40KA	67.2KA						105KA		
Rated limit short-circuit current (Iq) Fuses for protection	100KA	100KA		100KA	120KA		120KA				120KA		
Rated limit short-circuit current (Iq) Circuit breaker for protection	50KA	50KA		50KA	65KA		65KA				65KA		
Transferring time Ⅰ-Ⅱ or Ⅱ-Ⅰ	1.2S				0.6S		1.2S				2.4S		
Rated operating voltage of the control power Us	AC220V, special voltages: AC110V, AC208V, AC280V, AC180-280V, DC24V, DC12V/DC48V (optional for 250A and below)												
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



Best (front installation)



Right (vertical installation)

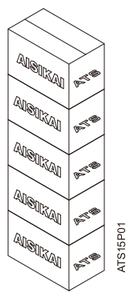


Right (back installation)

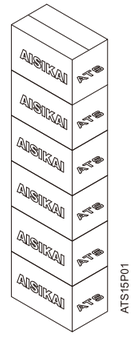


Wrong (inverted installation)

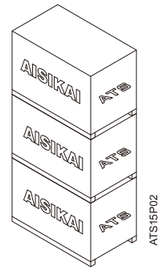
SCHEMATIC DIAGRAM OF PACKAGING STACKED



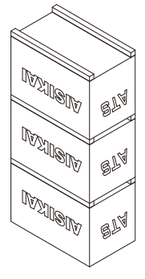
Stack at most 5 layers.



Stacking more than 5 layers is strictly prohibited.



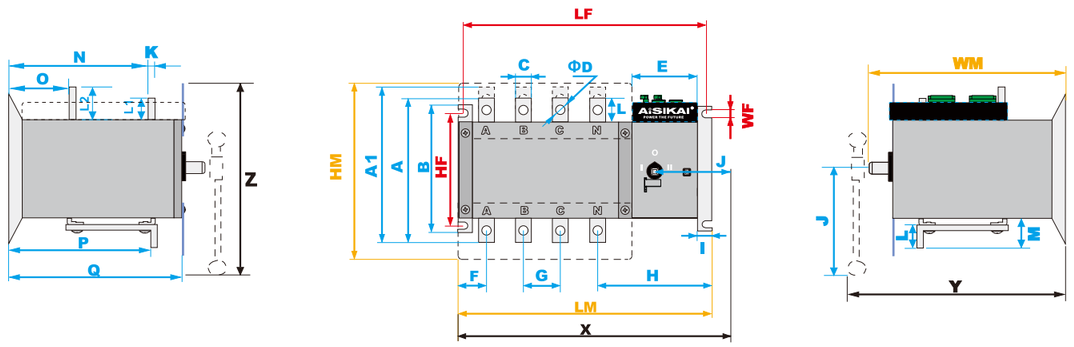
Schematic diagram of wooden box packaging stacked



Upside-down stacking is strictly prohibited.

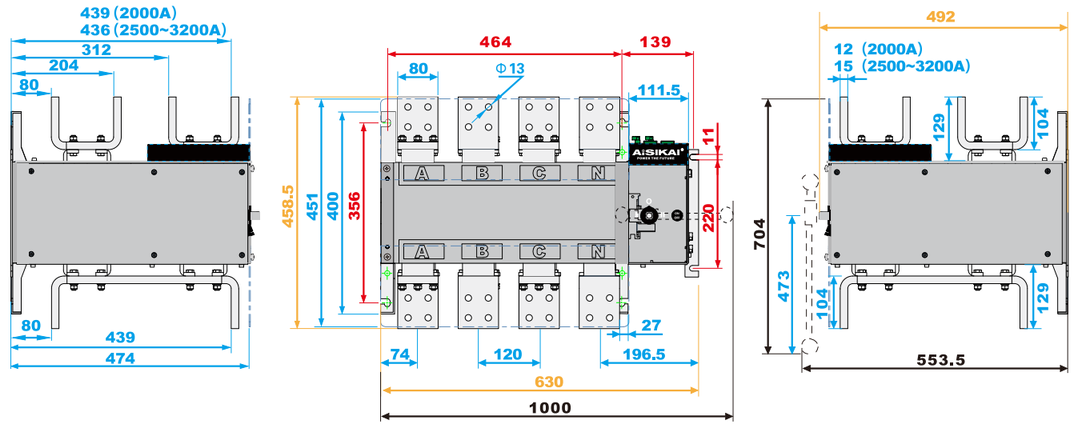
OUTLINE DRAWING 1

20A-1600A outline dimensions



OUTLINE DRAWING 2 (AUXILIARY DIMENSIONS)

