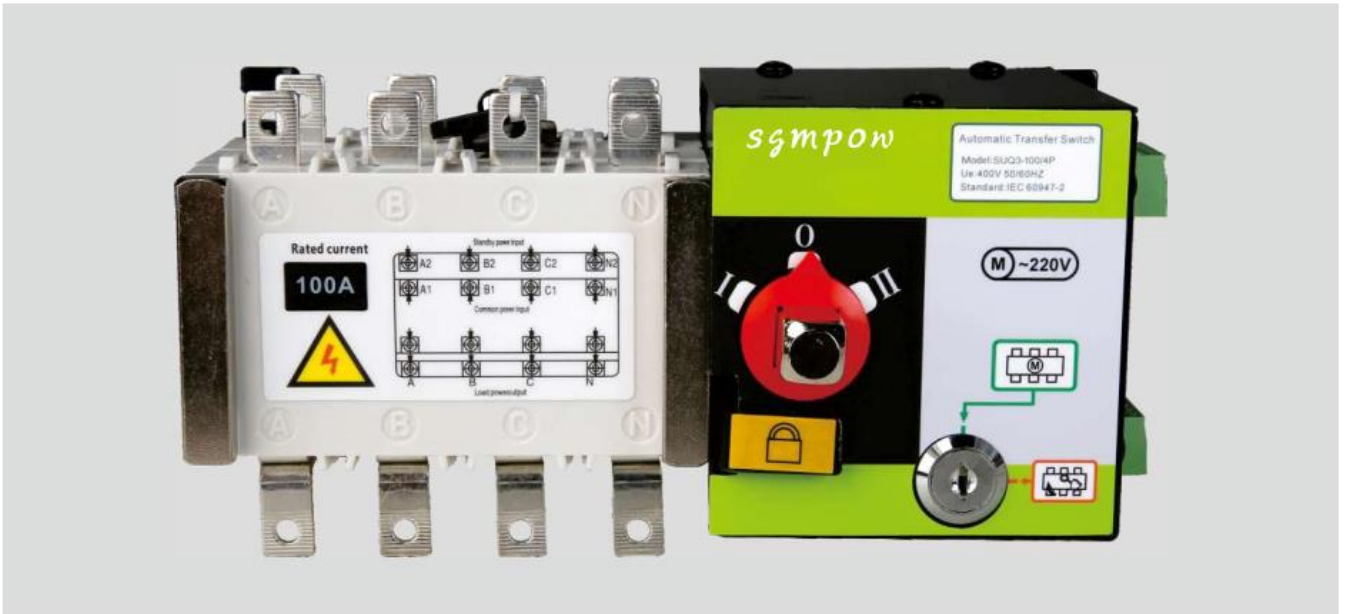


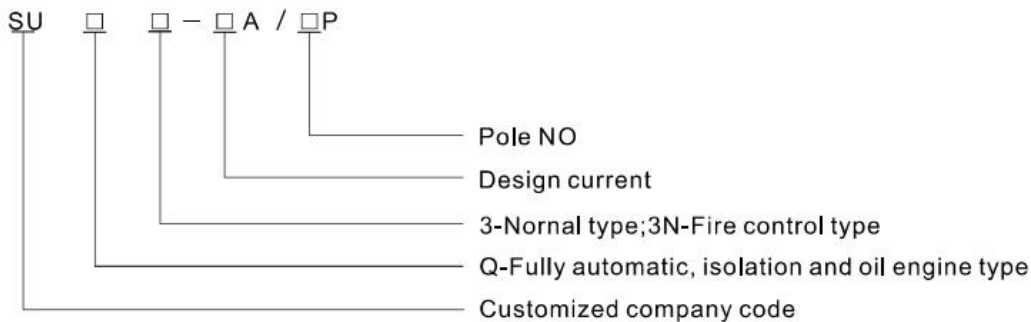
# SUQ3 PC Class Dual Power Automatic Transfer Switch (ATS)



## Application

SUQ3 PC Class (ATSE), it gathers switch and logic control in one device to achieve the mechanical and electrical integration, with voltage detection, frequency detection, electrical and mechanical interlock etc. It can achieve automatic control, electric remote control and emergency manual control. The operation is done by using the logic control board and logic commands to manage the operation of synchronous electromechanical operation, synchronous electromechanical drive the switch spring to store energy, and instantaneous released acceleration mechanism will turn on sub-section power or circuit conversion fast. Through a clearly visible status to achieve safe isolation, it will greatly improve the electrical performance and mechanical properties. The switch is designed to use a metal shell to make it firm. Control part is metal shell, and the switch shell components are made of glass fiber unsaturated polyester resin to bring a strong dielectric function, protection function and reliable operation security.

