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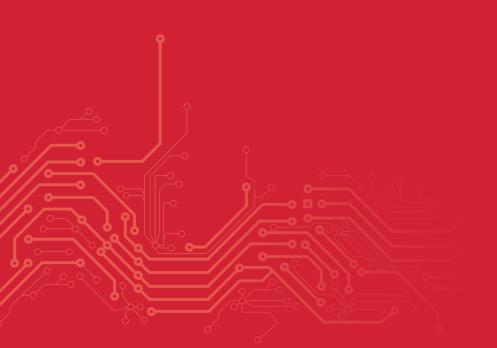
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COMPANY PROFILE

Suzhou FEITENG Electric Co.,LTD. was founded in 1994, is a Taiwan-owned FEITENG Electric Co., LTD. in the mainland to set up a low-voltage electrical business. The company is located in Suzhou, Wuxi, Changshu intersection - North Town, Suzhou is only three kilometers away from the beltway, geographic location.

After ten years of experience in the development, Suzhou FEITENG Electric has grown (dual power automatic transfer switch) is the largest one of the manufacturers of PC-class ATS. Company employees 150 people, including engineering staff of nearly 20 percent, more than 80 percent of college and higher education staff of the total engineering manpower, the factory area 11,250 square meters, which is the company's fast, robust, innovation and sustainable development a solid guarantee.

The company has long been engaged ATS dual power automatic transfer switch, ATS controllers, residual current monitoring system, fire detection, molded case circuit breakers, miniature circuit breakers, earth leakage circuit breakers and Circuit Breaker and other low-voltage electrical and electronic equipment development and production manufacturing, complete specifications, comprehensive product that can meet the needs of each user. The company now has injection workshop, stamping workshop, mold shop, spot welding workshop, electronics workshop and various product assembly workshop, advanced manufacturing equipment, including 20 sets of spot welding, punching, equipment, vehicles, milling metal processing equipment more than 30 Taiwan, as well as the electrical properties of test equipment, product life test equipment, measuring and testing equipment, product aging test chamber, and electrical properties laboratory.

We follow the "careful planning, strict control, the pursuit of a better, to provide customers with the desired products and services," the quality policy, the establishment of a sound quality assurance system, through the "ISO9001-2008" quality system certification, and has made Suzhou City "Consumer confidence enterprise" and Suzhou City Electric Industry Association, "executive director units," the glorious title. The company also established a nationwide sales and service network, and in good faith, the Three Guarantees products, commitment to the province two days in the province one day on-site service.

Suzhou FEITENG Electric Co., Ltd. Mr. Huang Zheyong staff welcome business colleagues at home and abroad to visit our company, study, business negotiations, let us hand in hand, a win-win for a better tomorrow!



Product Catalog DUAL POWER AUTOMATIC TRANSFER SWITCH

- W series dual power automatic transfer switch
- W2H series dual power automatic switch
- W2R series dual power automatic switch
- WNA series dual power automatic switch
- ■WNP series dual power automatic switch
- WNB series dual power automatic switch
- WST-5 Series of controllers
- WST-6 Series of controllers (Compact)
- WST-8 Series of controllers





Normal operating conditions and installation conditions

Products meet GB14048.II and IEC6O947-6-1 "low-voltage switchgear and control equipment - Part 6-1: multi-function electrical automatic transfer switching equipment).

1) ambient air temperature

The upper limit of not more than + 40 °C; lower limit of not less than -5 °C, 24h average does not exceed 35 °C.

2) elevation

The installation site altitude does not exceed 2000m.

3) atmospheric conditions

Air installation location relative humidity at the highest temperature + 40 °C when not more than 50%; at a lower temperature allows a higher relative humidity, the monthly average minimum temperature does not exceed the wettest month + 25 °C, the average maximum for the month relative humidity less than 90%, as a result of temperature changes on the surface of condensation situation must be taken.

4) Degree of pollution

Contamination class in accordance with 3 GB / T14048.1 regulations.

5) Installation category

Switch electrical installation category ${\rm III}$ class conform GB / T14048.1 prescribed switching controller comply with installation category ${\rm III}$ class GB / T14048.1 regulations.

6) Installation conditions

Electrical switches and switching controller can be mounted vertically or horizontally installed in a dedicated control cabinet or distribution cabinet.

7) Use category

Table 1

The main circuit	AC-33B(Infrequent operation)	Motor load or contain motors, resistive load and mixed load of 30% or less of incandescent loads
Auxiliary circuit and	AC-15	AC load control solenoid
turn control appliances	DC-13	Load control solenoid



8) The control circuit

Rated electrical switches and switching controller controls the supply voltage Us AC 220V / 230V / 50Hz, Proper working conditions is to control the supply voltage value should be \geq 85% Us, and \leq 110% Us.

9) auxiliary circuit

Auxiliary circuit with auxiliary contacts, of which the structure is electrically separable, four normally open, Four normally closed. Auxiliary contact ratings in Table 2.

Table 2

Rated thermal current	Rated insulation voltage	Rated operational current le (A)					
Ith(A)	Ui(V)	AC220V	DC200V				
10	300	3	0.2				

Auxiliary contact Abnormal making and breaking capacity in Table 3.

Table 3

Category	Connect				Sectio	n	Operating frequent rate and the number of cycles			
	I/Ie	U/Ue	cosΦ or T0.95	I/Ie	U/Ue	cosФ or T0.95	Cycles	Operating frequency Beats / min	Power-on time (s)	
AC-15	10	1.1	0.3	10	1.1	0.3	10	2	≥0.05	
DC-13 1.1 1.1 6Pe 1.1 1.1										
	Note: T0.95 ceiling ≈6Pe≤300ms. DC-13 power-on time when more than 0.05s T0.95 least TO.95.									

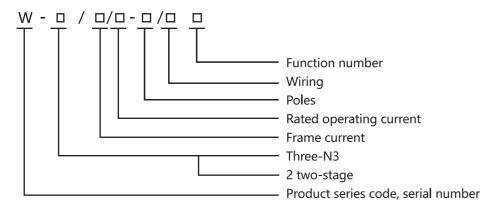
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Series DUAL POWER AUTOMATIC TRANSFER SWITCH



- ▶ W series dual power switching equipment belonging PC level, it points to W2 W-N3 two.
- ▶ W-2 for the two-stage automatic transfer switch, when the switch is connected to the switching signal does not stop in the middle of the open position immediately switched to the other power supply, current specifications for a 500A 20A from a power supply.
- ▶ W-N3 for the three-stage automatic transfer switch, the switch after receiving the converted signal can be immediately (or after a predetermined delay time) from a transducer connected to another power supply, you can pick from a power exchange to any intermediate position does not disconnect the power interlinked. 20A current specifications for a 5000A.

