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AISIKAI-ATS-SKT-PSG-24V1.0

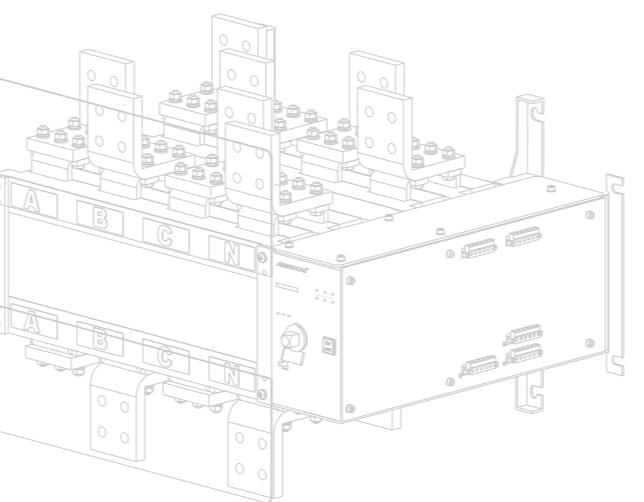
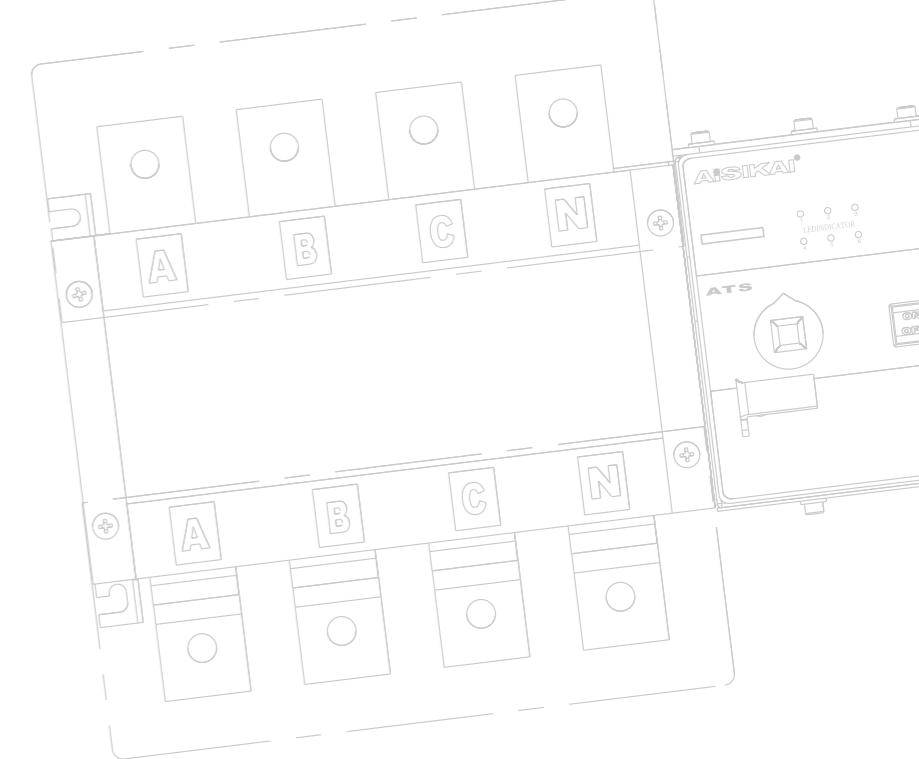
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AiSIKAI®


SKT SERIES AUTOMATIC TRANSFER SWITCH SELECTION GUIDE

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JIANGSU AISIKAI ELECTRIC CO.,LTD

PRODUCTS CONTENTS

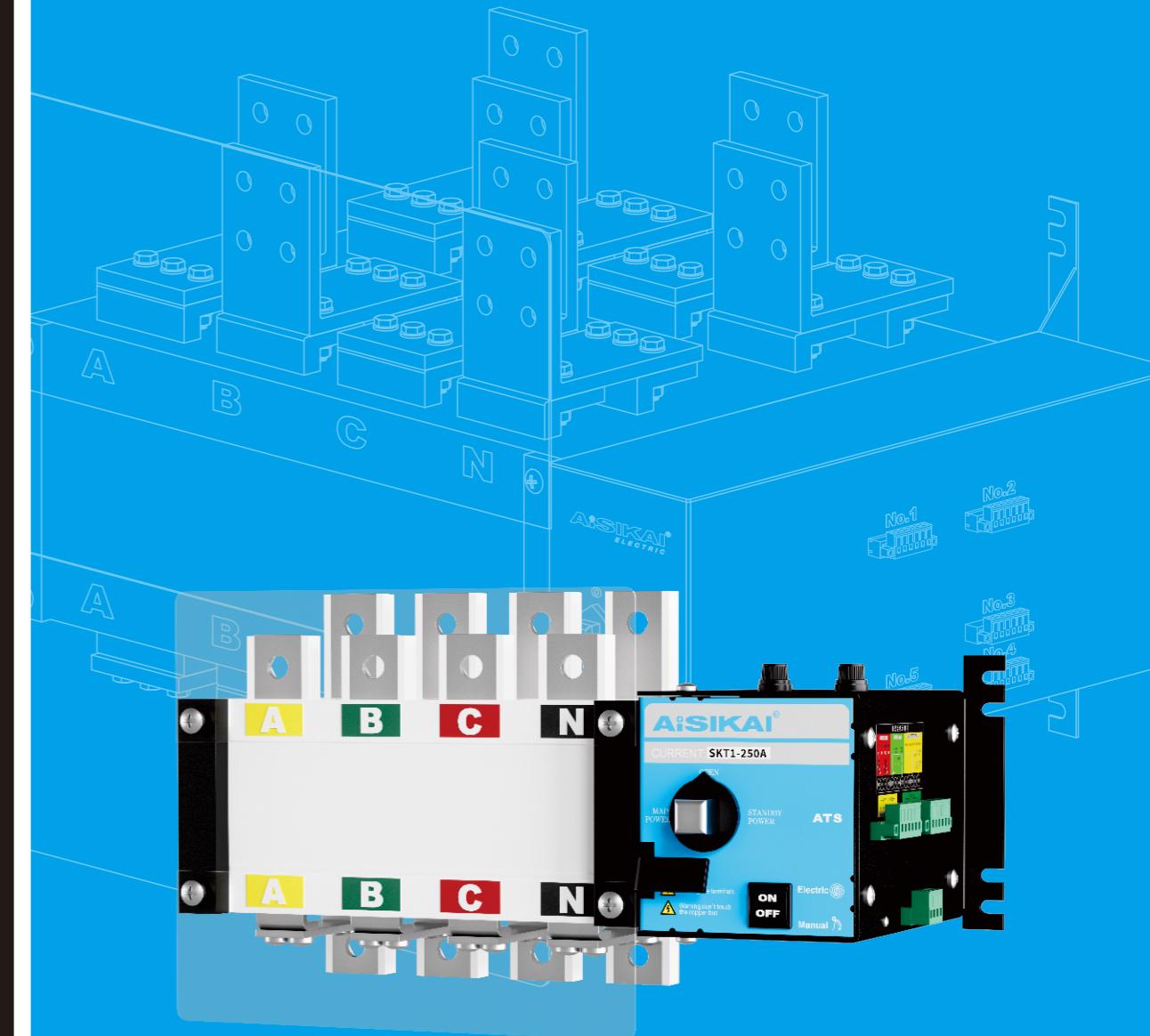
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COMPANY PROFILE

► 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!



