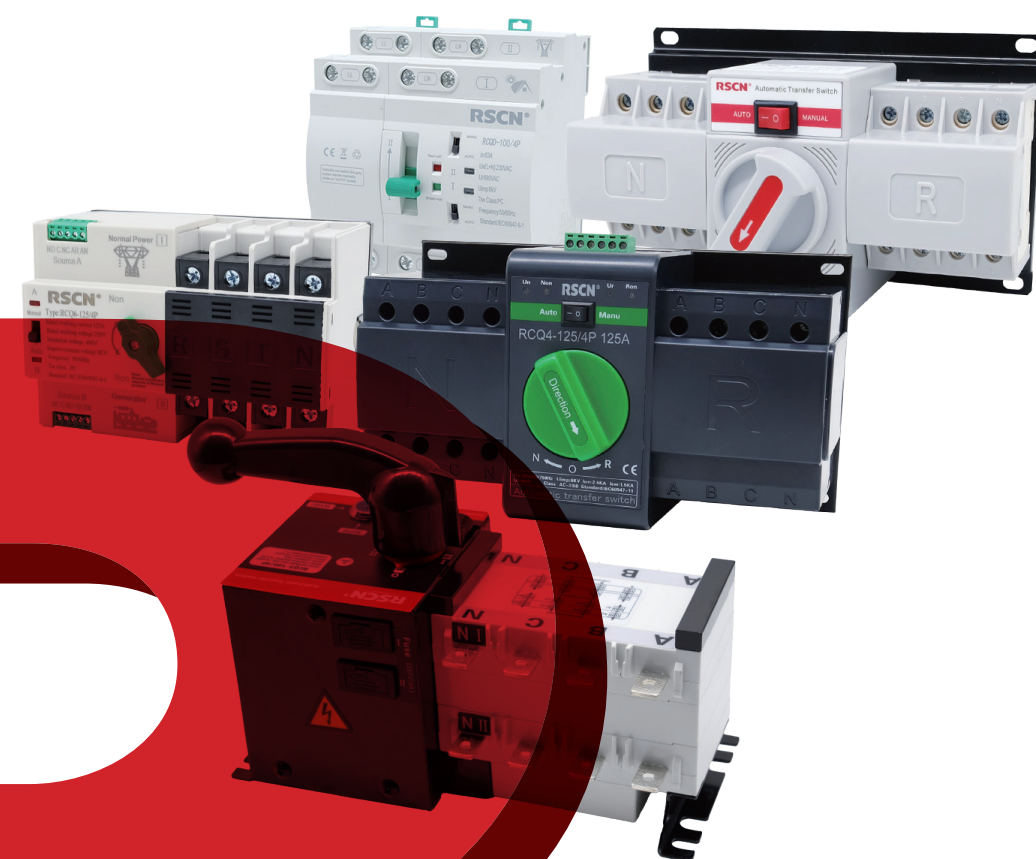


Dual power automatic transfer switch



RCQ3
Dual power automatic
transfer switch



Description

The RCQ3 series dual Automatic Transfer Switch is an advanced self-protection device composed of two main components: a microcomputer controller and a transfer switch. It is designed for 100A-3200A current, 4 poles, and operates at a rated voltage of 400V AC.

Feature

- Supports normal power ON, dual power OFF, and standby power ON functions.
- Equipped with a high-performance micro circuit breaker offering reliable breaking capacity and protection.
- Streamlined design ensures easy operation, high reliability, silent performance, and extended durability.
- Ideal for lighting circuits in commercial buildings, shopping centers, banks, and high-rise structures requiring uninterrupted power supply.