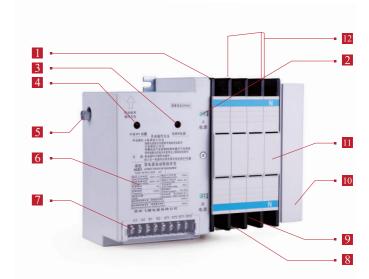
■ Product code and meaning





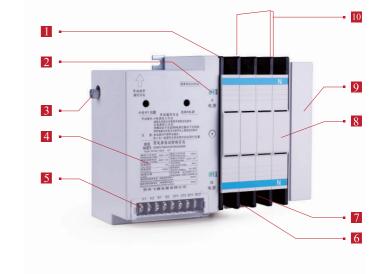
■ W-N3 three-stage automatic transfer switch (20-5000A)

- 1. A power supply side of the main circuit terminals
- 2. Power-off indicator window
- 3. Select button
- 4. Release button
- 5. Manually operated square shaft
- 6. Nameplate
- 7. Control power supply terminal
- 8. Load side of the main circuit terminals
- 9. B power supply side of the main circuit terminals
- 10. Auxiliary contact cover
- 11. Interrupter cover
- 12. Across the phase plate



■ W-2 two-stage automatic transfer switch (20-500A)

- 1. A power supply side of the main circuit terminals
- 2. Power-off indicator window
- 3. Manually operated square shaft
- 4. Nameplate
- 5. Control power supply terminal
- 6. Load side of the main circuit terminals
- 7. B power supply side of the main circuit terminals
- 8. Interrupter cover
- 9. Auxiliary contact cover
- 10. Across the phase plate



ATS switch Features

- ▶ Reliable mechanical interlock: a unique eccentric selection structure, to ensure that only one set of power supply, there could not be two sets of power while the access load.
- **Excellent arc performance:** a variety of abnormalities will be reliably extinguish the arc, arc duration is short, less contact loss.
- ▶ Multi-piece main arc contacts: contact surface contact area and increase the contact pressure, without overheating or contact welding, to extend the service life of the contacts.
- **Switching speed fast:** in between two common power supply and backup power conversion quickly with

3-4 / ADES PRODUCIS CAIALS

▶ ATS controller delay time can be set by the user to convert.

Smaller structure is simple: reliable, low failure rate, installation, use, easy maintenance, maintenance operations with the slow rotation of the handle, easy to find and troubleshooting, W Series ATS belong to PC level, the volume level is smaller than the CB, and current multi-level specification than CB.

OFF (OFF) position: W-N3-type three-stage switch can be energized to be able to convert from a short stay without any open position (OFF) power is turned on, the convenience to the user, W-2 type in this two-stage you can not open position (OFF) to stay.

Produ	ct Series	Rated operating current le (A)	Poles (P)	Wiring	Function number	
W-		20、40、63、 80 、100	2、3、4	F、B		
	63	20、40、63、				
	125	80、100、125				
	250	160、200、225、250				
Fra	500	350、400、500	2 : Two Level 3 : Three Level	F:The front plate Wiring	l Standard	
Frame degree current InmA	800	630、800	4 : Four Level	B:After the board Wiring	II Automatic type	
e current	1250	1000、1250				
t InmA	1600	1600				
	2500	1600、2000、2500				
	4000	3150、5000				
	5000	5000				

Note: 1) rated working voltage AC660V / 690V, and DC125V / 250V and control voltage AC100V, 110V, and DC110V, 125V and other voltage specification of switching equipment for special delivery. Shall specify when ordering.

2) 500A and below the front panel switch is generally wiring, 500A switch is generally above the rear panel wiring, in addition to special delivery.



■ W-2 stage switch parameters

	Model			W-2 AC800V									
	Insulation	n voltage						AC80)0V				
	Impulse witl	nstand voltage	8kV										
	Rated vol	tage	AC400V(AC660V/690V、DC125V/250V)										
	Frame curre	nt (A)		63			125			250			500
	Vote c	ount						Double	throw				
	Wiring							The fro	nt plate				
	Poles		2P	3P	4P	2P	3P	4P	2P	3P	4P	2P	3P
	Weight (k	4.5	5	5.5	5	6.3	6.8	6	6.6	7.3	11	15	
Operat	DC110	V/125V	6	6	8	6	6	8	6	8	10	10	10
ing cur	AC100\	V/110V	6	6	8	6	6	8	6	8	10	10	10
rent A)	Operating current (A) DC110V/125V AC100V/110V AC220V			3	4	3	3	4	3	4	5	5	5
	Short tin current	ne withstand	10kA 15kA 20kA								20kA		
		nditional short urrent (fuse er)	50kA 65kA										
Pe	hort-circ	nditional s uit current protection)			100	kA					120	kA	
Performance	Breaki	ng capacity	AC-33B(10leConnect.10leBreaking) cosΦ = 0.35 (le≤100A , cosΦ = 0.45) DC-33B (4leConnect.4leBreaking) L/R = 2.5ms										
	Conversion time A→B							≤0.	2s				
		B→A				El-	: 1 li£	(000	4: 41-		.:	£ 20,000	L:
		Lifetime	Electrical life of 6,000 times, the mechanical life of 20,000 times										
		cycle frequency	120 times / hour A, B power supply side are two normally open and two normally closed; switching										
	Auxiliary swi			, - po		capacity	AC: 110V	'5A / AC: 7	220V3A D	C: 200V0	.2A		
	Accessory							Oper	ating han	idle			

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■ W-N3-stage switch parameters

	Model									1-W	N 3						
ı	nsulat	ion vo l tage									AC80	00V					
lmp	ulse wi	ithstand voltage	8kV														
	Rate	d voltage									AC40)0V					
	Fram	ne current		63A			1254			250A	(500 <i>A</i>	١		800	Α
	Vote count									Do	uble	thro	w		•		
	٧	Viring						Τŀ	ne fro	ont p	late					fter the panel delive	for special
	Poles			3P	4P	2P	3P	4P	2P	3P	4P	2P	3P	4P	2P	3P	4P
	Weight (kg)			5.8	6.4	6	6.5	7.2	6	7.1	7.7	11	15	18	25	38	43
Opera	D	C110V/125V	6	6	8	6	6	8	6	8	10	10	10	14	12	12	12
ting cı	A	C100V/110V	6	6	8	6	6	8	6	8	10	10	10	14	12	12	12
Operating current €	;	AC200V/ 220V/230V	3	3	4	3	3	4	5	5	5	5	5	6	6	6	6
Trippir				2								3			4		
Tripping current (A	C100V/110V	2								3			4			
(A)		AC220V	1						1.4			2					
	Short t	ime withstand current	10kA				15kA 20kA			١	25kA						
	short	d conditional circuit current for protection)			100)kA				120kA				120kA			
P	short	d conditional -circuit current for Breaker)			50	kA					65	kA				50k	Α
Performa	Brea	aking capacity	AC	C-33I	B(10I										e≤100A R = 0.25		sΦ = 0.45)
rmance	Time Cor	A→B									≤0) c					
	ime Conversion	B→A									≥0.	2 5					
		Lifetime	Electrical life of 6,000 times, the mechanical life of 20,000 times Electrical life of 6,000 times, Mechanical life 10,000 times														
	Opera	ting cycle frequency	120 times / hour														
	Auxiliary switch				A, B are two normally open power supply; switching capacity AC: 110V5A / AC: 220V3A DC: 200V0.2A												
	Acc	essory							(Oper	ating	g har	ndle				

Note:



	W-N3														
	AC800V														
	8kA														
							AC40	00V							
1250A 1600A 2500A 3150A 4000A 5000A															
							Doub	le thro	W						
						(Fro	nt pan	he boa el for s _l ivery)							
2P	3P	4P	2P	3P	4P	2P	3P	4P	2P	3P	4P	3P	4P	3P	4P
37	46	55	36	54	68.6	95	115	135	110	124	140	207		265	
12	12	16	14	16	18	16	20	24	20	24	28	32	36	36	38
12	12	16	14	16	18	16	20	24	20	24	28	32	36	36	38
6	6 6 8 7 8 9 8 10 12 10 12 16 16 18 18 20										20				
		2	1							(5				
		4	1							(5				
		Ź	2							ã	2				
	32kA			40kA						50	κA				
							120	kA							
							501	κA							
	AC-33B(10leConnect/10leBreaking) cosΦ = 0.35 DC-33B(4leConnect.4leBreaking) L/R = 2.5ms														
	≤0.2s														
	Electrical life of 6,000 times, the mechanical life of 10,000 times														
							120 tii	mes / h	our						
А, В р	ower su	pply side	e are two	normal	ly open a	and two	normally	closed;	switchin	g capaci	ty AC: 11	10V5A /	AC: 220\	/3A DC: 2	200V0.2A
						(Operati	ng han	dle						

²⁾ the weight of the table for reference purposes only.

¹⁾ direct current (DC) case operation, AC circuit and configured substantially the same. Please go to follow the exchange operating instructions.

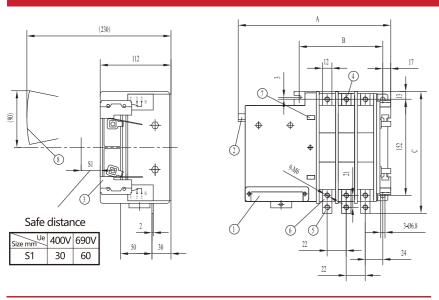
³⁾ short-time withstand current and operating current, the current value of the trip is for reference only.

^{4) 4000}A and 5000A4P product, N-pole contacts capacity are 2000A, 2500A.

■ Dimensions and mounting dimensions

1)W-N3 20~63A W-2 20~63A

Panel safe distance S1尺寸: 30mm(400V), 60mm(690V)

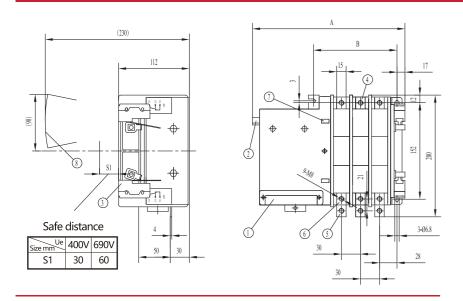


	W	-2	Table 4
	A	В	С
2P	182	88	
3P	204	110	193
4P	226	132	

	W	-N3	Table 5
	A	В	C
2P	202	88	
3P	224	110	196
4P	246	132	

Note: The drawings A, B, C size in Table 4, Table 5.

2) W-N 3 80~125A W-2 80~125A



	A	В
2P	218	103
3P	248	133
4P	278	163

Table 6

Note: The drawings A, B size Table 6.

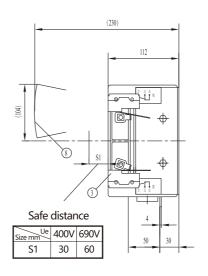
Description:

The sample size for each installation, dimensions may change, please check with the user to switch the physical size before installation and construction, I am afraid of the Company without notice.



3) W-N3 160~250A W-2 160~250A

Panel safe distance S1 Size: 30mm(400V),60mm(690V)



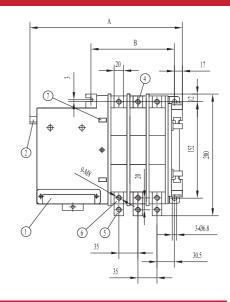


Table 7

A B

2P 228 113

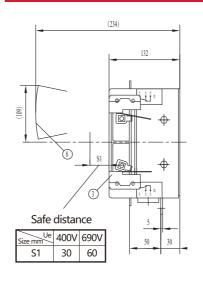
3P 263 148

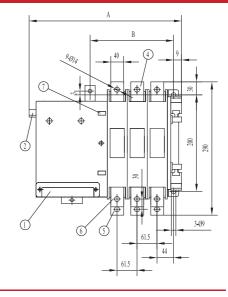
4P 298 183

Note: The drawings A, B size Table 7.

4) W-N3 350~500A W-2 350~500A

Panel safe distance S1 Size : 30mm(400V),60mm(690V)





A B

2P 287 167

3P 350 230

4P 410 290

Table 8

Note: The drawings A, B size Table 8.

- 1 The control circuit terminals 2 Square shaft manually 3 Auxiliary contacts 4 Common side of the main circuit terminals
- (5) Load side of the main circuit terminals (6) Alternate side of the main circuit terminals (7) ON / OFF indicator (8) Operating handle rotation range

5) W-N3 630~1600A

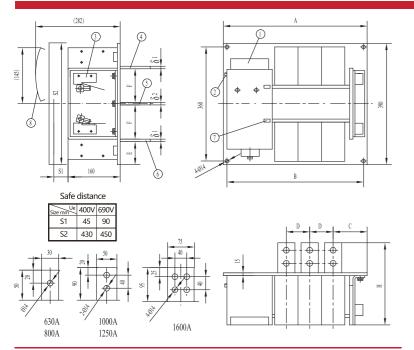
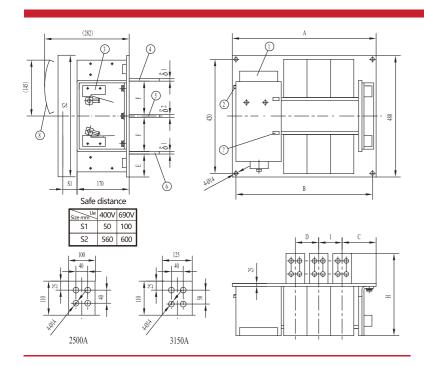


				Table 9
No	rm	630A 800A	1000A 1250A	1600A
	2P	340	370	410
A	3P	405	450	510
	4P	470	530	610
	2P	310	340	380
В	3P	375	420	480
	4P	440	500	580
(80	88	97.5
I)	65	80	100
]	E	60	60	57
F			117.5	
8	1	10/15	12/15	15
δ2			15	
H	Ŧ	210	250	255

Note: The drawing A-F, S1, S2 size Table 9.

6) W-N3 1600~3150A (3P)



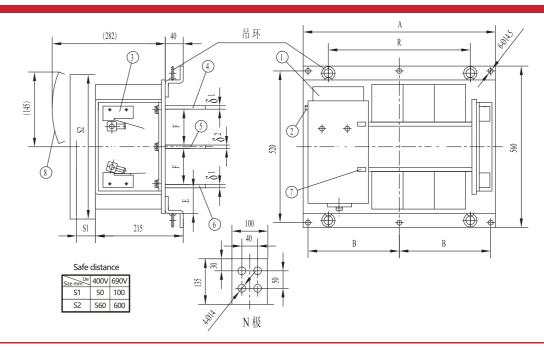
No	rm	1600A 2000A	2500A	3150 A (3P)		
Α	3P	680	680	915		
А	4P	845	850			
В	3P	595	595	860		
ъ	4P	790	790			
(130	130	135		
I)	145	145	220		
1	E	75	75	75		
]	F	116.5	114	114		
δ	1	15	2	0		
δ2		15	2	0		
I	Ŧ	305	305	335		
	I	160	160	220		

Table 10

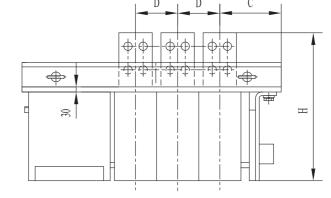
Note: The drawing A-F, H, I, S1, S2 size Table 10.

