



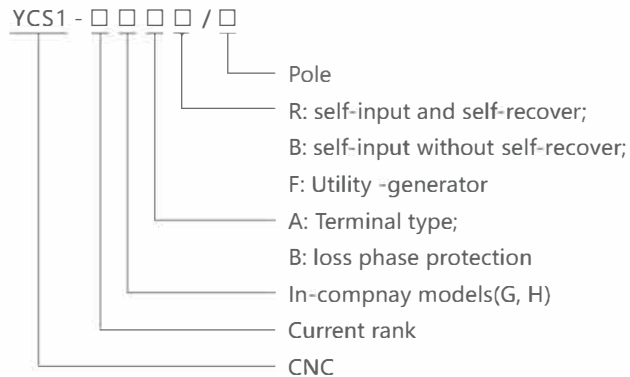
### Brief Introduction

1. YCS1 automatic transfer switch (ATSE) is set the switches and control logic integrated without additional controller, achieve integration of automatic electro mechanical switch, voltage detection, frequency detection, communication interface, electrical, mechanical interlocking functions, automatic, electric remote emergency manual control.
2. This is the logical control panel from various logical order to manage the machines, operate with the gearbox to achieve, switching spring motor storage, instantaneous release of the acceleration, rapid access to sub-circuit or circuits conversion, it is obvious by the state security confinement, greatly improved the performance of various electrical and mechanical properties.
3. YCS1 switches overall design for the metal shell, compact solid. YCS1 switches, control of some of the mental shell , the shell sw itching components used fiberglass unsaturated polyester resin man ufacturing, with a strong dielectric properties, protection and reliability of the operational safety.
4. Switch power supply system applicable to changeover the main power supply and backup power supply automatically or two sets load equipment and safety isolation automatically.
5. Switch appearance is beautiful, creative, simple, and small size. The entire function is an ideal choice in different occasions.

### Standards

1. IEC60947-1(1998)/GB/T4048.11-2002 "low voltage switchgear and control equipment general"
2. IEC60947-3(1999)/GB14048.3-2002 "low voltage switchgear and control equipment, low voltage switches, disconnectors, Switches and electrical fuse combination"
3. IEC60947-6(1999)/GB14048.11-2002 "low voltage switchgear and control equipment multifunctional no.1:automatic transfer switches"

### Model & Explanation



### Products Usage

1. YCS1 series automatic transfer switch is applicabled in AC50HZ, rated voltage of 380V, rated voltage of 220V DC, and distribution the rated current from 16A to 3200A, in motor n etwork, there is a primary and standby power, or as the utility to generator in loading changeover. At the meanwhile, it used to insulate in unfrequent connection break circuit as the standby power.
2. This products are widely used in hospitals, banks, high-rise architecture and so on, which are very important place disallow the failure to supply, distribution and automaticion system.

## Performance and Characters

1. Adopt the double row type composite contact, side pull institutions, micro motor prestore and microelectronics control technology, come true zero flashover (no arcing chamber).
2. Reliable electrical and mechanical interlocking chain, the implement of the components independently with isolation switch, the use of safe and reliable.
3. Using over zero technology, the state of emergency can be enforced under the zero (cut down the 2 ways in the meanwhile) to meet the needs of Fire Fighting.
4. Executive load isolation switch using a single motor-driven, transfer reliable smooth, no noise, little impact.
5. Operators drive only in the implementation of the electrical load isolation by switching transient current, steady work without providing current, energy-saving significantly.
6. Executive load disconnect chain with a mechanical device used to ensure that reliable standby power of non-interference in each other.
7. Obvious off position indicator, padlocks and other functions, high reliability and service life of more than 8000 times.
8. Mechatronics design, switching conversion accurate, flexible, smooth and adopt international advanced logic control technology, anti-interference capability, without external interference.
9. Cooperation with the main power on and standby power off, or the main power off and standby on, the main power and standby power are both off, three kinds stability working. (I-O-II)
10. Easy installation, the control circuit return way adopt the connect and insert terminal connector.
11. Four operator models: emergency manual operation, electric remote control operation, emergency disconnected operation under the automatic stating, automatic control operations.