## Model No. & Meaning



# SUQ3 PC Class Dual Power Automatic Transfer Switch (ATS)

## Working Conditions

- Ambient temperature: -5°C ~ +40°C, and the daily average temperature shall not exceed +35°C.
- Atmospheric condition: relative humidity shall not exceed 50% at the ambient temperature of +40°C, a higher humidity is allowable at a lower temperature, the average maximum relative humidity is 90% in the wettest month at a monthly average minimum temperature of +25°C, and special measures shall be taken for the condensation on surface of product due to temperature change.
- Installation altitude: ≤ 2000m.
- Pollution class: class III

## Main Technical Specifications:

- SUQ3 Series ATS 100 ~ 3200A Electrical and Mechanical Performance

Agreed thermal current (I <sub>th</sub> )	100A				250A				630A	1000A	1600A	2000A	2500A	3200A						
Rated current I <sub>n</sub> (A)	16	20	40	63	80	100	125	160	200	250	400	630	800	1000	1250	1600	2000	2500	3200	
Rated insulation voltage U <sub>i</sub> (V)	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	1000	1000	1000	
Dielectric strength (V)	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	10000	10000	10000	10000	10000	10000	10000	
Rated impulse withstand voltage U <sub>imp</sub> KV	8	8	8	8	8	8	8	8	8	8	12	12	12	12	12	12	12	12	12	
Rated work current I <sub>e</sub> (A) AC-33iB	16	20	40	63	80	100	125	160	200	250	400	630	800	1000	1250	1600	2000	2500	3200	
Rated short-time withstand current I <sub>cw</sub> (Ka Rms)0.1S/1S	9/5	9/5	9/5	9/5	9/5	9/5	12/25	12/25	12/25	12/25	40/20	50/25	90/50	90/50	90/50	90/50	50	50	55	
Rated breaking capacity (A Rms) AC-33 iB 380V	128	160	320	500	640	800	1000	1280	1600	2000	3200	5000	6400	8000	10000	12800	16000	20000	25600	
Rated connecting capacity (A Rms) AC-33 iB 380V	160	200	400	630	800	1000	1250	1600	2000	2500	4000	6300	8000	10000	12500	16000	20000	25000	32000	
I-0-IIorII -0-I(S)	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	
Transferring time																				
I-0orII -0(S)	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	
Weight (kg)	3 Poles	4.15	4.15	4.25	4.35	4.45	4.45	8.2	8.2	10.4	10.4	17.8	19	28	31	31	34	-	-	-
	4 Poles	4.2	4.2	4.3	4.4	4.5	4.5	8.7	8.7	11.3	11.3	20.2	22	32	36	36	40	95	98	135

Usage Category

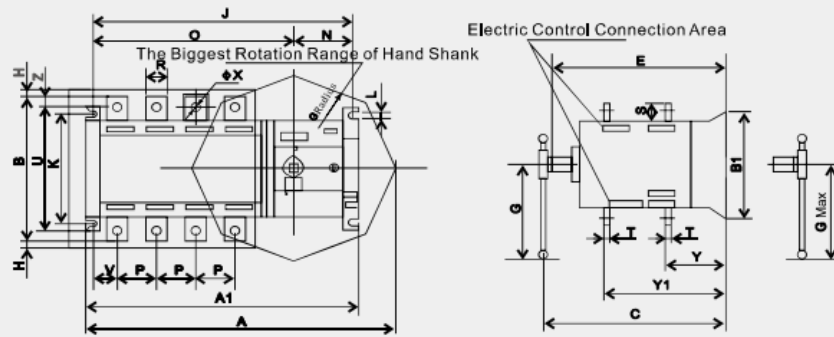
AC-33iB ( PC class级 )



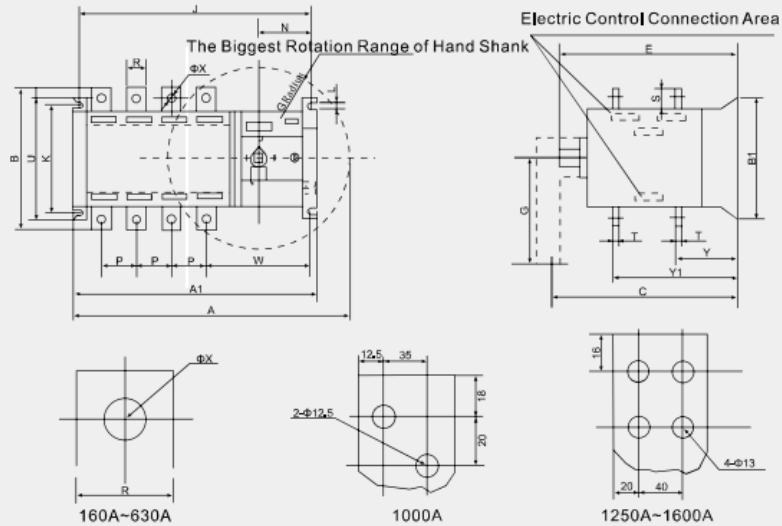
# SUQ3 PC Class Dual Power Automatic Transfer Switch (ATS)