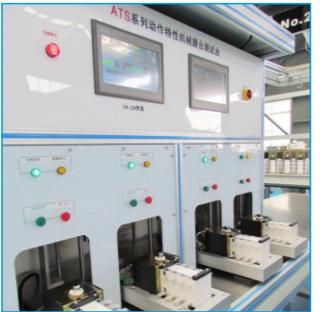
AUTOMATIC TRANSFER SWITCHES



ATS

Intelligent Dual Power Automatic Transfer Switch

Wide Range & Perfect Function



AISIKAI Automatic Transfer Switch consists of SKT 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 3200A 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 uninterrupted 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).



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 standardsof 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).

Highest Grade Usage Category AC-33A

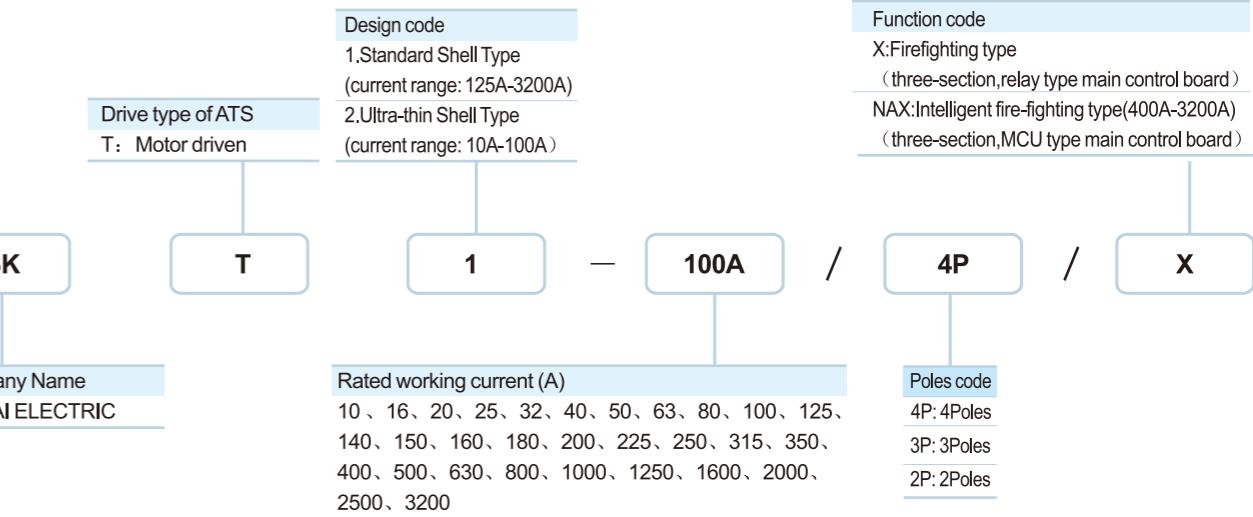
SKT series automatic transfer switch(ATS) reaches the highest AC-33A, covers most of the mixed loads requirements in areas like civil, industry, aviation, traffic, etc. ATS can be operated frequently. Its breaking and connecting capacity is up to 10 times the rated current, which is 67% higher than the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

Application field



Civil Commercial Industrial

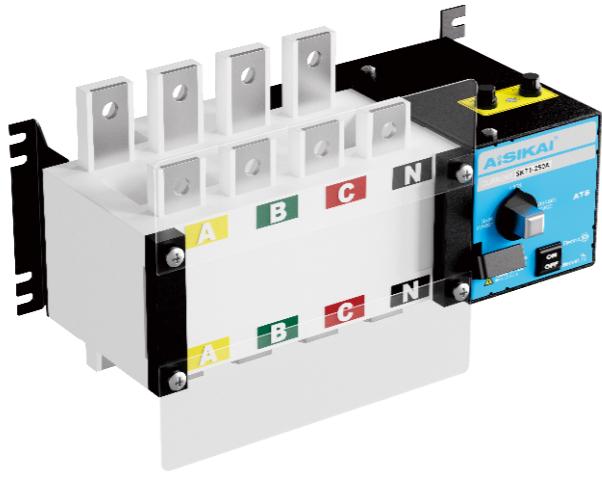
SKT1, SKT2 series PC class intelligent ATS (motor driven type) quick selection table



Normal working conditions and installation methods

Category	Requirements
Operating temperature	-20 to 45°C. The average value for 24 hours shall not exceed +35°C;
Operating humidity	The average humidity at +40°C shall not exceed 50% without condensation; If humidity exceed 50%,the life time of ATS will be reduced. The influence of humidity on service life: There is no specific test performed, therefore we cannot provide accurate data. Maintain proper ventilation and inspect use conditions regularly to keep the humidity in appropriate level.
Altitude	Lower than 2000 meters and, if higher than 2000 meters, please use reduce product rated value for use; Specification of reducing rated value according to the altitude: Generally, when every time the height increases by 1000 meters, the value should be reduced by 10%. For example,100% of rated value when at 2000m, and 90% of rated value when at 3000m.
Vibration and gas	The vibration or shock caused by external force shall not be stronger than normal operation of genset; there shall be no harmful gases to corrode the metals and to damage the insulation within the environment of its use.Otherwise, the life time of ATS will be reduced. The influence of vibration and gas on service life: There is no specific test performed, therefore we cannot provide accurate data.
Surrounding material	There shall be no serious dust, conductive particles or explosive hazardous substances
Class of pollution	Class <input checked="" type="checkbox"/>
IP rating	IP20
Storage requirements	To be stored under -30 to 70°C 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.