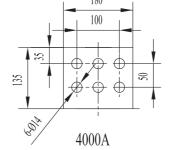


7) W-N3 3150A (4P)~5000A



Former 3150A (4P), 4000A and 5000A automatic transfer switch has been configured four lifting rings, the rings must be checked are tightened on the mounting rail switches before lifting, and check the carrying capacity of the rope should not be less than 500kg, formally lifting also: Notes hanging must try to determine the center of gravity position switch, to prevent gravity grasp allowed to cause rollover, slipping and other major accidents.





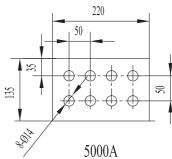


Table 11

No	rm	3150A	4000A	5000A
A	3P		915	1080
A	4P	1017	1040	1160
В	3P		430×2	500×2
ם	4P	478×2	470×2	520 × 2
(135	135	230
Ι)	240	230	270
I	3	75	75	88
]	7		114	
δ	1		20	
δ	2		20	
I	ξ	80	00	900
I	I	335	350	350
		·	·	

Note: The drawing A-F, S1, S2,R, H size Table 11.

■ Manually and precautions

The company's W-series switch in the electric operation to ensure its on-off capability, but due to the operation manual of human factors, there are differences in the switching speed can not be guaranteed. Because manual transfer switch load will cause the switching transition when the silver alloy contact damage, it is only in the manual operation of the operating mechanism, contact inspection, maintenance or electrically operated when a fault event.

Note: Before manual operation must cut off all power, manual operating handle end Always remove from the switch.

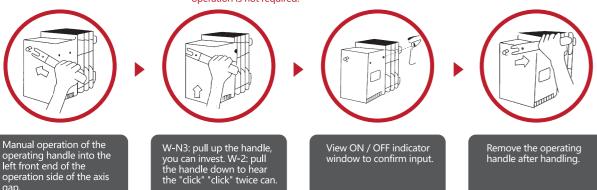
1) artificial escape method (only applies to W-N3-type, W-2 type conversion not only trip)



By removing the operating handle state to a screwdriver into the hole and to the left TRIP internal pressure to escape. (Requested by the ON / OFF switch indicator window to confirm whether the trip)

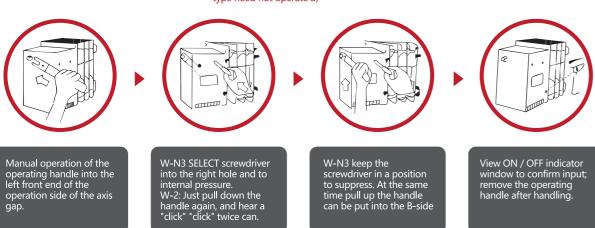
2) A supply-side input method

Note: W a need to operate an N3-type) can be carried out after the completion of a 2 and W-type operation is not required. "



3) B-side power input method

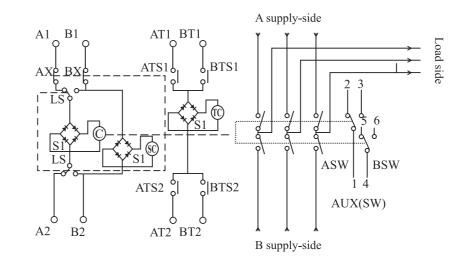
Note: W a need to operate an N3-type) can be carried out after the completion of, and W-2 type need not operate a)



Switch internal wiring diagram



1) W-N3-type internal wiring diagram (two power OFF state)



C = input coil

SC = Select coil

TC = trip coil

51 = Rectifier

LS = selector switch

terminals

BTS1, BTS2 = B power disconnect terminals

AX, BX = control switch

AUX = auxiliary switch

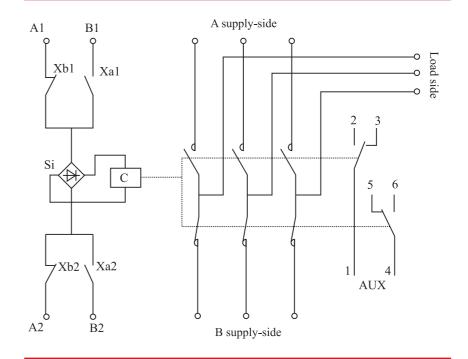
A1 A2 = A supply side an input terminal

A two B1 B2 B-side power input

AT1 a side trip AT2 = A power supply

BT1 a side trip BT2 = B power supply terminal

2) W-2 (two-stage) Internal wiring diagram



Xb1, Xb2: Internal control switch Xa1, Xa2: Internal control switch C: input coil Si: Rectifier

AUX: Auxiliary switch

A1-A2: A supply-side input terminal B1-B2: B-side input terminal of the power supply

Two separate contacts

There tripping device, there is absolutely neutral (OFF) position.

Therefore, the order of operations is as follows:

 $A \rightarrow OFF \rightarrow A$ and $B \rightarrow OFF \rightarrow B$ or

 $A \rightarrow OFF \rightarrow B$ and $B \rightarrow OFF \rightarrow A$



Security Design

Dust-proofResin guard, safe operation

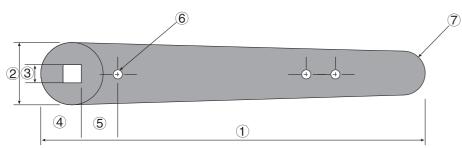


Interruption characteristic

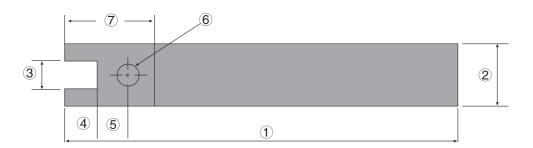
Depending on the operating voltage to produce a constant force spring

Operating handle

See the application and selection



	1	2	3	4	(5)	6	7	t
63A∽500A	210	34	10	22	20	Ф5(3)	Ф24	6(7)



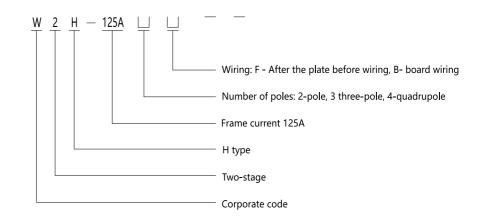
	1	2	3	4	(5)	6	7	t
600A~1600A	250	38(40)	16.1	20	15	Ф8	41	6(8)
2000A 3000A	320	50(52)	19.1	25	15	Ф8	50	9(11)
4000A 5000A	420	50(52)	19.1	25	15	Ф8	50	9(11)





W2H series dual power automatic transfer switch for AC 50Hz or 60Hz, rated working voltage up to 400V, rated current up to 250A of the emergency power supply system in W2H. Series automatic transfer switches from the switch body (TSE) and WST-5 (WST-6) controller. TSE compact body structure, conversion, reliable, long life, easy installation and maintenance, can also be manually electric, widely used in various occasions unsustainable power. And controller combination TSE body becomes an automatic transfer switch (ATSE) common power supply phase loss, overvoltage and undervoltage, according to the set delay time automatically load from the normal source for access to standby power, the controller further You can set automatic recovery or from a vote of no self-recovery program two operations.

