HYCQ1 Automatic Transfer Switches

Product features

- Installation performance is good.
- Using double-row composite contacts, horizontal pull mechanism, permanent magnet synchronous motor pre-storage and microelectronic control technology, it basically achieves zero arcing (without arc extinguishing cover).
- Adopt reliable mechanical interlock and electrical interlock.
- Using zero-crossing technology, it can be forced to zero in an emergency (cut off two power supplies at the same time), with obvious on-off indication, padlock and other functions, and reliably realize the isolation between the power supply and the load.
- High reliability, with a service life of more than 8,000 times.
- Integrated design, switch conversion is accurate, flexible and smooth.
- Good electromagnetic compatibility, strong anti-interference ability, no external interference.
- High degree of automation.
- The switch has multiple input/output interfaces, which is convenient for remote PLC control and system automation.
- Switch work without any external control components.
- Beautiful appearance, small size and light weight, the logic control board manages the motor directly installed in the switch with different logic, and the operation of the gearbox ensures the switch position.

Models description

HYC Q 1 - □ / □

- Pole code:4P
- Rated operating current (A)
- Design serial code
- ATS drive code
- Enterprise code

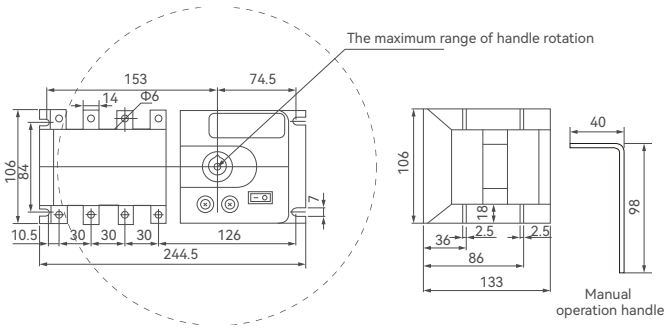
Conditions of Use

- Ambient air temperature: -25℃ ~ +55℃ .
- The altitude of the installation site shall not exceed 2000m.
- The pollution level is 3.
- The installation category is Class III.
- The main circuit usage categories are AC31B, AC33B, AC35B, AC33iB, and AC-33iB.
- Installation conditions: The switch body can be installed vertically or horizontally.

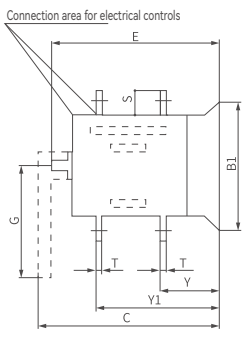
The main technical parameters

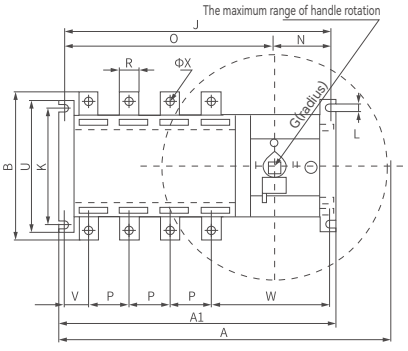
Conventional heating current Ith		20A	40A	63A	80A	100A	125A	160A	250A	400A	630A	800A	1000A	1250A	1600A	2000A	2500A	3200A
Rated insulation voltage Ui		800V								800V								
Rated impulse withstand voltage Uimp		8kV								12kV								
Rated working voltage Ue		AC400V																
Rated working current Ie	AC-66A	20	40	63	80	100	125	160	250	400	630	800	1000	1250	1600	2000	2500	3200
Rated short - time withstand current Ie		7kV					5kA		10kA	20kA		26kA		50kV		55kA		
Conversion time		≤ 5S																
Control supply voltage		AC220V																
Weight (kg)		7.0/3.5	7.2/3.5	7.2/3.5	7.2/3.5	7.5	7.5	8.8	9	16.5	17	32	36	40	49	95	98	125

HYCQ1-100 Outline Installation dimensions



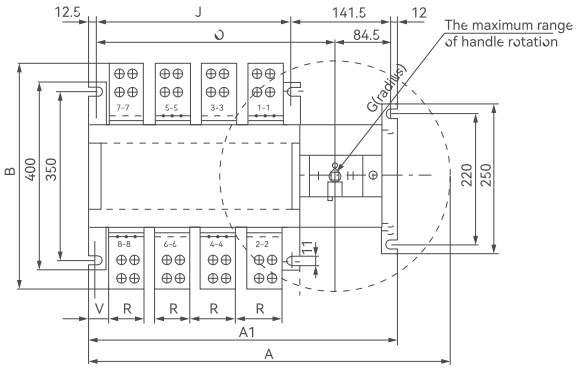
HYCQ1 -125~1600 Outline Installation dimensions

