Our goal is the sea of stars!

ZHEJIANG ZHEGUI ELECTRIC CO,. LTD.

Address: No.316 Weishiyi Road , Yueqing City,
Zhejiang Province, China
ProvinceTel: 0577-62657695/626577696
Email address:service@giantele.com
Website: www.giant-electric.com

Giantele®

ZGQ5

Double Power automatic transfer switch



www.giant-electric.com

ZGQ5

Double Power automatic transfer switch

Product introduction

ZGQ5 Automatic transfer switch (ATS), is a switch and logic control in one, without additional controller, truly realize the electromechanical integration of the automatic transfer switch, with voltage detection, frequency detection, electrical, mechanical interlock and other functions, can achieve automatic, electric remote, emergency manual control.

ZGQ5 series automatic transfer switch is mainly used for AC 50Hz, rated voltage 380V DC rated voltage 220V, rated current 16 to 3200A distribution or motor network in the main one standby or mutual standby power switching system and the load switching of mains and generator sets. At the same time, it can be used for infrequently connecting and disconnecting circuits and lines.

The ZGQ5 switch is designed as a metal shell, small and strong. ZGQ5 switch, the control part is metal shell, the switch shell parts are made of glass fiber unsaturated polyester resin, with strong dielectric properties, protection ability and reliable operation safety.





Model meaning

ZG	Q5	□	/ □
Zhejiang Zhejiang Cabinet Electric Co., LTD	Dual power automatic transfer switch	Current class	Three poles, four poles

Main technical performance parameters

ZGQ5 series automatic switch electrical and mechanical properties

Rated current (Ie)		20A	40A	63A	80A	100A	125A	160A	250A	400A	630A	800A	1000A	1250A	1600A
Rated insulation voltage (Ui)		750V								1000V					
Rated impulse withstand voltage (Uimp)		8kV								12kV					
Rated operating voltage (Ue)		AC400V													
Rated operating 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	800	800	800	1000
Rated switching capacity		10Ie													
Rated breaking capacity		8Ie													
Rated limited short-circuit power supply (Is)		50kA								70kA				100kA	120kA
Rated short-time power supply (Is)		7kA						9kA		13kA		26kA		50kA	
Transition time I-II or II-I		0.45s								0.6s		1.2s			
Control voltage		DC24V、48V、110V								AC220V					
Motor energy consumption															
Rated power	Activate	300W						325W		335W		400W	440W		
	Normal	55W						62W		74W		90W	98W		
Weight (kg)		7.0	7.2	7.2	7.2	7.5	7.5	8.8	9.0	16.5	17	32	36	40	43

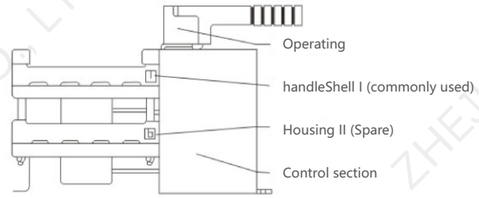
Switch structure description

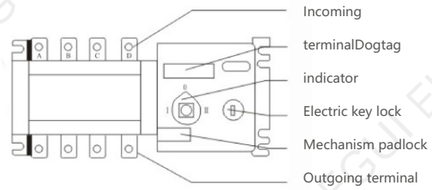
Electric key lock: control switch internal control line power supply, when the electric lock is opened, the switch can achieve automatic, operational control, strong "0" operation: when the electric lock is closed, the switch can only be manually operated.

Operating handle: When manually operating with the operating handle, the electric lock must be closed first.

Mechanism padlock: special maintenance, that is, first use the operating handle to make the switch in the "0 "stop position, and then pick up the padlock mechanism and padlock, can be repaired (pick up the padlock will cut off the internal control power supply of the switch, the switch can not be automatic, and can not achieve manual).

Indicator: Indicates the working status position of the switch (I, 0, II).





Usage method

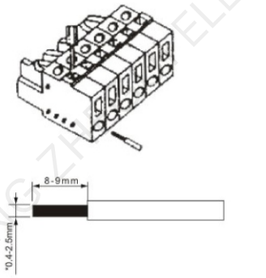
Switching function

Automatic function: When the common power supply is cut off, the switch automatically switches to the standby power supply;
When the usual power supply returns to normal, the switch automatically returns to the usual power supply. Strong "0" function: Start the strong "0" button, the switch will cut off the dual circuit power supply.