■ Product code and meaning



■ Basic parameters

Model			W	'2H-12	5A				W2H-	-250A	
Rated operating current le	16	20	25	32	40		140	160	200	225	250
А	50	63	80	100	125		140	100	200	223	230
Rated insulation voltage Ui						AC 690	V , 50Hz				
Rated operating voltage Ue						AC 400	V , 50Hz				
level	Р	C leve	el: the	ability	to ac	cess and load	d, but not fo	or bre	aking s	hort-ci	rcuit current.
Use category	AC3	33iA T	ypical	use: Th	e tota	system load	containing o	age-t	ype mot	ors and	d resistive loads.
Poles	2P			3P		4P	2P		3	Р	4P
Weight (kg)	1.5			1.75		2.0	1.6		2.4	4	3.2
Rated making and breaking capacity					6.0	le , 1.05Ue ,	cosφ=0.50:	±0.05	, 50次		
Operating performance					2.0	le , 1.05Ue ,	cosφ=0.80:	±0.05	, 6000	欠	
Rated limit short-circuit current Iq						1001	kA				
SCPD (fuse)			RT.	16-00-	125A			RT16-1/250A			
Rated impulse withstand voltage						8	kV				
Control circuit	Rate	ed cor	ntrol su	ipply vo	ltage (Js: AC220V, 50	Hz. Proper w	orking	conditi	ons: 85	% Us ~ 110% Us
Auxiliary circuit	Two sep	arate tr	ip switch	n, each tri	p switch	contains two sets	of changeover c	ontacts.	Contact ca	apacity: A	C220V 50Hz, le = 16A
Contact conversion time	<1s										
Conversion action time	<1s										
Return to action time						<1	S				
Disconnect the power time						<1	00ms				



■ Dimensions and installation dimensions

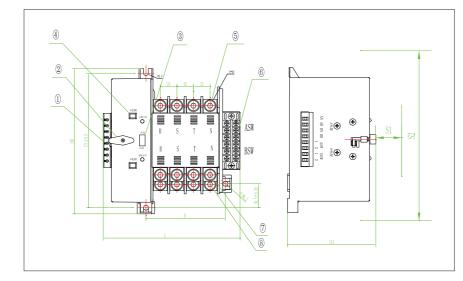


Table 2 W2H-125A relevant dimensions

Size Poles	A	В
2P	133	59
3P	154	80
4P	175	101

Safety distance S1:≥30mm S2:≥240mm

figure 1 W2H-125A Dimensions and installation dimensions

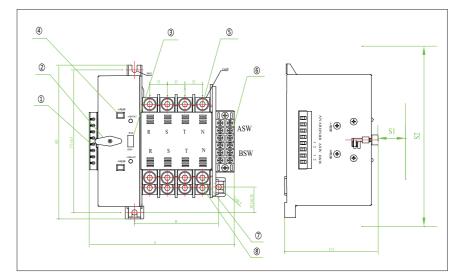


Table 3 W2H-250A relevant dimensions

Size Poles	A	В
3P	196	121
4P	231	156

Safety distance S1:≥30mm S2:≥290mm

figure 2 W2H-250A Dimensions and installation dimensions

- ① control circuit terminals A1, A2, B1, B2 (220V) ② manual handle ③ selector switch (manual / automatic)
- ④ ON / OFF indication ⑤ common power off the main circuit terminals ⑥ auxiliary contacts (ASW, BSW)
- ① standby power main circuit terminals ⑧ load side of the main circuit terminals

17-18 / AIJES PRODUCTS CATAL

■ W2H internal wiring diagram

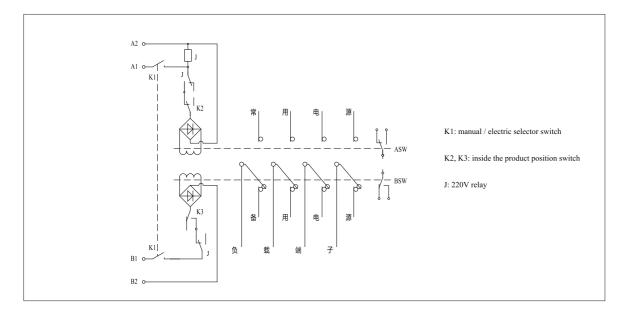


Figure 3 Internal wiring diagram

■ W2H unworthy controller wiring diagram

W2H unworthy controllers, switches can automatically switch and automatic recovery functions.

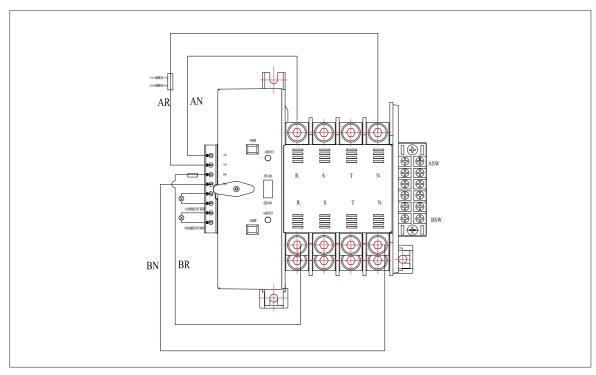


Figure 4 deserve controller wiring diagram

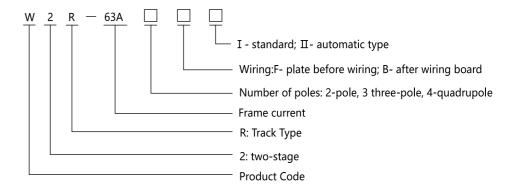






W2R series dual power automatic transfer switch for AC 50Hz or 60Hz, rated working voltage up to 63A of emergency power supply system. TSE compact body structure, conversion, reliable, long life, easy installation and maintenance, can also be manually electric, widely used in various occasions unsustainable power. TSE and controller combination body becomes an automatic transfer switch (ATSE). ATSE line with GB / T14048.11 voltage switchgear and control equipment, Part 6-1: Multiple function equipment - Transfer switching equipment.