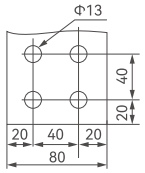




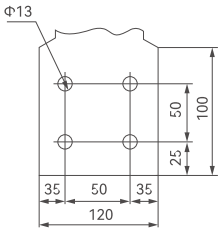
Specification	A	A1	B	B1	C	E	G	J	K	L	N	O	P	R	S	T	U	V	W	ΦX	Y	Y1	K1
160A/4	358	320	150	134	190	157	144	305	78/108	7	100	211	36	20	25	3.5	134	33.5	160	9	58	122	80/50
250A/4	422	381	186	134	210	180	144	365	78/108	7	98	270	50	25	30	3.5	134	47	164	11	61	144	80/50
400A/4	520	445	240	208	333	266	192	422	176	11	113.5	315	65	32	40	5	208	31	193	11	83	193	
630A/4	520	445	260	208	333	266	192	422	176	11	113.5	315	65	40	50	6	208	31	193	13	84	194	
800A/4	1007	633	340	250	370	321	470	609	220	11	85	524	120	80	70	8	220	60.5	188.5	13	110	258	
1000A/4	1007	633	340	250	370	321	470	609	220	11	85	524	120	80	70	8	220	60.5	188.5	13	110	258	
1250A/4	1007	633	340	250	370	321	470	609	200	11	85	524	120	80	70	8	220	60.5	188.5	13	110	258	
1600A/4	1007	633	340	250	370	321	470	609	200	11	85	524	120	80	80	12	220	60.5	188.5	13	114	262	

HYCQ1-2000A~3200A Outline Installation dimensions

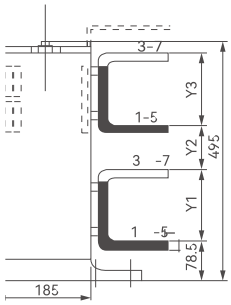


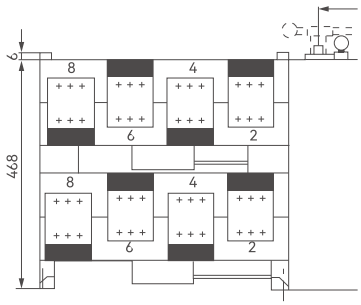


2000A



2500A~3200A

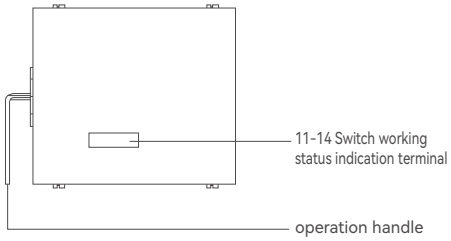


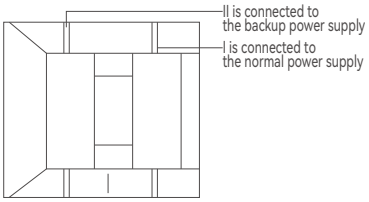


	Overall size							switch installation					Terminals										
Specification	A	A1	B	C	E	G	H	J	K	L	N	O	P	R	S	T	U	V	W	X	Y1	Y2	Y3
2000A	1007	633	455	556		470		467				524		80	80	15		33			147	84	147
2500A	1007	633	455	556		470		467				524		120	112	15		13			152	79	152
3200A	1007	633	505	556		470		467				524		120	112	15		13			152	79	152

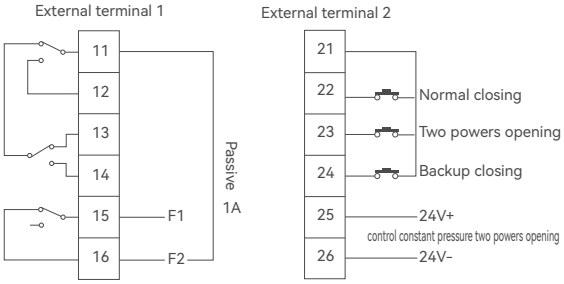
HYCQ1-100 wiring diagram

◆ Typical Wiring

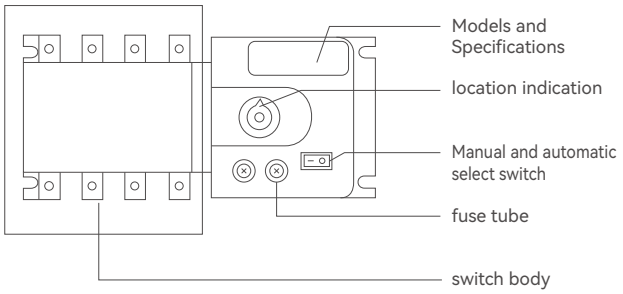




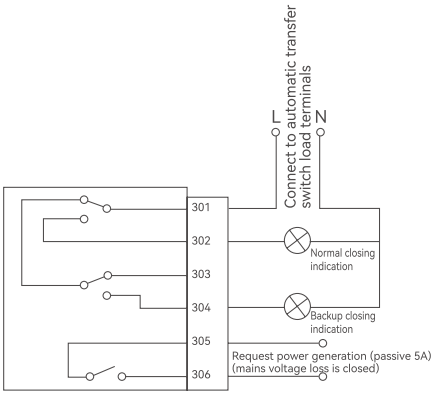
◆ Secondary terminal wiring diagram



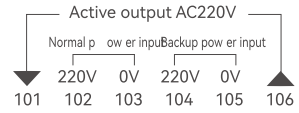
◆ Switch Structure Description



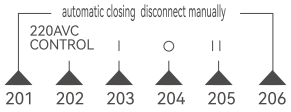
HYCQ1-125~3200A
basic secondary wiring diagram



HYCQ1-125~3200A
fire control type secondary wiring diagram



Note: 102-105 must be connected to the power supply, otherwise the product will not automatically transfer



Note: When 202-205 need external control,
it is valid only when 201 and 206 are disconnected
1. When 202 and 203 are connected, it is closing "I"
2. When 202 and 204 are connected, two powers are opening "O"
3.When 202 and 205 are connected, it is opening " ‖ "