



Honorable customers,

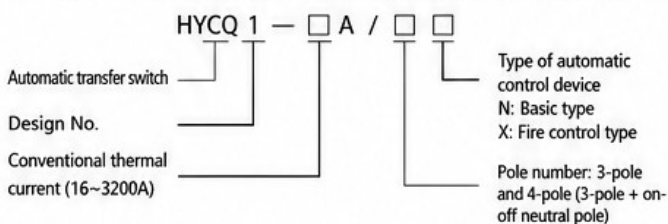
Thank you for choosing the HYCQ1-16~3200A series automatic transfer switching equipment (hereinafter referred to as ATSE) produced by our company, for your safety and correct use of this product, please read this manual carefully before installation, circuit wiring, running and maintenance inspection.

Notice:

The installation, operation, using and maintenance of the equipment must be carried out by qualified professionals. The company will not be responsible for any bad consequence caused by operations not according to the operating manual.

I. MODEL DESCRIPTION

HYCQ1-16~3200A Series Double power Automatic Transfer Switch



II. MAIN TECHNICAL PARAMETERS

In conformity with IEC 60947-6-1/GB/T14048.11-2008

Conventional thermal current (A)	200A	400A	630A	800A	1000A	1250A	1600A	2000A	2500A	2500A	3200A							
Rated insulation voltage Ui	690V						690V											
Rated impulse withstand voltage Uimp	8KV						12KV											
Rated operating voltage Ue	AC380V																	
Rated operating current Ie (AC-33B)	20	40	63	80	100	150	315	400	1000	1250	1600	2000	2500	3200				
Rated short-time withstand current Icw	7kA		5kA		10kA		20kA		26kA		50kA		55kA					
Transfer time	≤5S																	
Control supply voltage	AC220V																	
Energy consumption of motor																		
Weight(kg)	7.0	7.7	7.7	17	7.7	7.5	7.5	8.5	9	16.5	17	32	36	40	49	95	98	135

HYCQ1-16~3200A AUTOMATIC TRANSFER SWITCH

Notice: non-our-company authorized personnel please don't disassemble or assemble our products, to avoid unexpected equipment or personal injury.

I. APPLICATIONS AND OPERATING ENVIRONMENT

HYCQ1-16~3200A automatic transfer switch (hereinafter referred to as switch) is applicable for system of AC 50Hz, AC rated voltage up to 380V, rated current 16~3200A, to transfer between two power supplies in emergency power supply system, it will stop the power supply to loads in the course of transferring.

The switch can work reliably under the following conditions:

- Altitude not exceeds 2000m;
- Ambient temperature within $-5^{\circ}C \sim +40^{\circ}C$;
- Relative air humidity not exceeds 95%;
- The installation site should be free of explosive medium, and be free of gas or dust that would erode the metal or destroy the insulation;
- No obvious shock, impact or vibration
- No rain or snow attack;

Note: if the intended environment temperature is beyond $+45^{\circ}C$ or in the range $-5^{\circ}C \sim -45^{\circ}C$, user should give clear indication of the condition.

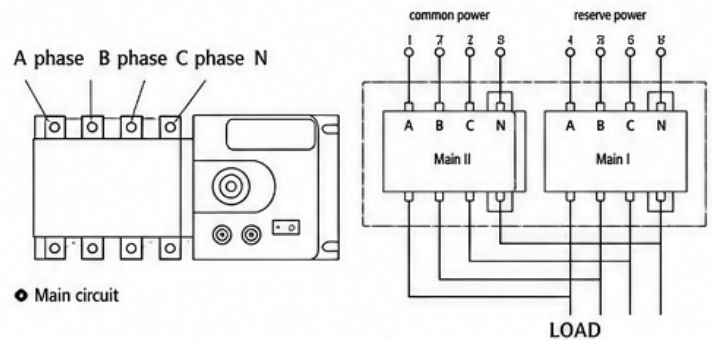
II. STRUCTURE AND FEATURES

1. Structure

The switch is composed of the main body with enclosure made of glass fiber unsaturated polyester resin, micro motor, multi-stage speed reducer, SCM control device, etc.

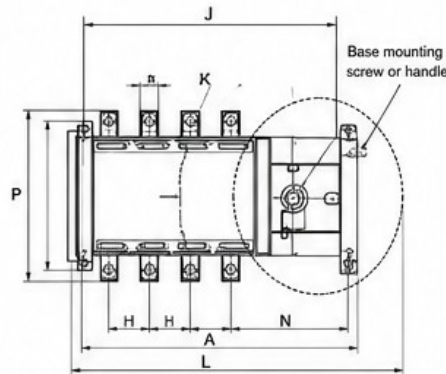
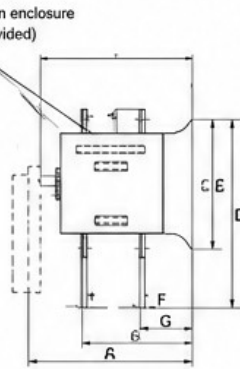
III. HYCQ1-16A~3200A METHOD OF APPLICATION