■ Model and Classification



■ Basic parameters

Model		W2R-63A				
Rated operating current le A	16 20 25	16 20 25 32 40 50 63				
Rated insulation voltage Ui		AC 690V, 50Hz				
Rated operating voltage Ue		AC 400V, 50Hz				
level	PC level: the abi	lity to access and load, but not for br	eaking short-circuit current.			
Use category		AC-31B, AC-33iB				
Poles	2P	3P	4P			
Weight (kg)	1.7	2.1	2.6			
Rated making and breaking capacity		5.0Ie , 1.05Ue , cosφ=0.50±0.05 , 5	0次			
Operating performance	2	2.0Ie , 1.05Ue , cosφ=0.80±0.05 , 6	000次			
Rated limit short-circuit current Iq		50kA				
SCPD (fuse)		RT16-00-63A				
Rated impulse withstand voltage		8kV				
Control circuit	Rated control supply	voltage Us: AC220V, 50Hz. Proper work	ing conditions: 85% Us ~ 110% Us			
Auxiliary circuit	Two separate relays, each grou	up contains 2 passive changeover contacts. C	Contact capacity: AC220V 50Hz, Ie = 5A			
Contact conversion time		<1s				
Conversion action time	<1s					
Return to action time		< 1s				
Disconnect the power time		<1s				



■ Dimensions and installation dimensions

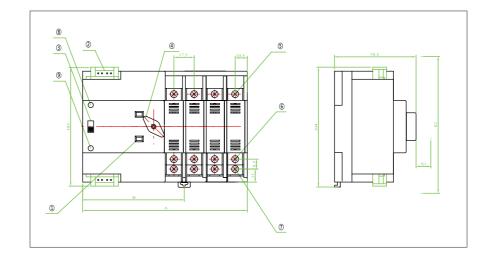


Table 2 W2R-63A relevant dimensions

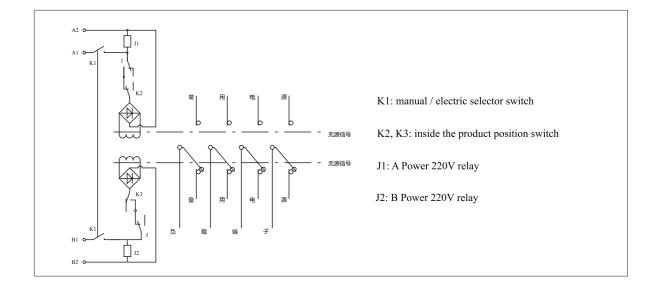
Size Poles	A	В
2P	107.5	72
3P	125	78
4P	142.5	88

Safety distance S1:≥30mm

S2:≥203mm

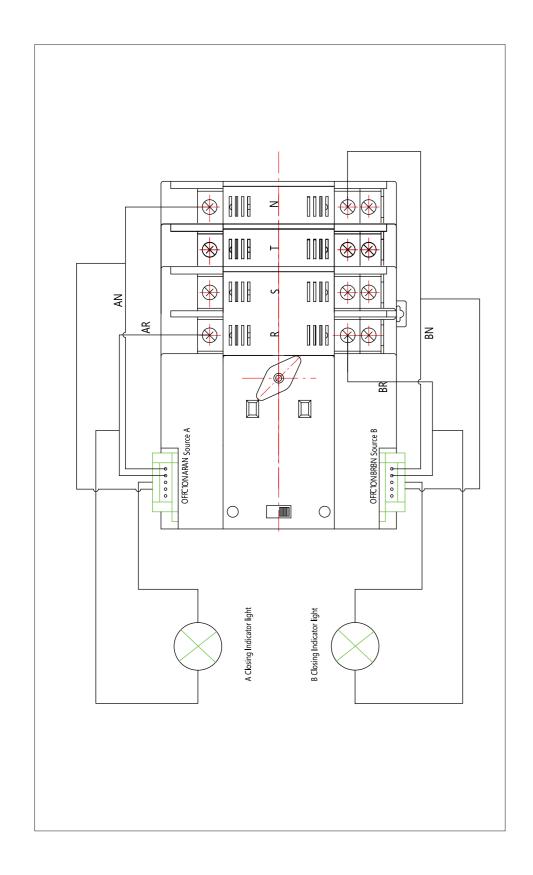
- ① ON / OFF control of the power-off instruction ② ④ selector switch (manual / automatic) ④ manual knob
- ⑤ common main circuit terminals ⑥ standby power main circuit terminals ⑦ load side of the main circuit terminals
- A power indicator
 B Power indicator

■ W2R internal wiring diagram



21-22/ AIJES PRODUCTS CA

■ W2R control Wiring diagram



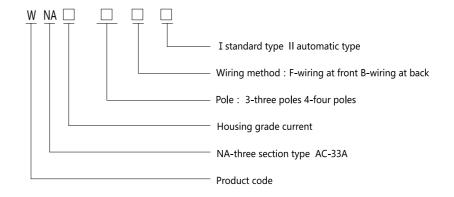






In order to satisfy AC-33A use category, WNA series dual-power automatic transfer switches adopt such designs as the structure of three contacts, separate movable and stationary contact(split type), and interlocked contact(to limit position) and so on. Each pole has independent making and breaking indication. Incoming and outgoing line are exchangeable. WNA series switches are applied to various important occasions of high reliability and security such as date centers, power plants, airports, hospitals, communications and petroleum sites. Used with the WST-5 and WST-6 controller, it is capable of multi-functional conditional transfer. Products of superimposed connected center line transfer function are its derivatives.

■ Product model and category



■ Basic parameters

Model	WNA 63A	WNA 125A	WNA 250A	WNA 400A	WNA 630A	WNA 5000A		
	16 20 25 32		140 160			800 1000 1250		
Rated operating curren le A	40 50 63	80 100 125	140 160 200 225 250	350 400	500 630	1600 2000 2500		
						3200 4000 5000		
Rated insulation voltage Ui			AC 800V,	50Hz				
Rated operating			AC 400V,	50Hz				
voltage Ue			AC 690V,	50Hz				
Grade	PC grad	de: able to make a	nd withstand,	not to break sh	nort-circuit	current		
Use category		AC-33A (AC 400V) 、 A	C-33iA (AC 690	0V)			
Pole			4P					
Rated making and breaking capacities		10le,1.05Ue,50times						
Operating performance			2.0le,1.05Ue	,6000times				
Rated conditional short-circuit current Iq			120k/	4				
Rated impulse withstand voltage			8kV					
Control circuit	rated co	ontrol source voltage Us	: AC220V, 50Hz,	correct working co	ndition : 85%	Ue~110%Ue		
Auxiliary circuit	Source A ar	nd B are both 2 normall	y open; switch o	apacity AC : 110V5	A/AC:220V3A	DC:200V0.2A		
Contact transfer time		<50ms						
Operating transfer time	<100ms							
Return transfer time	<100ms							
Power off time			<50m	s				



■ Switch Dimension

Current (A)	Pole	Length (mm)	Width (mm)	Depth (mm)
	2P	202	190	132
16-63	3P	224	190	132
	4P	246	190	132
00.400	2P	218	194	132
80 ,100, 125	3P	248	194	132
	4P	278	194	132
	2P	228	194	132
140-250	3P	263	194	132
	4P	298	194	132

Current (A)	Pole	Length (mm)	Width (mm)	Depth (mm)	
	2P	287	290	147	
350 ,400	3P	349	290	147	
	4P	410	290	147	
500 ,630	3P	405	390	210	
300,030	4P	470	390	210	
800-	3P	800	480	305	
5000	4P	970	480	305	

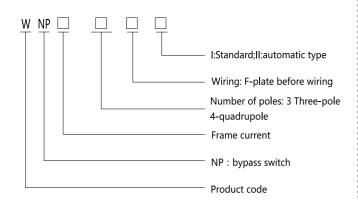
25-26 / AIJES PRODUCTS C

B Series DUAL POWER AUTOMATIC TRANSFER SWITCH



WNB is withdrawable switch power supply side with bypass can be made in the mains power supply status, the bypass switch is closed, power is maintained by the bypass switch. Withdrawable by mechanical means, the body is moved to the test position, or pulled out of the main body frame switch, repair or replace the main switch until after the completion of inspection, then put it back again within the framework of the body ,by the main power switch on, bypass switch off, and uninterruptible power production process to achieve maintenance, to ensure continuity of supply.