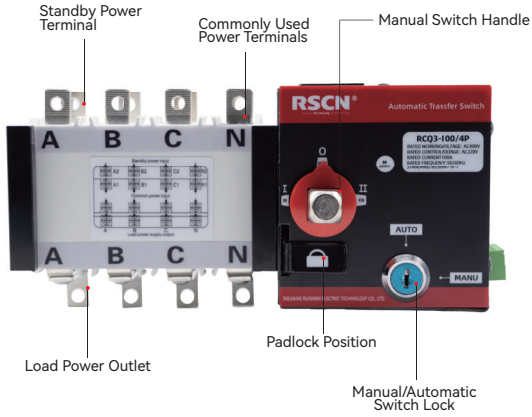
Technical Parameters

Model and Specifictaion		RCQ3										
Rated Current(In)		100A	160A	250A	400A	630A	1000A	1250A	1600A	2000A	2500A	3200A
Rated insulation voltage(Ui)		750V			1000V							
Rated concussion withstand voltage(Uimp)		8KV			12KV							
Rated working voltage(Ue)		AC440V										
Rated working current(Ie)	AC-31A	100	160	250	400	630	1000	1250	1600	2000	2500	3200
	AC-35A	100	160	250	400	630	1000	1250	1600	2000	2500	3200
	AC-33A	100	160	250	400	630	1000	1250	1600	2000	2500	3200
Rated connection capacity		10Ie										
Rated breaking capacity		8Ie										
Rated short-time withstand current(Is)		7KA	9KA		13KA		26KA	50KA				55KA
Rated limited short-circuit current(Is)		100KA			70KA		70KA	100KA	120KA			
Transfer I-II or II-I		0.5	1	1.1	1.2		1.25			2.45		
Control Power voltage		DC24V、48V、110V AC220V										
Rated Frequency (Normal)		55W	62W		74W		98W			120W		

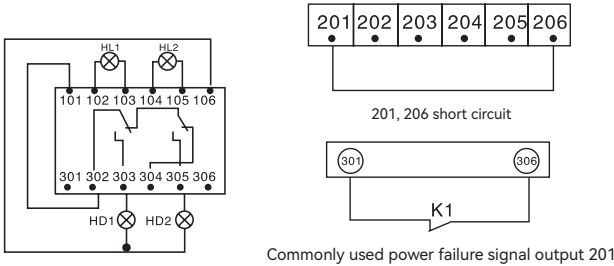
RCQ3 Dual power automatic
transfer switch



Front-Face Panel

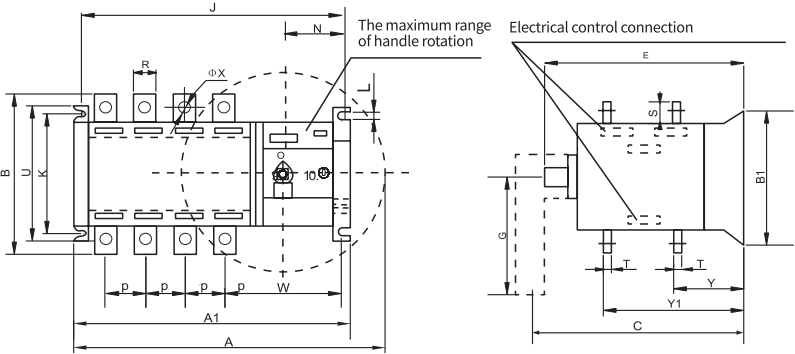


Wiring Diagram



HL1 is the normal power supply indicator;
HL 2 is the backup power supply indicator
HD 1 is the normal power supply closing indicator;
HD 2 is the backup power supply closing indicator;

Technical Parameters



In	A	AI	B	BI	C	E	G	J	K	L	N	P	R	S	T	U	W	∅ X	Y	Y1
100A/3	235	232	106	105	134	133	115	2215	84	7	74.5	30	14	18	2.5	105	126	6	36	86
100A/4	247	244	106	105	134	133	115	2335	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	16	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

RCQ1

Dual power automatic transfer switch



Description

The RCQ1 Series Dual Power Automatic Transfer Switch (ATS) is suitable for dual-circuit power supply systems with an AC frequency of 50Hz or 60Hz, a rated voltage of 400V, and a current of 63A or below. It enables selective switching between two power sources as needed.

Key features include protection against short circuits, overload, undervoltage, and power loss, along with fire safety functions, dual-break operation, and output closing signal support.

Ideal for lighting circuits in offices, malls, banks, stations, hospitals, and high-rise buildings requiring fire safety compliance.

Feature

- Supports normal power ON, dual power OFF, and standby power ON functions.
- Equipped with a high-performance micro circuit breaker offering reliable breaking capacity and protection.
- Streamlined design ensures easy operation, high reliability, silent performance, and extended durability.
- Ideal for lighting circuits in commercial buildings, shopping centers, banks, and high-rise structures requiring uninterrupted power supply.