2000A-3200A auxiliary outline dimensions

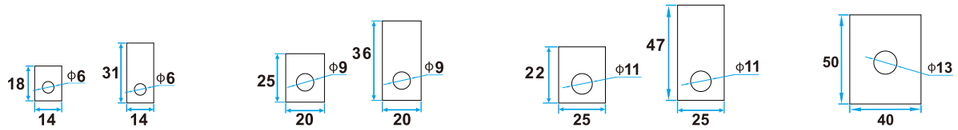


20A-1600A Outline And Installation Dimensions Table

Series	Current range	Installation dimensions			Body maximum size			Other detailed dimensions of switch							Other detailed dimensions of switch												Reference dimensions		
		LF	WF	HF	LM	WM	HM	A	A1	B	C	ΦD	E	F	G	H	I	J	K	L	L1	L2	M	N	O	P	Q	X	Y	Z
SKT2	20–100A	225	6.5	84	242.5	135.5	143	115	127	107.5	14	6	102.5	19.5	30	133	14.5	142	2. 5	18	18	31	25	87.5	37.5	87.5	114	303.5	171	208
SKT1	125–160A	271	7	110	290	188	163	142	152.5	130	20	9	102.5	33	36	150	18	188.5	3. 5	25	25	41	31.5	133	55.5	133.5	165.5	393	221	265.5
	250A	335	7	110	351	192	200	166	184	130	25	11	103	37.5	50	163.5	20	189	3. 5	27	30	51	32	136.5	57	139	169.5	452.5	227	289
	400A	416	8	180	436	263	324	270	270	200	40	13	126	45.5	65	195.5	25	189	5	45	50	50	56.5	186	77	190	239	521.5	296	355
	630A	416	8	180	436	263	324	270	270	200	40	13	126	45.5	65	195.5	25	189	6	45	50	50	56.5	186	77	190	239	521.5	296	355
	800A	608	11	220	633	321	451	355	355	252.5	60	11*16	120	77	120	196	27	473	8	73	65	65	87	248	104	256	298	1008	381	700.5
	1000A	608	11	220	633	321	451	355	355	252.5	60	11*16	120	77	120	196	27	473	8	73	65	65	87	248	104	256	298	1008	381	700.5
	1250A	608	11	220	633	321	451	355	355	252.5	60	11*16	120	77	120	196	27	473	8	73	65	65	87	248	104	256	298	1008	381	700.5
	1600A	608	11	220	633	321	451	402	402	252.5	80	13	120	77	120	196	27	473	10	97	80	80	120.5	248	104	260.5	298	1008	381	700.5

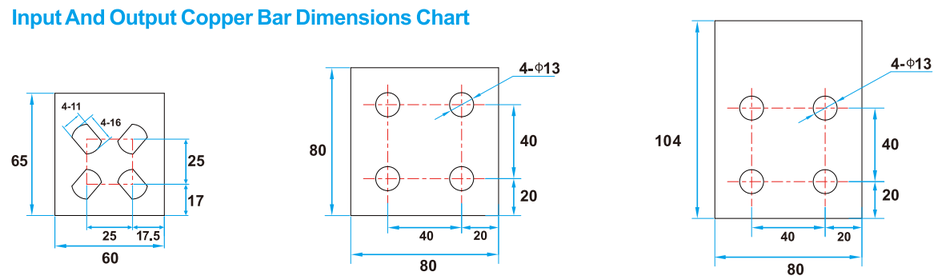
Note: X, Y and Z are the maximum width, depth and height of the switch after assembling the manual emergency handle. Depending on the angle at which the handle is mounted or the position of the moving slider, the corresponding size will be smaller than the data in the table, for reference only
The parameters of SKT1 20A-100A are exactly same as the SKT1 125A product.