PRODUCT OVERVIEW



- SKT series dual power automatic transfer switch is the most advanced 3rd generation product. It's suitable to be used in 50/60HZ 10A-3200A low voltage AC power distribution system for reliable transfer between two power supplies
- The guarantee period is 1 year. We provide the service of supplying components to replace in 3 years. We will notify if we change or update the product.**

Product Grade

PC Class

Use Classes

AC -33A frequently operation

Working Modes

Four working modes: Automatic, Electric, Emergency Manual and Locking

The standard life span of motor and operation

20A-250A	15000 times
400A-630A	10000 times
800A-1600A	7000 times
2000A-3200A	5000 times

ADVANTAGE OF RAW MATERIALS



99.9% High Purity T2 Copper Material

- 99.9% High Purity T2 Copper Material**

T2 pure copper material, achieving high breaking capacity.



DMC Main Body

- DMC Main Body**

The main body is made of reinforced unsaturated polyester glass fiber Dough Molding Compounds(DMC), which has extremely high mechanical strength and insulation performance. DMC has advantages in strength, corrosion resistance and fire retardancy over ABS(Acrylonitrile Butadiene Styrene).

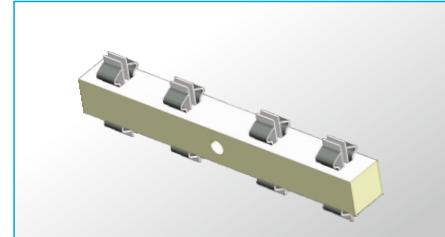


Self-restoring Drive Motor

- 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.

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.

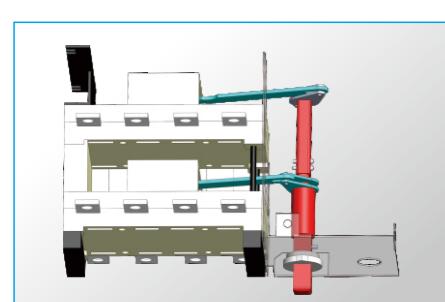
- **Double interlocking mechanically and electrically**

The precise mechanical design ensures complete separation between the two power supplies. 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 (**this function is not needed in most cases. We provide this function only when it's clearly stated in technical documentation that it is indispensable**)

PERFORMANCE ADVANTAGES



Ultra-thin design

- **High breaking and making capacity**

10 times rated current breaking capacity, 10 times rated current making capacity.

- **High-grade use category**

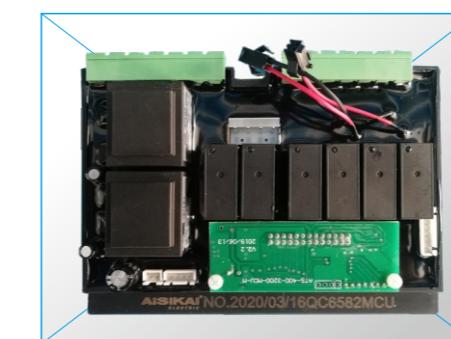
AC-33A use category, can be frequently operated, has a much wider scope of application than AC-33B none-frequently operable type.

- **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 masterswitch 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.

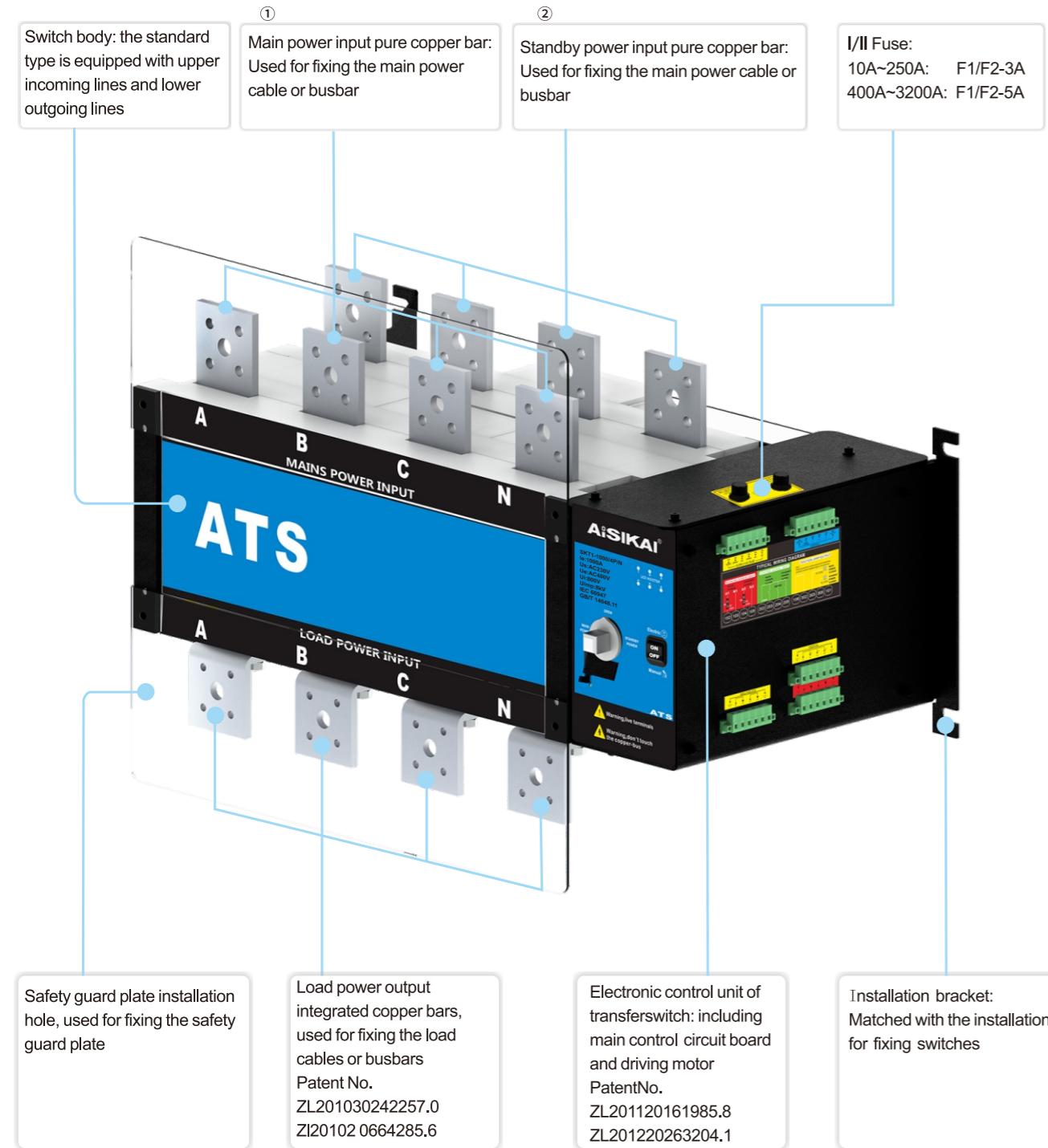


MCU microcomputer

The MCU microcomputer intelligent circuit board(NAX TYPE)