## Outline, Installation Size & Wiring Diagram

Outline & Installation Size(16~100A)



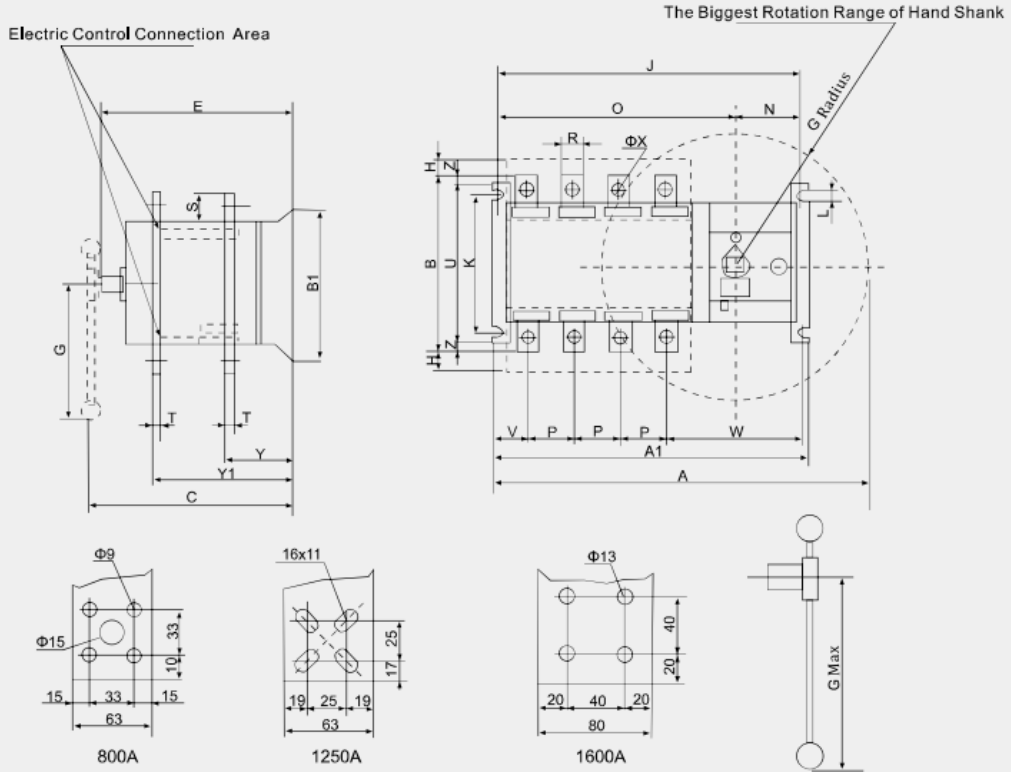
Outline & Installation Size (160~630A)



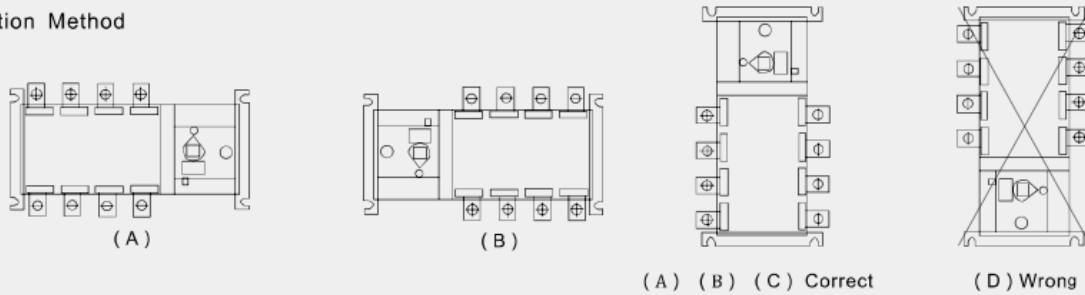
# SUQ3 PC Class Dual Power Automatic Transfer Switch (ATS)