Technical Parameters

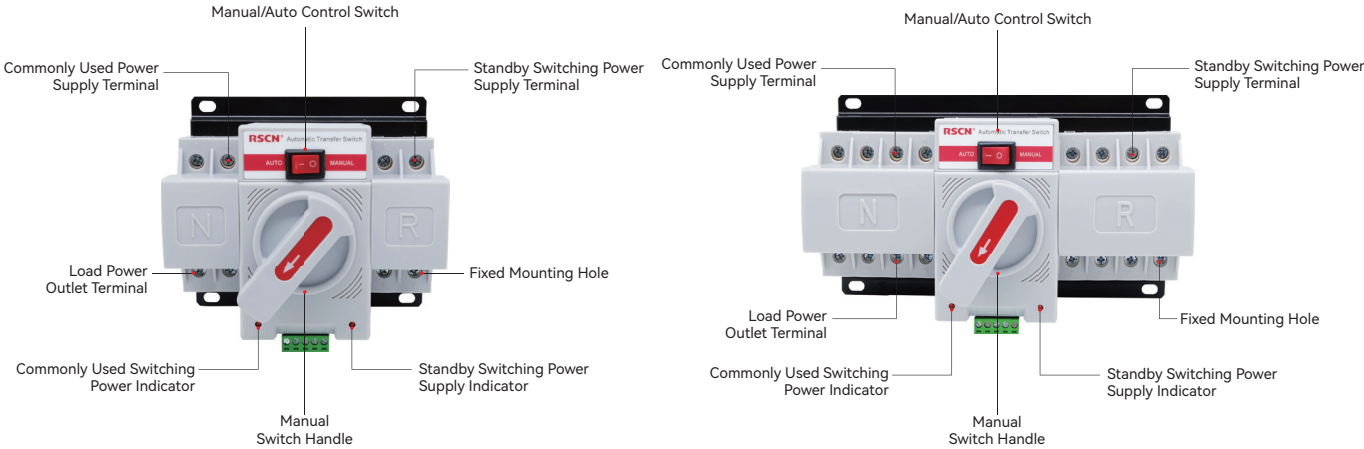
Model and Specifictaion	RCQ1-63A/2P	RCQ1-63A/4P
Working Frequency	50Hz/60Hz	
Rated Voltage	AC400V	
Operating Voltage	AC220V	
Current Specifications	6A, 10A, 16A, 20A, 25A, 32A, 40A, 63A	
Rated Short Circuit Breaking Capacity	6KA	
Incoming and Outgoing	2 in 2 out	
Transfer Action Time	1~3S	
Operation method	Automatic and Manual	
Operation	Handle Directly	
Conversion Method	Self-return	