- (1) Overvoltage / undervoltage detection function
- (2) LED light indication function
- (3) Error command judgment function
- (4) Automatic judgment of city power to city power and city order to power generation function
- (5) Action command time limit function

STRUCTURE INTRODUCTION (See appendix for clear image)

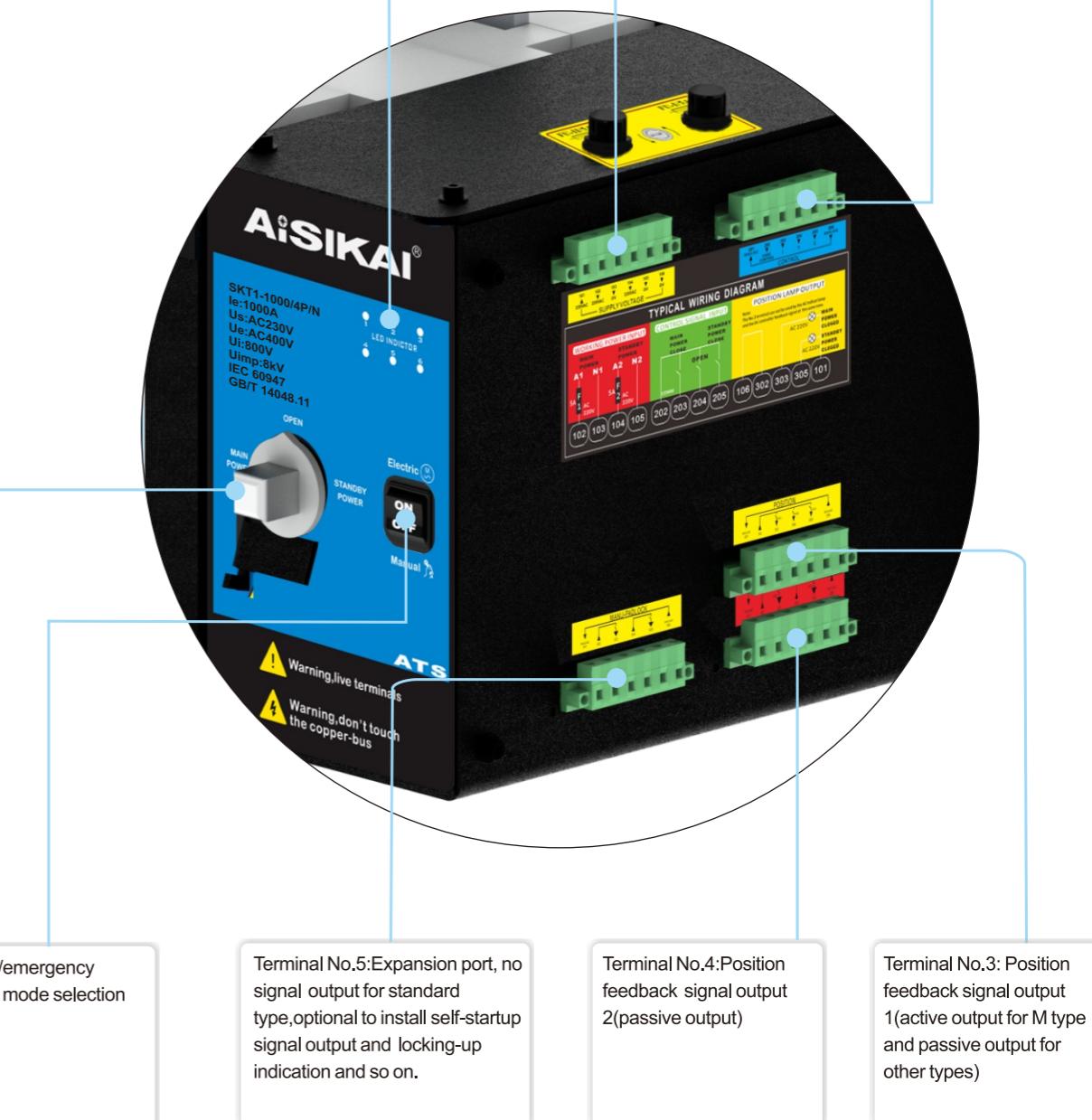


Manual emergency handle interface: used to turn the switch manually to switchover the power supply at an emergency situation

For LED indicators, see ATS-14 for details

Terminal No.1: Electronic control unit power supply input

Terminal No.2: Transfer control signal input (passive control)



① Main power is the city power. The front copper bars are connected with main power.

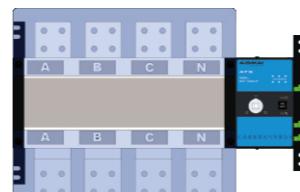
② Standby power is the generator power or sometimes another line of backup city power. The rear copper bars are connected with standby power.

No.1-5 wiring terminals are equipped according to the different types of the switches. See the Terminal Functions Introduction for details.

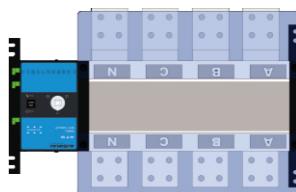
FUNCTION CODE TABLE

Application type	Fire-fighting type	Intelligent fire-fighting type
Function Code	X	NAX
Electrical three-Stage type	Y	Y
Manual three-Stage type	Y	Y
Relay type main control board	Y	
MCU type main control board		Y
External control	Y	Y
Locking mode	Optional	Optional
Fire-fighting signal (forced to zero)	Passive closed signal	Passive closed signal
Overvoltage protection		Single phase
Undervoltage protection		Single phase
Feedback signal	Passive (I、II、0)	Passive (I、II、0)

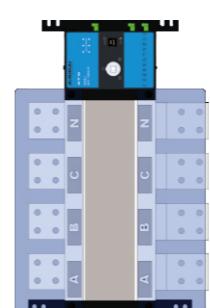
SCHEMATIC DIAGRAM OF CORRECT INSTALLATION METHOD



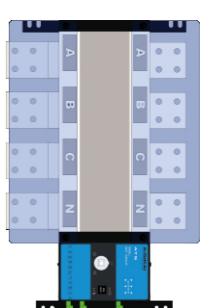
Best (front installation)



Right (back installation)



Right (vertical installation)



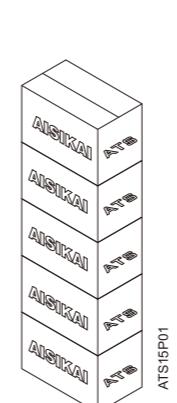
Wrong (inverted installation)