Input And Output Copper Bar Dimensions Chart



20A–100A　125A–160A　250A　400A–630A

Input And Output Copper Bar Dimensions Chart

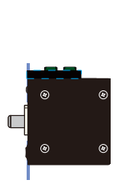


800-1250A　1600A　2000A–3200A

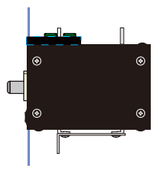
TERMINAL FUNCTIONS INTRODUCTION

Terminal Serial No.	Access point serial No.	Function	Instruction
Terminal No. 1	101、106	Power supply neutral line and live line output for feedback	Active output,**1A AC220V**
	102、103	Power supply No. 1 live line and neutral line input	> **5A AC 220V**
	104、105	Power supply No. 2 live line and neutral line input	> **5A AC 220V**
Terminal No. 2	201、206	Passive control when disconnected; active control when closed	See SKT type schematic diagram for details
	202	Common terminal of external passive control signal input	Passive control signals
	203	When closed with 202, Circuit Ⅰ is switched on	
	204	When closed with 202, Circuit 0 is switched on	
	205	When closed with 202, CircuitⅡis 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 schematic diagram for details, **1A AC 220V**
	303	Closed with 302 when Circuit Ⅰ is switched on	
	304	Closed with 302 when Circuit 0 is switched on	
	305	Closed with 302 when Circuit Ⅱ is switched on	
Terminal No. 4	401, 406	Not used	Assembled on **400A** and above
	402, 403	Closed when Circuit Ⅰ is switched on	Passive **3A AC 220V**
	404, 405	Closed when CircuitⅡ is switched on	Passive **3A AC 220V**
Terminal No. 5	501	Not used	Need to be customized
	502	Not used	
	503	Not used	
	504	Not used	
	505	Not used	
	506	Not used	

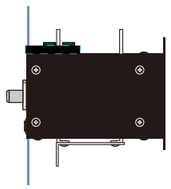
TERMINAL LOCATION DRAWING



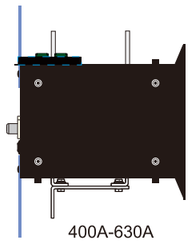
20A–100A



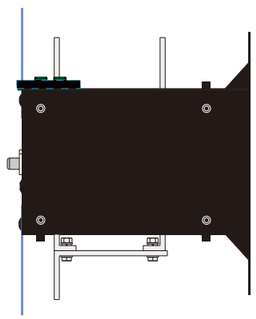
125A–160A



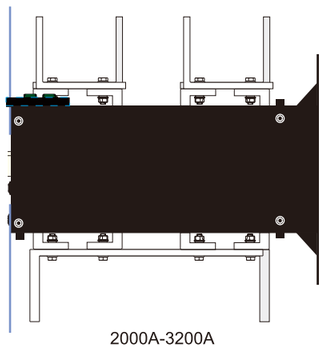
250A



400A-630A

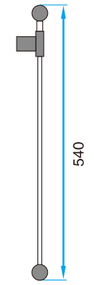


800A-1600A

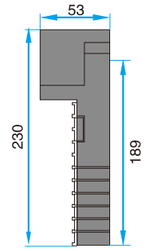


2000A-3200A

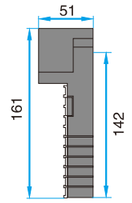
STANDARD ACCESSORIES



800A-3200A



125A-630A
Manual handle



20A-100A



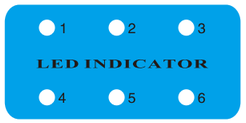
Safety guard plate



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)
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 pc/ABS**			**M12*30/12**
250	**3**	**1 pc/ABS**			**M10*25/12**
125-160	**3**	**1 pc/ABS**			**M8*25/12**
20-100	**3**	**1个/ABS**			**M6*20/12**

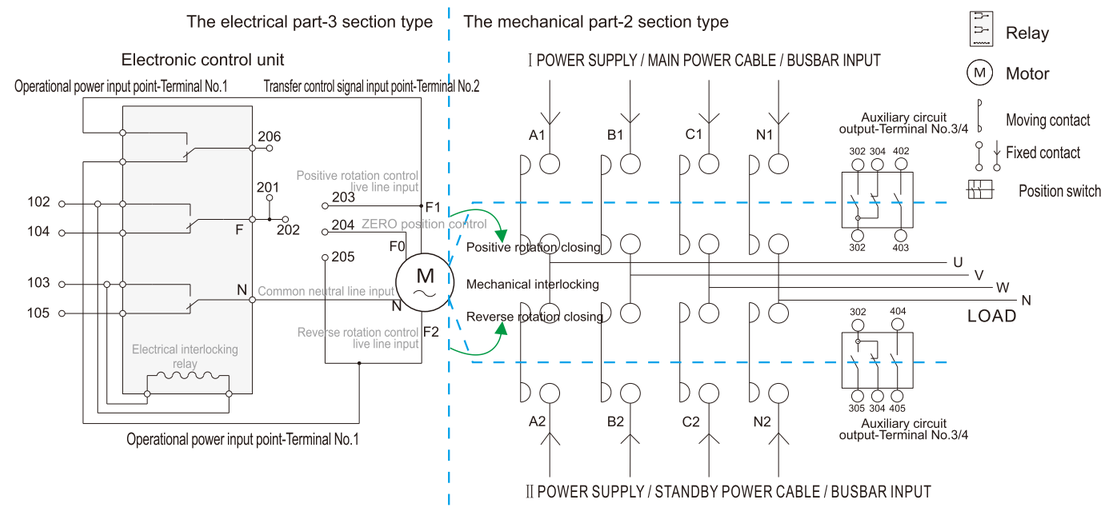
INSTRUCTIONS FOR USE OF LEDINDICATORS



Model	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
X TYPE SKT1-125~250A	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 forthis 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).
X TYPE SKT1-400~3200A	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)	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.	Line Ⅱ control relay is normal (the relay is mounted on the internal circuit board)
NAX TYPE SKT1-400~3200A	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 LineⅡ 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 Ⅱpower 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