■ Product model and category



- 1.Dedicated PC Level: Professional integrated structure, electromagnetically driven, independent arc system.
- 2.Drawer structure: withdrawable design, maintenance, replacement convenient.

3. Bypass structure: In this in vitro increase in bypass switch, when the body needs to maintain, to get the correspond bypass switch on and then put out of the switch body so as not to affect the normal operation of the lower end of the load

4.Electromechanical Interlock: mechanical, electrical multiple interlock, rigorous logic to ensure the safe and reliable operation to prevent malfunction.

5.Isolation protection: bypass product frame equipped with an insulating spacer, the spacer automatically fall down after the body pull out, will live part isolation from the outside world to ensure that on-site personnel to operate safely.

6.Position signal: body, a bypass position signal indicate and sub-closing switch signal accurately display system status.



Basic parameters

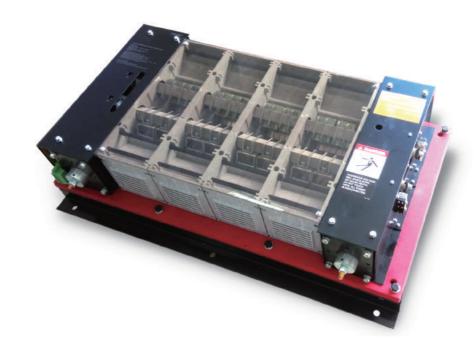
Model	WNB 250A	WNB 630A	WNB 2500A	WNB 4200A		
Rated operating current le A	16 20 25 32 40 50 63 80 100 125 140 160 200 225 250	350 400 500 630	800 1000 1250 1600 2000 2500	3200 4000 4200		
Rated insulation voltage Ui		AC 80	0V, 50Hz			
Ue Rated operating		AC 40	00V,50Hz			
voltage Ue		AC 69	00V,50Hz			
Level	PC level: the abili	ty to access and load	, but not for breaking	short-circuit curr		
Use category		AC-33A (AC 400V)	、 AC-33iA(AC 690V)		
Polest			4P			
Rated making and breaking capacity	6.0le , 1.05Ue , cosφ=0.50±0.05 , 50 times					
Operating performance		2.0le , 1.05Ue , coso	φ=0.80±0.05 , 6000 ti	mes		
Rated limit short -circuit current Iq		20	00kA			
Rated impulse withstand voltage		{	8kV			
Control circuit	Rated control supp	ly voltage Us: AC220V,50Hz	Proper working conditions:	85%Us ~ 110%Us		
Auxiliary circuit	Two limit switches, ea	ach group contains 2 chang	eover contacts. Contact cap	eacity: AC220V 50Hz ,		
Contact conversion time		</td <td>50ms</td> <td></td>	50ms			
Conversion action time	<100ms					
Return to action time	<100ms					
Disconnect the power time		</td <td>50ms</td> <td></td>	50ms			

Dimension

Model	4PLength (mm)	Width (mm)	Depth (mm)
WNB 250A	790	350	550
WNB 630A	890	550	550
WNB 2500A	950	810	600
WNB 4000A	1250	870	940

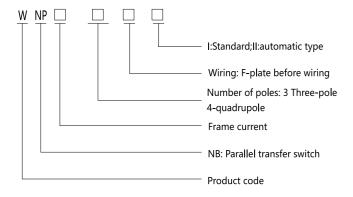
27-28 / AIJES PRODUCTS CATALO

Series DUAL POWER AUTOMATIC TRANSFER SWITCH



With the escalating electricity environment, some of the important electrical properties are not allowed to be de-energized. But the power system transformation, maintenance is inevitable. For such electricity environment we developed with phase Angle detection controller and parallel switch for the integration of digital, intelligent power distribution system solutions. Under certain conditions (as the voltage ,the same frequency and phase Angle), two power supplies can be instantaneous connected together so that the load uninterruptible power conversion of ATS.

■ Product model and category



- 1.phase detection technology, comprehensive monitoring of power supply situation;
- 2.Through the WST-8 controller and generator control module to adjust amplitude, frequency and phase Angle of generator power supply realize synchronization with common power supply.
- 3. When the common power supply is not interrupted, by adjusting the generator power to achieve synchronization and instantaneous parallel conversion, realize continuous electricity transformation.
- 4.Two independent power supply side of the body, can switch on or off (into unilateral, parallel conversion, parallel power supply) according to user needs
- 5.Mechanical interlock, reliable switching, double pole double throw, field-driven, fast conversion speed



Basic parameters

Model	WNCT 250A	WNCT 630A	WNCT 2500A	WNCT 4200A	
Rated operating current le A	16 20 25 32 40 50 63 80 100 125 140 160 200 225 250	350 400 500 630	800 1000 1250 1600 2000 2500	3200	
Rated insulation voltage Ui	AC 800V, 50Hz				
Ue Rated operating voltage Ue	AC 400V,50Hz				
Level	PC level: the ability to access and load, but not for breaking short-circuit curr				
Use category	AC-33A				
Polest	4P				
Rated making and breaking capacity	6.0le , 1.05Ue , cosφ=0.50±0.05 , 50 times				
Operating performance	2.0le , 1.05Ue , cosφ=0.80±0.05 , 6000 times				
Rated limit short -circuit current Iq	200kA				
Rated impulse withstand voltage	8kV				
Control circuit	Rated control supply voltage Us: AC220V,50Hz.Proper working conditions: 85%Us ~ 110%Us				
Auxiliary circuit	Two limit switches, each group contains 2 changeover contacts. Contact capacity: AC220V 50Hz ,				
Contact conversion time	<80ms				
Conversion action time	<200ms				
Return to action time	<200ms				
Disconnect the power time	<80ms				

Dimension

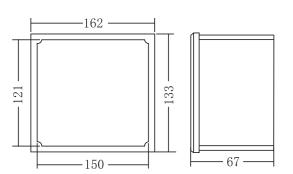
Model	4PLength (mm)	Width (mm)	Depth (mm)
WNCT 250A	380	197	150
WNCT 630A	530	330	170
WNCT 2500A	755	585	290
WNCT 4000A	950	585	290

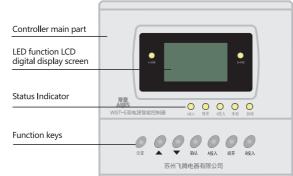
WST-5 Series Controller



WST-5 controller is our original WST-3 controller upgrade, powerful, high performance for a variety of dual power switch electrical appliances. It has programmable functions, automatic measurement, precision instruments LCD display with digital communications as one of the intelligent dual power switching module. It combines digital, intelligent, network-based on a measurement and control process automation, reduce human error, is ideal for dual power switching control products.