MAIN TECHNICAL PARAMETERS

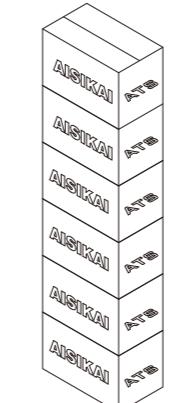
	SKT2 SERIES		SKT1 SERIES						
Shell frame grade current (Inm)	100A	160A	250A	630A	1600A	3200A			
Rated current (In)	100	125A 160	250	400 630	800 1000 1250 1600	2000 2500 3200			
Conventional thermal current (Ith)	10,16,20,25, 32,40,50,63, 80,100A	63,80,100, 125,140, 150,160A	160,180,200, 225,250A	160,180,200, 225,250,315, 350,400,500, 630A	800,1000,1250, 1600A	2000,2500,3200A			
Rated insulation voltage of copper bar (Ui)			1000V						
Rated impulse withstand voltage (Uiimp)			12KV						
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	17KA	17KA	40KA	67.2KA	67.2KA	105KA			
Rated conditional short-circuit current Ig or Icc	with Fuse 100KA	100KA	100KA	100KA	100KA	100KA			
	with MCCB 50KA	50KA	65KA	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 supply (Us)	Standard products: AC220V (customized voltage DC24V、DC110V、DC220V、AC110V、AC280V、AC220-280V)								
Start	40W		325W		440W		600W		
Normal	18W		62W		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.

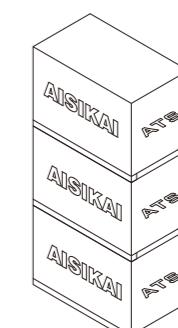
SCHEMATIC DIAGRAM OF PACKAGING STACKED



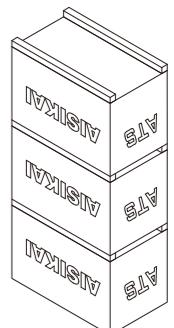
Stack at most 5 layers.



Stacking more than 5 layers is strictly prohibited.



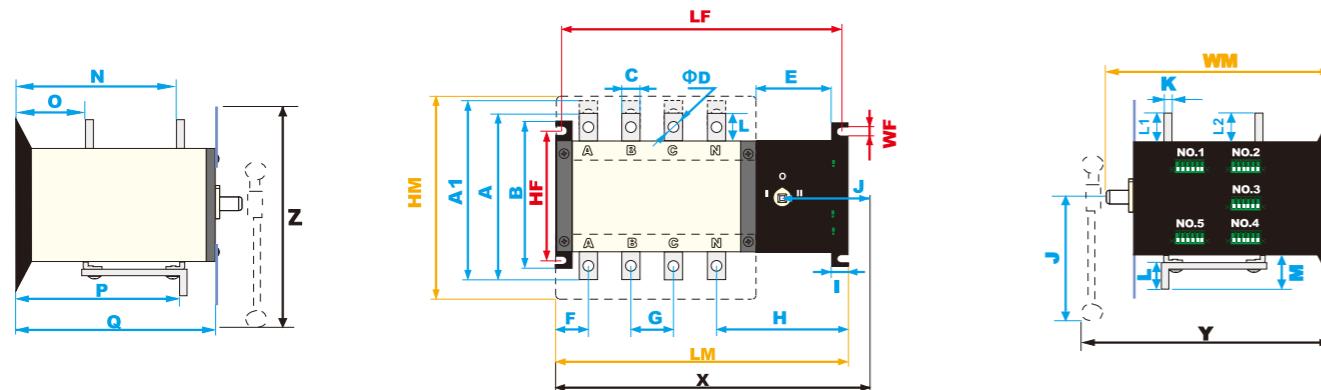
Schematic diagram of wooden box packaging stacked



Upside-down stacking is strictly prohibited.

OUTLINE DRAWING 1

20A-1600A outline dimensions



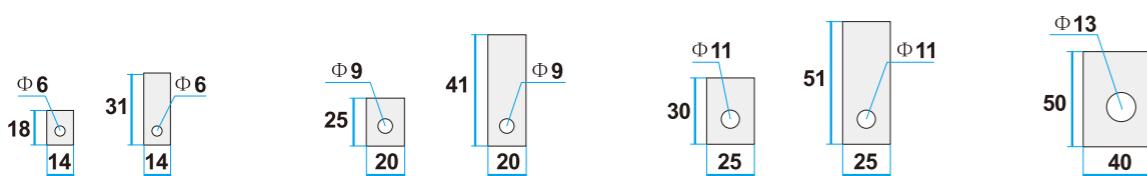
20A-1600A outline and installation dimensions table

Series	Current range	Installation data			Maximum size of the body			Other detailed dimensions of switch										Other detailed dimensions of switch										Reference dimensions		
		LF	WF	HF	LM	WM	HM	A	A1	B	C	D	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	244	138	136	126	115	106	14	6	103	20	30	134	16	142	2.5	20	18	31	26	87.5	37.5	89	114	303.5	173	210
	125-160A	271	6.5	110	290	188	180	155	140	130	20	9	103	30	36	152	18	188	3.5	25	25	41	31	133	56	133.5	167	392.5	220	279
	250A	334	6.5	110	348	194	216	192	166	130	25	11	103	38	50	160	18	188	3.5	28.5	30	51	36	136	56	138	171	460	227	303
	400A	416	8.5	180	435	262	324	270	-	200	40	13	125.5	48	64	195	24	188	5	45	51	51	59	187	77	205	237	522	293	365
	630A	416	8.5	180	435	262	324	270	-	200	40	13	125.5	48	64	195	24	188	6	45	51	51	59	187	77	205	237	522	293	365
	800A	608	11	220	633	321	451	350	-	250	63	15	120	72	120	201	27	473	7	72	66	66	88	247	103	254	298.5	1000	381	704
	1000A	608	11	220	633	321	451	350	-	250	63	15	120	72	120	201	27	473	7	72	66	66	88	247	103	254	298.5	1000	381	704
	1250A	608	11	220	633	320.5	451	350	-	250	63	16	120	72	120	201	27	473	7	72	66	66	88	247	103	254	298.5	1000	381	704
	1600A	608	11	220	633	320.5	451	392	-	250	80	13	120	72	120	201	27	473	10	100	80	80	125	247	103	254	298.5	1000	381	704