## Outline, Installation Size & Wiring Diagram

### Outline & Installation Size(800~1600A)



### Installation Method



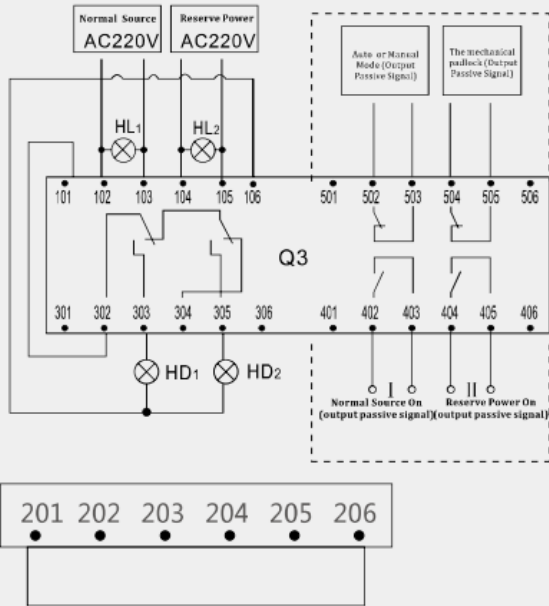
Amper	Overall Size											Installation Size										Size of Terminal					
	A	A1	B	B1	C	E	G	H	J	K	L	N	O	P	R	S	T	U	V	$\psi$ X	Y	Y1	Z				
100A	280	244	107	103	150	140	115	19	226	84	7	83.5	142.5	30	14	18	2.5	103	13	6	41.5	93	2				
160A	360	303	135	142	218	191	143	30	285	103	7	92	193	36	20	25	3.5	140	36	9	56	128	4				
250A	420	362	170	142	245	211	143	30	349	103	7	92	275	50	20	30	3.5	140	50	11	65	145	9				
400A	590	430	234	222	286	275	245	20	425	179	9	97	328	65	32	37	5	222	38	11	83	193	6				
630A	590	430	250	222	286	275	245	20	425	179	9	97	328	65	40	45	6	222	38	11	83.5	193.5	14				
800A	1080	634	328	250	351	340	540	20	617	220	11	88	529	120	60	64	8	250	59	13	109	254	39				
1000A	1080	634	336	250	351	340	540	20	617	220	11	88	529	120	60	64	8	250	59	13	109	254	39				
1250A	1080	634	336	250	351	340	540	20	617	220	11	88	529	120	80	68	8	250	59	13	109	254	43				
1600A	1080	634	336	250	351	340	540	20	617	220	11	88	529	120	80	68	10	250	59	13	110	255	43				



# SUQ3 PC Class Dual Power Automatic Transfer Switch (ATS)

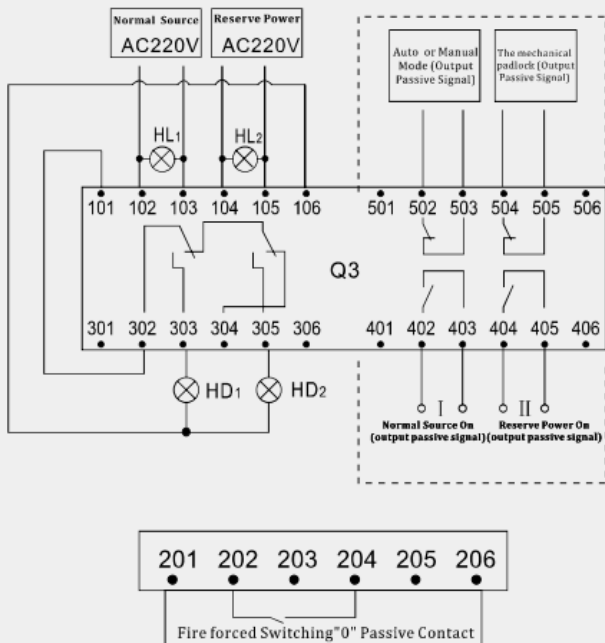
## Outline, Installation Size & Wiring Diagram

### 1. Automatic Wiring Diagram



- HL1 Normal source side has electricity (For indicator) ;  
HL2 Reserve power side has electricity (For indicator)
- HD1 Normal source On (indicator) ;  
HD2 Reserve power On (indicator)
- 101 ~ 106, 201 ~ 206, 301 ~ 306 are terminals
- 401 ~ 406, 501 ~ 506 are the terminals could be added extraly, and they are the output passive signal for different status.

### 2. Automatic+Forced Switching"0"(Dual Power both disconnected)Wiring Diagram



- HL1 Normal source side has electricity (For indicator) ;  
HL2 Reserve power side has electricity (For indicator)
- Hd1 Normal source On (indicator) ;  
Hd2 Reserve power On (indicator)
- 101 ~ 106, 201 ~ 206, 301 ~ 306 are terminals
- 401 ~ 406, 501 ~ 506 are the terminals could be added extraly, and they are the output passive signal for different status.