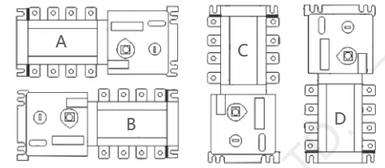
Remote control function: that is, remote control, press the "I" button; The commonly used power supply works; Press the "II" button, the standby power supply wage; Press the "0" button to cut off both power supplies.

Select the switch function as required and connect cables according to the function.

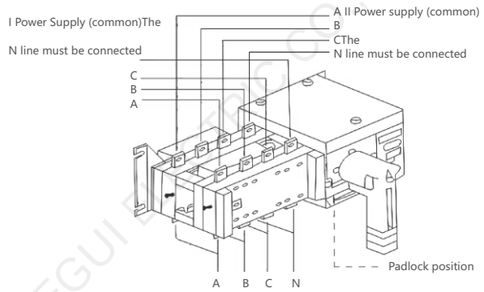
Please specify switch model, current specification and required function when ordering.



Force down with a small letter as shown in the picture, and insert the wire as shown in the picture

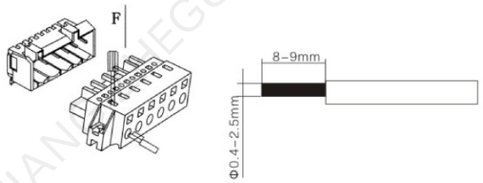


A.B.C is correct and D is incorrect



Cable connection diagram of MCQ5-100A/4 on the load side

○ Wiring terminal operation method

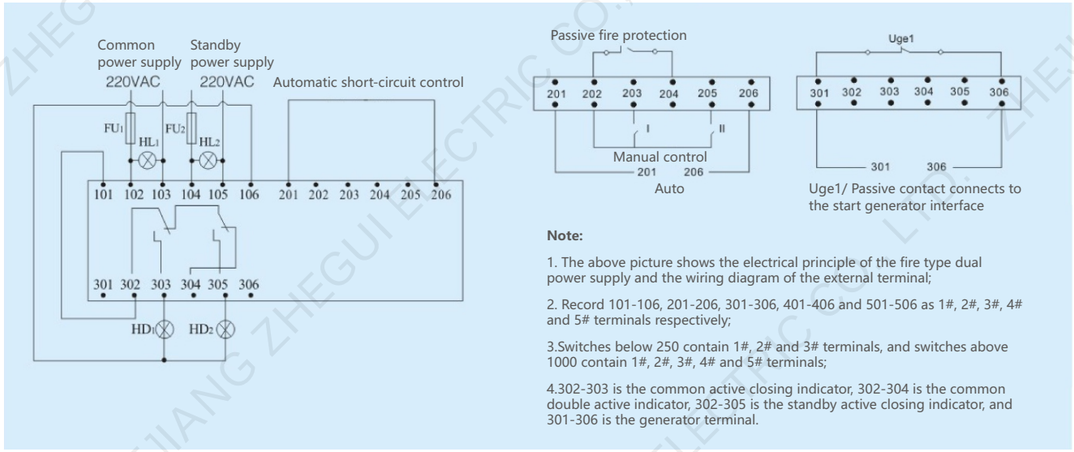


Apply downward force with the small line driver as shown and insert the wire as shown.

○ Type 100-630 wiring method



○ Connecting cables 1000A-3200A



Note:

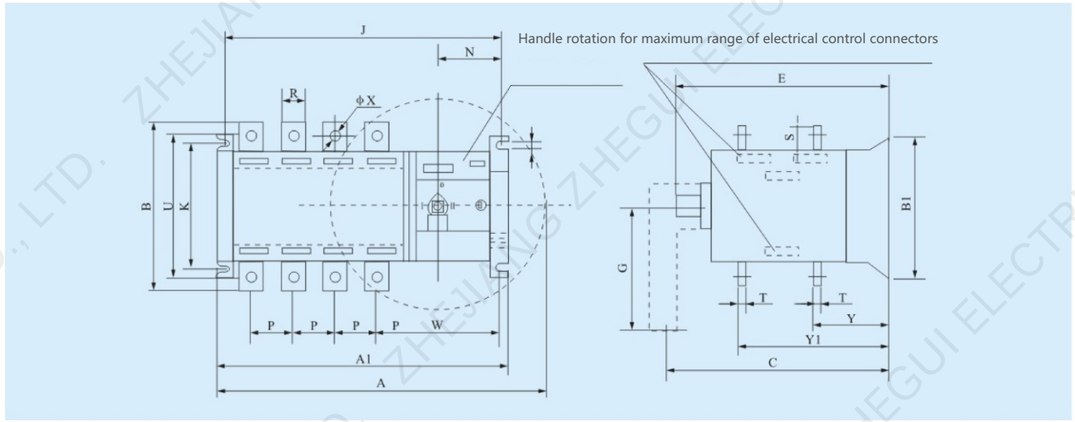
1. The above picture shows the electrical principle of the fire type dual power supply and the wiring diagram of the external terminal;

2. Record 101-106, 201-206, 301-306, 401-406 and 501-506 as 1#, 2#, 3#, 4# and 5# terminals respectively;

3.Switches below 250 contain 1#, 2# and 3# terminals, and switches above 1000 contain 1#, 2#, 3#, 4# and 5# terminals;

4.302-303 is the common active closing indicator, 302-304 is the common double active indicator, 302-305 is the standby active closing indicator, and 301-306 is the generator terminal.

○ Outline and mounting dimensions



Specs	Outline and mounting dimensions																				
In	A	A1	B	B1	C	E	G	J	K	L	N	P	R	S	T	U	W	①X	Y	Y1
100A/3	235	232	135	105	134	133	115	221.5	84	7	74.5	30	14	18	2.5	105	126	6	36	86
100A/4	247	244	135	105	134	133	115	233.5	84	7	74.5	30	14	18	2.5	105	126	6	36	86
125A/3	292	270	135	128	230	189	145	254	102	7	91	36	20	25	3.5	127	158	9	55	125
125A/4	322	300	135	128	230	189	145	284	102	7	91	36	20	25	3.5	127	158	9	55	125
160A/3	292	270	135	128	230	189	145	254	102	7	91	36	20	25	3.5	127	158	9	55	125
160A/4	322	300	135	128	230	189	145	284	102	7	91	36	20	25	3.5	127	158	9	55	125
250A/3	356	312	170	142	261	208	145	293	102	7	91	50	25	30	3.5	142	168	11	60	145
250A/4	406	362	170	142	261	208	145	343	102	7	91	50	25	30	3.5	142	168	11	60	145
400A/3	487	368	260	222	284	273	189	351	180	9	93	65	32	40	5	222	203	11	83	193
400A/4	552	433	260	222	284	273	189	416	180	9	93	65	32	40	5	222	203	11	83	193
630A/3	487	368	260	222	284	273	189	351	180	9	93	65	40	50	6	222	203	12	83	193
630A/4	552	433	260	222	284	273	189	416	180	9	93	65	40	50	6	222	203	12	83	193
800A/3	646	519	357	250	363	350	443	499	220	11	87	120	60	69	8	250	207	12.5	109	254
800A/4	760	633	357	250	363	350	443	613	220	11	87	120	60	69	8	250	270	12.5	109	254
1000A/3	646	519	357	250	363	350	443	499	220	11	87	120	60	69	8	250	207	12.5	109	254
1000A/4	760	633	357	250	363	350	443	613	220	11	87	120	60	69	8	250	207	12.5	109	254
1250A/3	646	519	357	250	363	350	443	499	220	11	87	120	80	69	8	250	207	13	110	255
1250A/4	760	633	357	250	363	350	443	613	220	11	87	120	80	69	8	250	207	13	110	255
1600A/3	646	519	357	250	363	350	443	499	220	11	87	120	80	69	10	250	207	13	110	255
1600A/4	760	633	357	250	363	350	443	613	220	11	87	120	80	69	10	250	207	13	110	255
2000A	800	633	460		542		447	610			84.5		80	120	10					169
2500A	800	633	460		542		447	610			84.5		80	125	15					174
3200A	800	633	460		542		447	610			84.5		80	130	20					179