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



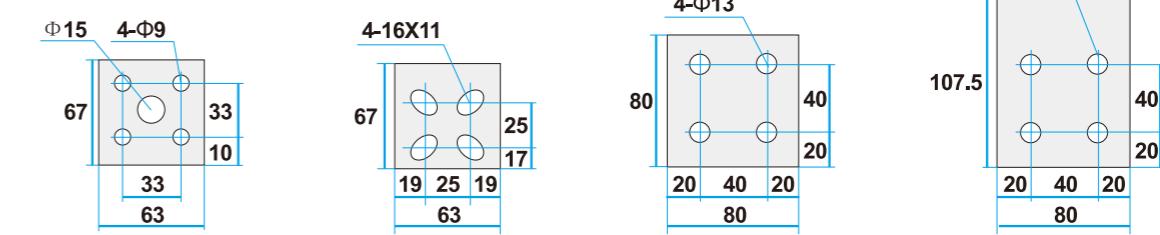
20A-100A

125A-160A

250A

400A-630A

Input and output copper bar dimensions chart



800A-1000A

1250A

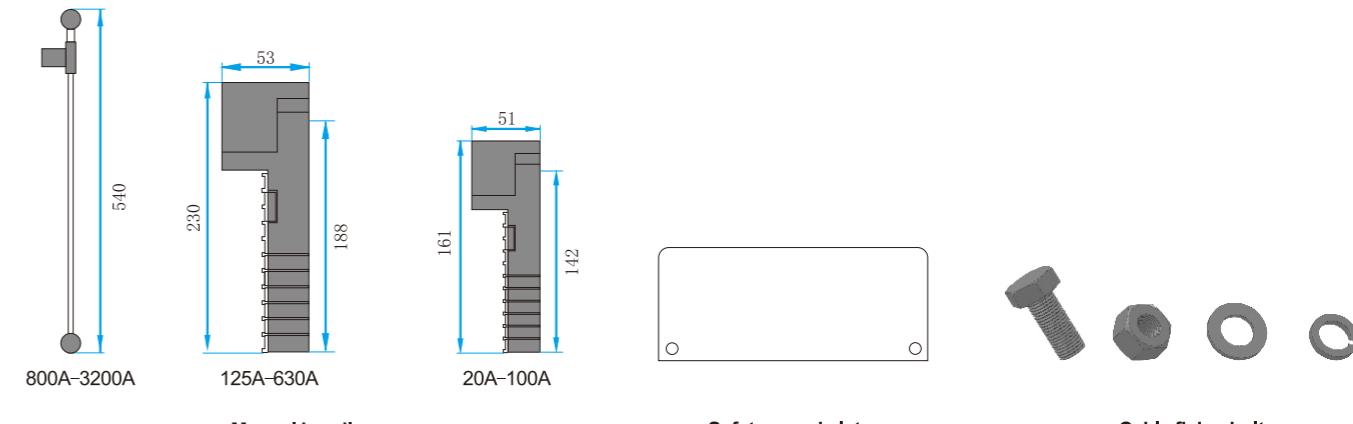
1600A

2000A-3200A

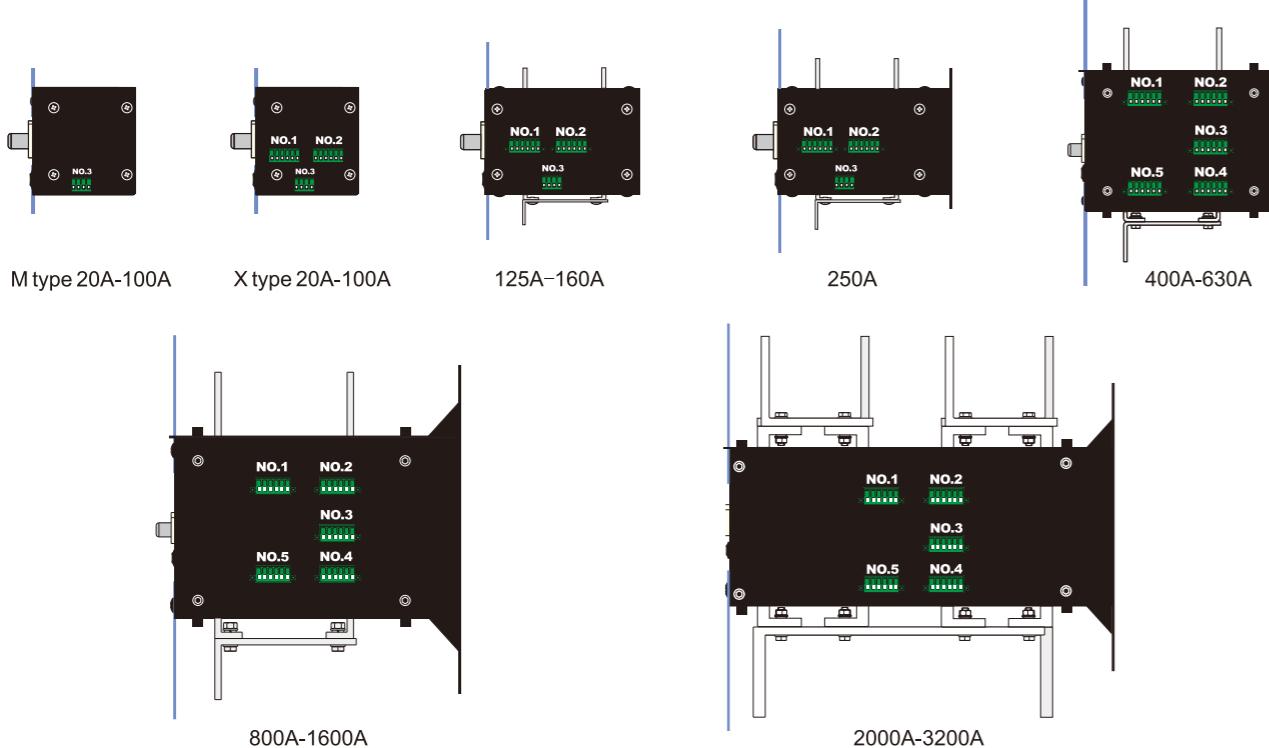
TERMINAL FUNCTIONS INTRODUCTION

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	
Terminal No. 3	204	When closed with 202, Line 0 is switched on	
	205	When closed with 202, Line II is switched on	
	301□306	Not used	Not assembled on 20A-250A
Terminal No. 4	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.	
	305	Closed with 302 when Line II is switched on.	1A AC 220V
	401□406	Not used	Assembled on 400A and above
Terminal No. 5	402□403	Closed when Line I is switched on	Passive 3A AC 220V
	404□405	Closed when Line II is switched on	Passive 3A AC 220V
Terminal No. 5	501	Not used	
	502	Not used	Optional parts, passive 3AAC 220V
	503	Not used	
	504	Not used	
	505	Not used	Optional parts, passive 3AAC 220V
	506	Not used	