1. Main body connection mode (special attention to the sequence of connection)



IV. HYCQ1-125~3200A Outline and installation dimensions

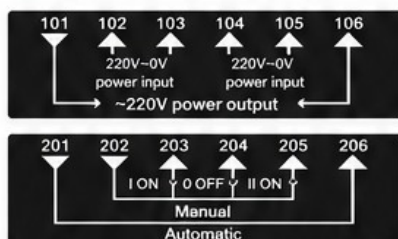
Insulation enclosure
(not provided)



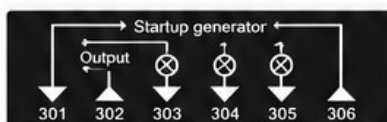
- A Overall width
- B Mounting center width
- C External width
- D Overall height
- E Mounting center height
- F Terminal height
- G Overall depth
- H Mounting center length
- J Total length
- K Pole spacing
- L Overall length
- N Total length of mounting screw or handle
- P Overall height of operating mechanism

Specs	A	A1	B	B1	C	E	G	H	J	K	L	N	O	P	R	S	T	U	V	W	ΦX	Y	Y1	Y2	Y3	
125A/3	377	288.5	135	-	268	204.5	191	267.5	78/108	7	102.5		36	20	25	3.5	134	-	161.5	9	57	139	-	-	-	
125A/4	407	318.5	135	-	268	204.5	191	297.5	78/108	7	102.5		36	20	25	3.5	134	33.5	155.5	9	57	143	-	-	-	
160A/3	377	288.5	135	-	268	204.5	191	267.5	78/108	7	102.5		36	20	25	3.5	134	-	161.5	9	57	139	-	-	-	
160A/4	407	318.5	135	-	268	204.5	191	297.5	78/108	7	102.5		36	20	25	3.5	134	33.5	155.5	9	57	143	-	-	-	
200A/3	417	328.5	170	-	268	204.5	191	307.5	78/108	7	102.5		50	25	30	3.5	134	40	155.5	11	60	145	-	-	-	
200A/4	467	378.5	170	-	268	204.5	191	337.5	78/108	7	102.5		50	25	30	3.5	134	40	155.5	11	60	145	-	-	-	
250A/3	417	328.5	170	-	268	204.5	191	307.5	78/108	7	102.5		50	25	30	3.5	134	31	155.5	11	60	145	-	-	-	
250A/4	467	378.5	170	-	268	204.5	191	337.5	78/108	7	102.5		50	25	30	3.5	134	31	155.5	11	60	145	-	-	-	
400A/3	453	384.5	240	-	329.5	265	191	363.5	180	11	122.5		65	32	40	5	208	31	197	11	83	197	-	-	-	
400A/4	513	444.5	240	-	329.5	265	191	423.5	180	11	122.5		65	32	40	5	208	31	197	11	83	197	-	-	-	
630A/3	453	384.5	260	-	329.5	265	191	363.5	180	11	122.5		65	40	50	5	208	31	197	11	83.3	197.5	-	-	-	
630A/4	513	444.5	260	-	329.5	265	191	423.5	180	11	122.5		65	40	50	5	208	31	197	11	83.3	197.5	-	-	-	
800A/4	1007	633	330	250	370	321	470	65	609	220	11		85	524	120	80	65	8	60.5	188.5	107	249	-	-	-	
1000A/4	1007	633	330	250	370	321	470	65	609	220	11		85	524	120	80	65	8	60.5	188.5	107	249	-	-	-	
1250A/4	1007	633	330	250	370	321	470	65	609	220	11		85	524	120	80	65	8	60.5	188.5	107	249	-	-	-	
1600A/4	1007	633	330	250	370	321	470	65	609	220	11		85	524	120	80	65	8	60.5	188.5	111	253	-	-	-	
2000A	1007	633	455	-	562	-	470	33	467	-	-		524	80	80	10	15	33	-	-	147	84	147	-	-	-
2500A	1007	633	455	-	562	-	470	28	467	-	-		524	120	100	15	13	-	-	-	152	79	152	-	-	-
3200A	1007	633	505	-	562	-	470	28	467	-	-		524	120	100	15	13	-	-	-	152	79	152	-	-	-

HYCQ1 Series Fire Control Type Wiring Method For 16A-3200A



Note: 202-205 need to be controlled from remote or external, then 201 must be disconnected with 206.
 201 disconnect with 206,
 ATS is manual remote control and 201 connect with 206,
 ATS is automatic control.
 202 and 203 connected, ATS switch to I and I Closing.
 202 and 204 connected, ATS switch to O, Off from I and II.
 202 and 205 connected, ATS switch to II and II Closing.



301 connect with 306, start generator ;
 302 connect with 303 ,Closing indication for Normal Power ;
 302 connect with 304 ,Disconnection from Normal power and Reserve power ;
 302 connect with 305,Closing indication for Reserve Power

VI. Operation and maintenance

1. Place the selection key in automatic position, it realizes remote electric operation and automatic operation control, operates three status positions, switch **I** closes, switch **O** opens; switch **II** closes, switch **I** opens; all open.

2. Place the selection key in automatic position, then the switch is in automatic operating mode, the automatic control operation can be divided into three control types: I, II, III.

Users please provide the following information:

- Product name, model, specification and quantity.
- If the product is intended for special installation condition or special locations, please provide corresponding technical data or settle the problem through friendly negotiation.