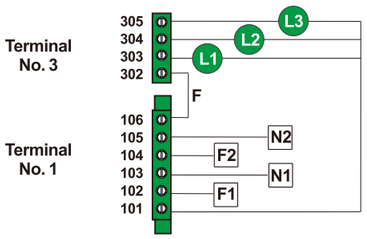
SKT-X type automatic transfer switch

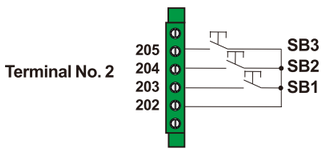
X Type Internal Schematic Diagram



- Note: The above diagram only shows the working principle and do not represent the number of internal components.

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





F1 / N1 : Power Ⅰ fire line/zero line
F2 / N2 : Power Ⅱ fire line/zero line

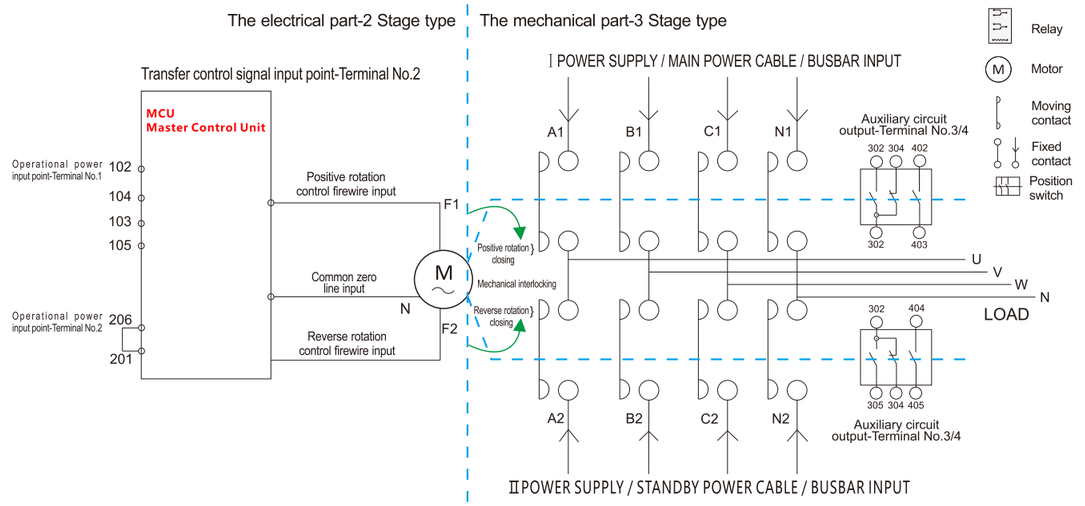
L1: Power Ⅰ indicator, Circuit Ⅰ closed
L2: Circuit ZERO close indicator light
L3: Power Ⅱ indicator, Circuit Ⅱ closed

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)

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. Passive control method can realize 3-position control.

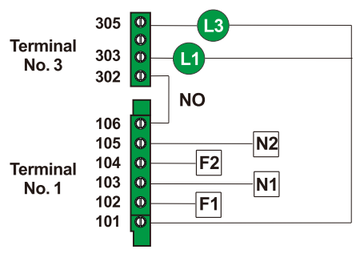
SKT-NAX type automatic transfer switch

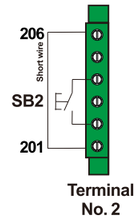
NAX Type Internal Principle Schematic Diagram



Note: The above diagram only shows the working principle and do not represent the number of internal components.

Secondary Wiring Schematic Diagram: NAX Type





F1 / N1 : Power Ⅰ fire line/zero line L1: Power Ⅰ indicator, Line Ⅰ closed
F2 / N2 : Power Ⅱ fire line/zero line L3: Power Ⅱ indicator, Line Ⅱ closed

SB2:Double off button (Circuit ZERO close)

Note: The NAX type ATS is internally equipped with an MCU type main control circuit board that has voltage detection function. When the detected voltage is outside the acceptable range, the switch will not operate. No external controller is needed. It is suitable for applications that require specific switch delay times, and it is generally used in conjunction with generator sets.