## Life(N-R-N circle) and Specifications of Automatic Transfer Switch

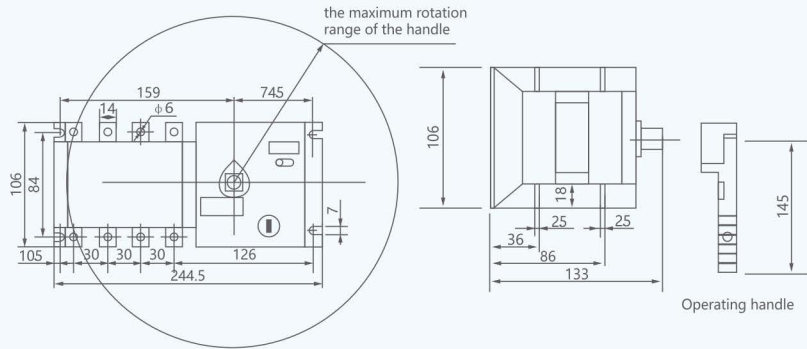
Rated current (Ith)		20 A	40 A	60 A	80 A	100 A	125 A	160 A	250 A	400 A	630 A	800 A	1000 A	1250 A	1600 A	
Rated insulation voltage (Ui)		750V									1000V					
Rated concussion withstand voltage (Uimp)		8kV									12kV					
Rated working voltage (Ue)		AC440V														
Rated working current(Ie)	AC-31A	20	40	63	80	100	125	160	250	400	630	800	1000	1250	1600	
	AC-35A	20	40	63	80	100	125	160	250	400	630	800	1000	1000	1600	
	AC-33A	20	40	63	80	100	125	160	250	400	400	630	800	800	1000	
Rated connection capacity		10Ie														
Rated breaking capacity		8Ie														
Rated limited short circuit current (Is)		50kA									70kA			100kA 120kA		
Rated short-time withstand current (Is)		7kA						9kA		13kA		26kA		50kA		
Transfer I-II or II-I		0.45s									0.6s		1.2s			
Control power voltage		DC24V, 48V, 110V									AC220V					
Electrical consumption																
Rated frequency	Start	300W						325W		355W		400W		440W		
	Normal	55W						62W		74W		90W		98W		
Weight(kg) 4 pole		7.0	7.2	7.2	7.2	7.5	7.5	8.8	9.0	16.5	17	32	36	40	43	



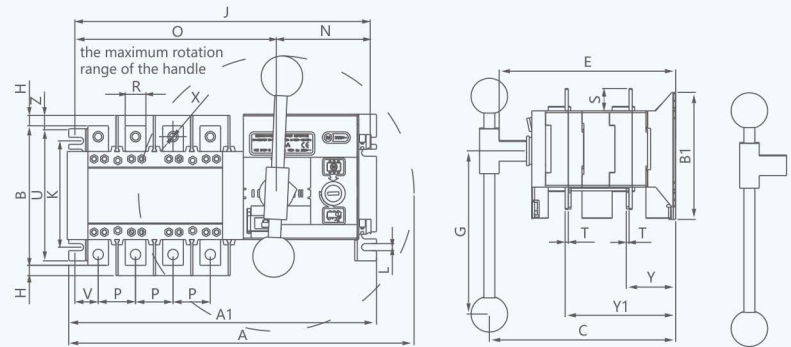
YCS1-100GA series Automatic Transfer

### GA Type Automatic Transfer Switch

Installation dimensions(20~100A)

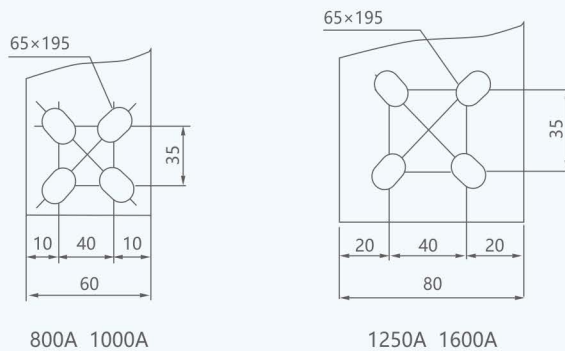


Installation dimensions(20~1600A)