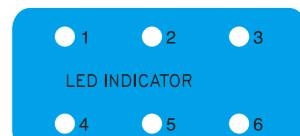
STANDARD ACCESSORIES



TERMINAL LOCATION DRAWING



INSTRUCTIONS FOR USE OF LED INDICATORS

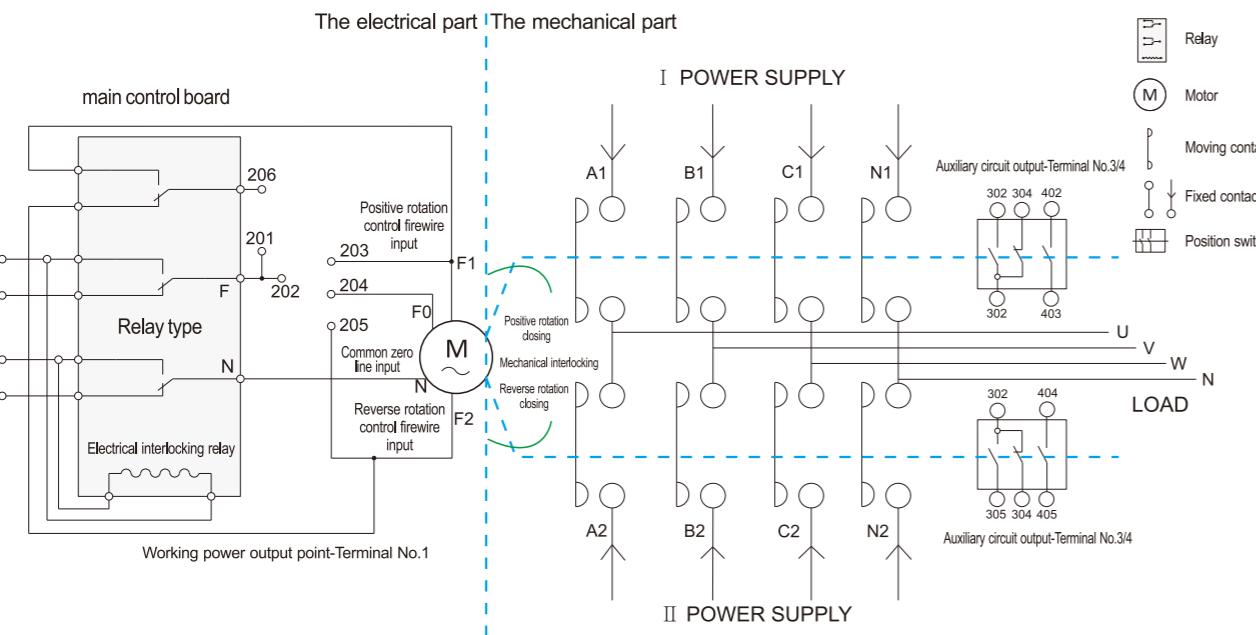


Model	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
X TYPE SKT1- 125~250A	Line I control power supply is powered-on. (There is AC 220V between the access points 102 and 103 of No. 1 terminal)	Line I control relay is normal (The relay is mounted on the internal circuit board. No. 3 light is used for this function, only when No. 4 light is not lit up.)	Line I control power supply is powered-on. (There is AC 220V between the access points 104 and 105 of No. 1 terminal)	Line II control power supply is powered-on. (There is AC 220V between the access points 102 and 103 of No. 1 terminal)	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 relay is normal (The relay is mounted on the internal circuit board.)	Line I control power supply is powered-on. (There is AC 220V between the access points 104 and 105 of No. 1 terminal)	Line II control power supply is powered-on. (There is AC 220V between the access points 102 and 103 of No. 1 terminal)	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 voltage of Line II power is normal (There is AC 220V between the access points 104 and 105 of No. 1 terminal). If the light flashes, the voltage of Line II power is abnormal.	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.	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 series have no LED indicators

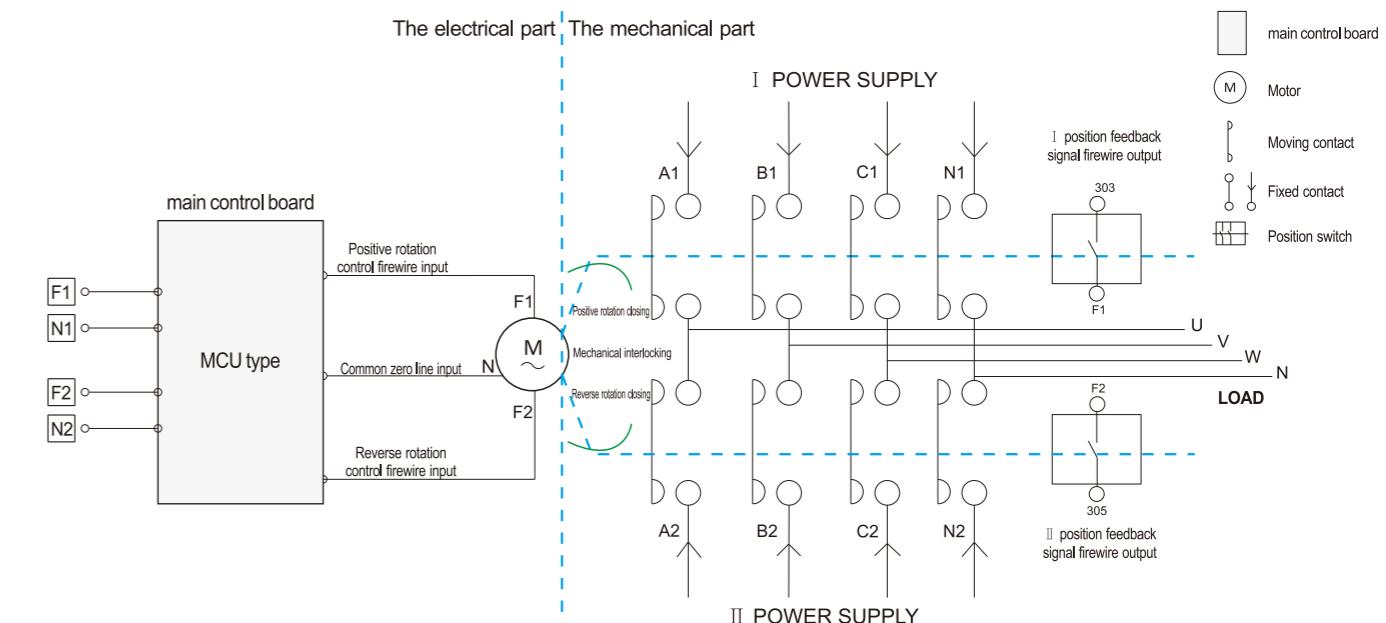
SKT-X type automatic transfer switch

X Type Internal Principle Schematic Diagram

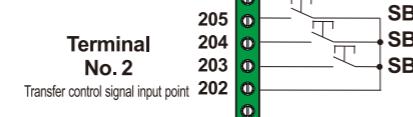
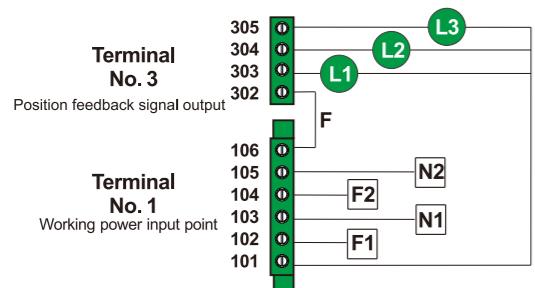