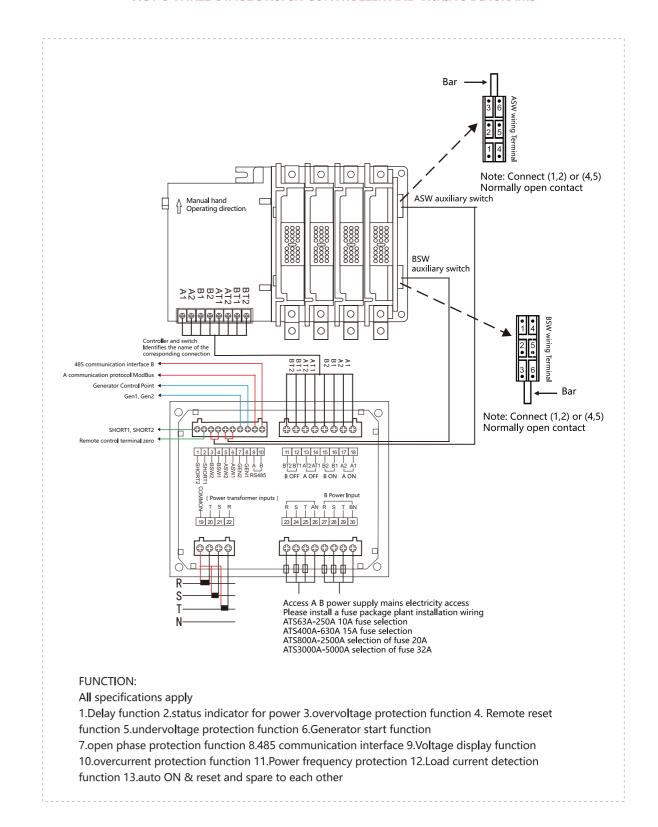
■ Controller Installation Dimensions







WST-5 THREE-STAGE SWITCH CONTROLLER AND WIRING DIAGRAMS



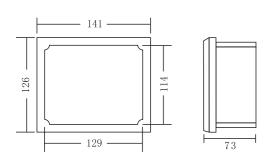
31-32 / AIJES PRODUCTS CATALOG

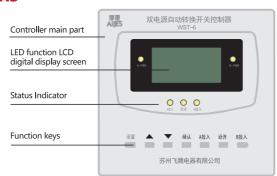
VST-6 Series Controller Simple type



WST-6 controller is my original company WN-2-3-JJ Controller (Simple) upgrade, intelligent control devices Simple and I produced the W-series automatic transfer switch (hereinafter referred to as switch) supporting the use of . Is an increasingly widespread use of innovative power conversion equipment. Issued based on the user setting mode to switch corresponding conversion work status command: is promptly switched from one power switch to the other way power; or start generators: or switch to another power source is not connected with any intermediate position to ensure supply continuity, reliability, security.

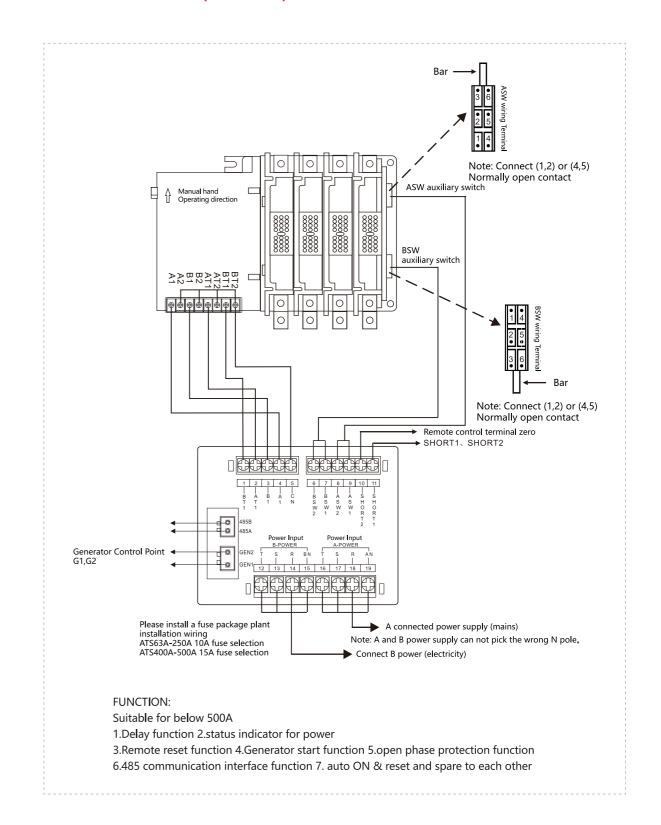
■ Controller Installation Dimensions







WST-6 CONTROLLER (SIMPLE TYPE) AND THE THREE-STAGE SWITCH WIRING DIAGRAM

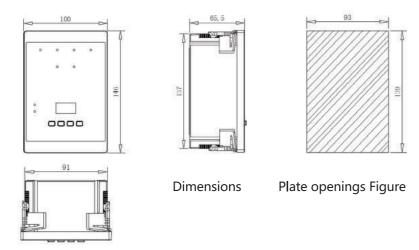


WST-8 Series Controller_

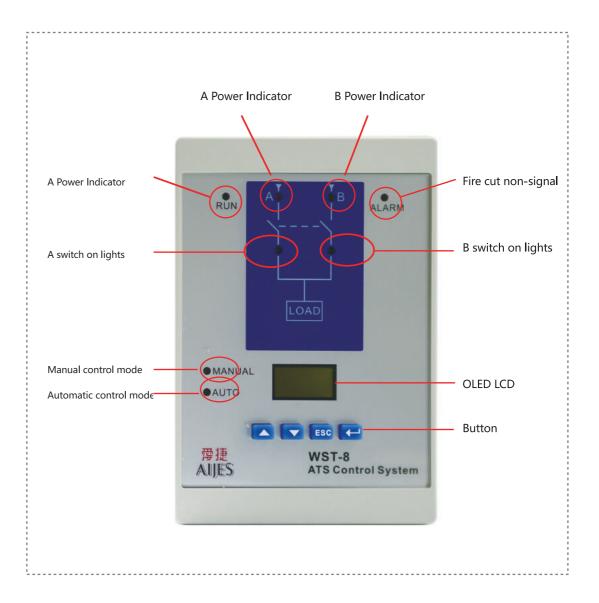


WST-8 is a versatile dual power supply controller, which not only has conventional current, voltage, frequency, phase, active, reactive and other electrical parameter measurement, dual power switching functions, while the generator can be used to prepare and cast from the same period detection complex function, to ensure that important load continuous, reliable operation.

■ Dimensions and hole diagram







Features

- 1, delay function 2. Power indicator 3, 4 overvoltage protection, remote zero function
- 5, undervoltage protection function 6, 7 function generator start, missing items 8,485 protection function communication interface 9, voltage display 10, since the complex overcurrent protection 11, power frequency protection function 12, 13 power parameter measurement function, automatic recovery and backup each other 14, the prosecution function 15-year investment and prepare, check synchronization function 16, SOE recording function 17, the device self-test function

Memorandum