YCS1-160~3200GA series Automatic Transfer

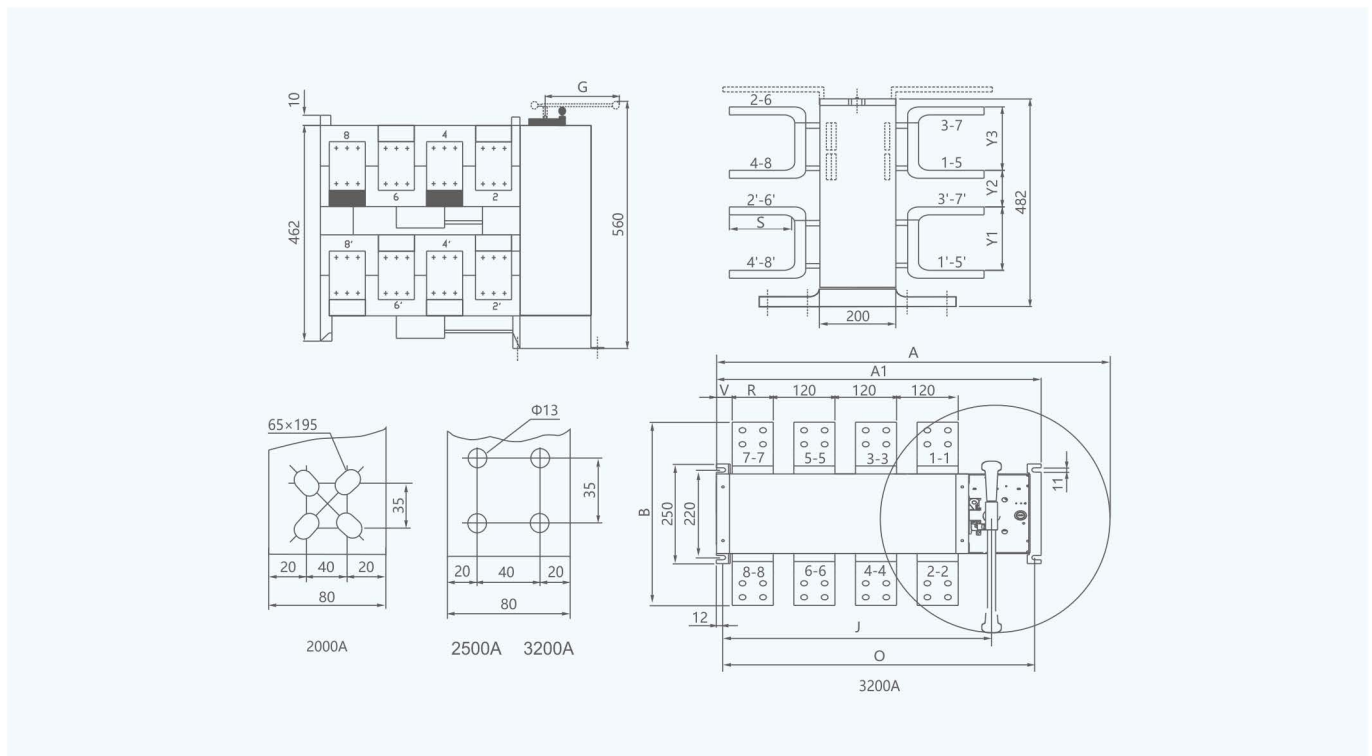
20A~1600A Installation map



## 20A~1600A Installation Dimensions

Specification	Total size							Switch installation											Connection terminal				
	A	A1	B	B1	C	E	G	H	J	K	L	N	O	P	R	S	T	U	V	ΦX	Y	Y1	Z
20A	279	243	106	103	169	145	115	19	229	85	7	76	153	30	14	18	2.5	103	20	6	41	94	3
40A	279	243	106	103	169	145	115	19	229	85	7	76	153	30	14	18	2.5	103	20	6	41	94	3
63A	279	243	106	103	169	145	115	19	229	85	7	76	153	30	14	18	2.5	103	12	6	41	94	3
80A	279	243	106	103	169	145	115	19	229	85	7	76	153	30	14	18	2.5	103	12	6	41	94	3
100A	279	243	106	103	169	145	115	19	229	85	7	76	153	30	14	18	2.5	103	12	6	41	94	3
125A	322	300	135	128	230	189	115	10	284	102	7	91	190	36	20	25	3.5	127	18	9	55	125	4
160A	322	300	135	128	230	189	115	10	284	102	7	91	190	36	20	25	3.5	127	18	9	55	125	4
250A	406	362	163	142	230	189	143	4	343	80/102	7	91	252	36	25	30	3.5	142	15	11	57	125	11
400A	552	433	234	222	230	273	189	14	416	180	9	93	323	50	40	38	5	222	18	13	83	193	19
630A	552	433	250	222	284	273	189	14	416	99/180	9	93	323	65	40	45	6	222	18	13	83	193	19
800A	760	633	328	250	284	350	443	28	613	220	11	87	526	65	60	64	8	250	31	13	109	254	54
1000A	760	633	328	250	363	350	443	28	613	220	11	87	526	120	60	64	8	250	31	13	109	254	54
1250A	760	633	336	250	363	350	443	28	613	220	11	87	526	120	80	68	8	250	21	13	110	254	54
1600A	760	633	336	250	363	350	443	28	613	220	11	87	526	120	80	68	10	250	21	13	110	255	54

## 2000A~3200A Installation map



## 2000A~3200A Installation dimensions

Specification	A	A1	B	B1	C	E	G	H	J	K	L	N	O	P
2000A	800	633	422	542	447	524	610	80	81	10	30	116	118	116
2500A	800	633	432	542	447	524	610	80	81	15	30	121	113	121
3200A	800	633	442	542	447	524	610	80	81	20	30	126	108	126