SKT-X type automatic transfer switch

X Type Internal Principle Schematic Diagram



Secondary Wiring Schematic Diagram: X Type

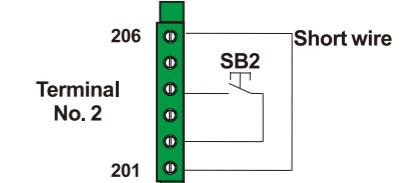
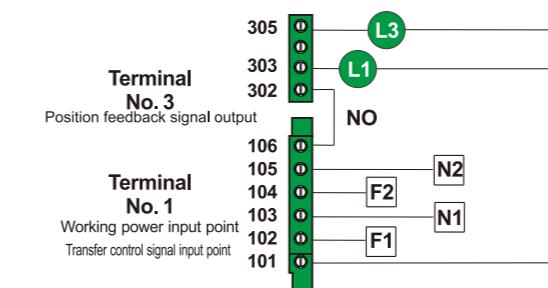


[F1] / [N1]: Power I fire line/zero line
[F2] / [N2]: Power II fire line/zero line

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)

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.

Secondary Wiring Schematic Diagram: NAX Type (400A~3200A)



[F1] / [N1]: Power I fire line/zero line L1: Power I indicator, Line I closed
[F2] / [N2]: Power II fire line/zero line L2: Power II indicator, Line II closed
SB2: Double off button (Line 0 close)

APPENDIX
CERTIFICATIONS

IEC	IECEE	Ref. Certif. No.
		HU-003473-M1
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME		
CB TEST CERTIFICATE		
Product	Automatic Transfer Switching Equipment	
Name and address of the applicant	JIANGSU AISIKAI ELECTRIC CO.,LTD. No.5,ChuangYe road,ChenJi Industrial Zone, YiZheng City, Jiangsu, P.R. China	
Name and address of the manufacturer	JIANGSU AISIKAI ELECTRIC CO.,LTD. No.5,ChuangYe road,ChenJi Industrial Zone, YiZheng City, Jiangsu, P.R. China	
Name and address of the factory	JIANGSU AISIKAI ELECTRIC CO.,LTD. No.5,ChuangYe road,ChenJi Industrial Zone, YiZheng City, Jiangsu, P.R. China	
Ratings and principal characteristics	Ui:1000V; Uimp:12kV; Ue:AC400V,50Hz; Ith:250A; Ie:125/140/150/160/180/200/225/250A; Class PC; AC-33A; Number of Poles: 3P,4P; Iq:100kA(SCPD:RT36) or 50kA(SCPD:ASKM1)	
Trademark (if any)	AISIKAI	
Customer's Testing Facility (CTF) Stage used	N/A	
Model / Type Ref.	SKT1	
Additional information (if necessary may also be reported on page 2)	This Certificate is Amendment No.1 to CBTC ref. No. HU-003473, dated 2021-06-30, and is issued due to updating standard.	
A sample of the product was tested and found to be in conformity with	IEC 60947-6-1:2021 IEC 60947-1:2020	
As shown in the Test Report Ref. No. which forms part of this Certificate	CN21ISTC 002	
This CB Test Certificate is issued by the National Certification Body		
 TÜVRheinland® <small>TÜV Rheinland InterCert Kft., MEEI Division H-1143 Budapest, Gizella út 51-57., Hungary Web: www.tuv.com</small>		<small>10/06/2022 07:46:45</small>
Date:	2023-04-03	Signature:
Wencai Zhang		
<small>Disclaimer: This is an electronically released document. The authenticity of this certificate can be verified on the IECEE Website "http://certificates.iecee.org"</small>		

IEC	IECEE	Ref. Certif. No.
		HU-004641
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME		
CB TEST CERTIFICATE		
Product	Automatic Transfer Switching Equipment	
Name and address of the applicant	JIANGSU AISIKAI ELECTRIC CO.,LTD. No.5,ChuangYe road,ChenJi Industrial Zone, YiZheng City, Jiangsu P.R. China	
Name and address of the manufacturer	JIANGSU AISIKAI ELECTRIC CO.,LTD. No.5,ChuangYe road,ChenJi Industrial Zone, YiZheng City, Jiangsu P.R. China	
Name and address of the factory	JIANGSU AISIKAI ELECTRIC CO.,LTD. No.5,ChuangYe road,ChenJi Industrial Zone, YiZheng City, Jiangsu P.R. China	
Ratings and principal characteristics	Ui:1000V; Uimp:12kV; Class PC; AC-33A; Ue:AC400V, 50/60Hz; Number of Poles:3P,4P; Ie:315/350/400/500/630/800/1000/1250/1600/2000/2500/3200A; Iq:120kA(SCPD:RT36) or 65kA(SCPD:ASKM1)	
Trademark / Brand (if any)	AISIKAI	
Customer's Testing Facility (CTF) Stage used	N/A	
Model / Type Ref.	SKT1	
Additional information (if necessary may also be reported on page 2)	N/A	
A sample of the product was tested and found to be in conformity with	IEC 60947-6-1:2021 IEC 60947-1:2020	
As shown in the Test Report Ref. No. which forms part of this Certificate	CN23XRGG 001	
This CB Test Certificate is issued by the National Certification Body		
 TÜVRheinland® <small>TÜV Rheinland InterCert Kft., MEEI Division H-1143 Budapest, Gizella út 51-57., Hungary Web: www.tuv.com</small>		<small>10/06/2022 07:46:45</small>
Date:	2023-10-29	Signature:
Wencai Zhang		
<small>Disclaimer: This is an electronically released document. The authenticity of this certificate can be verified on the IECEE Website "http://certificates.iecee.org" (1.29 / 0)</small>		