RCQ1

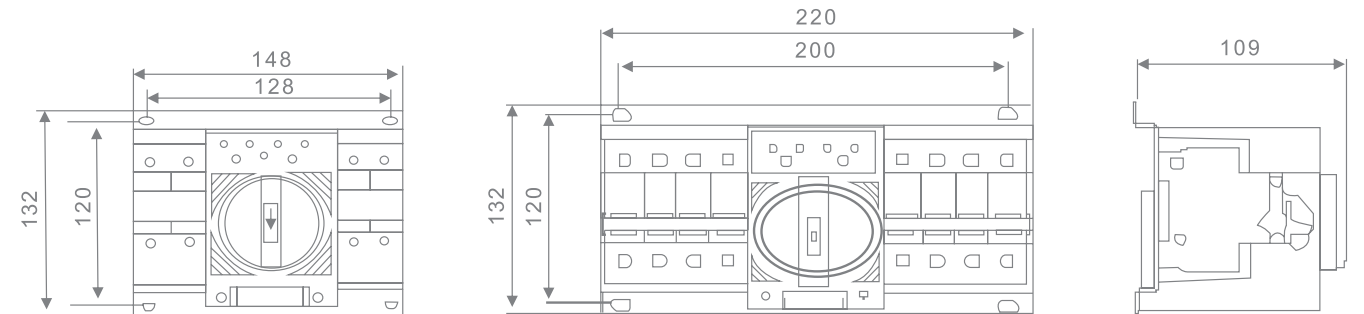
Dual power automatic transfer switch



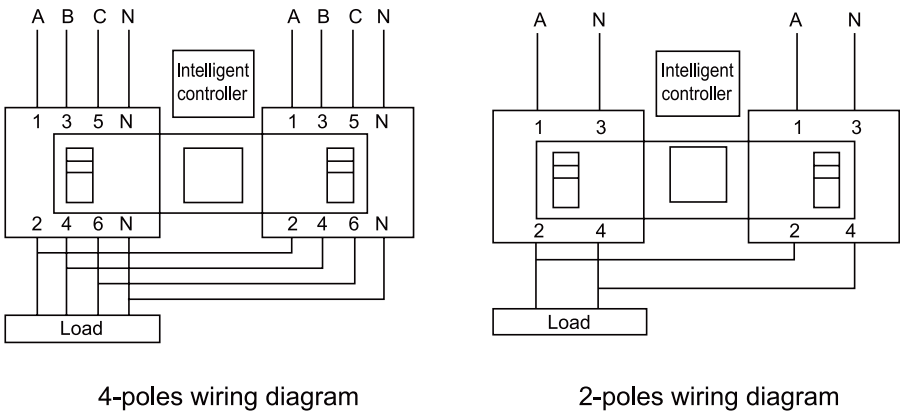
Front-Face Panel



Dimensional Drawing



Wiring Diagram



RCQ4

Dual power automatic transfer switch



Description

Mini dual power automatic transfer switch (RCQ4), suitable for dual power supply systems with AC 50Hz, rated working voltage 400V, and rated working current below 125A. Selective conversion between two power sources can be performed as needed.

The product has overload and short circuit functions, as well as the ability to output closing signals. Especially suitable for lighting circuits in office buildings, shopping malls, banks, high-rise buildings, etc. The product meets the standard: GB/T14048.11-2016 Low voltage switchgear and control equipment Part 6: Multi functional electrical appliances Part 1: Automatic switching appliances.

Feature

- Strong resistance to interference and high accuracy
- Complete protection functions, with overload and short circuit protection;
- Small size, high breaking height, short flying arc, compact structure, and aesthetically pleasing appearance;
- Noisy operation, energy-saving and consumption reducing, easy installation and operation, stable performance.

Technical Parameters

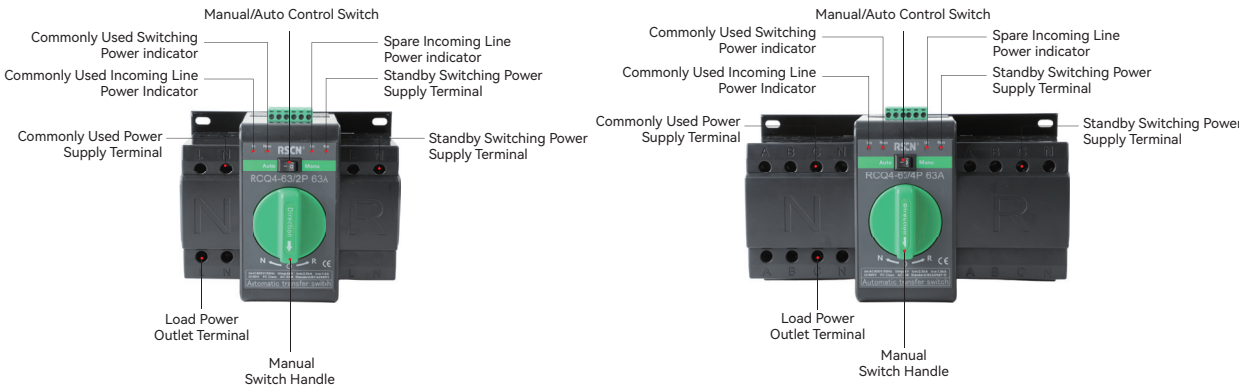
Model and Specificaion	RCQ4-63A/2P	RCQ4-63A/4P	RCQ4-125A/2P	RCQ4-125A/4P
Working Frequency	50Hz/60Hz			
Rated Voltage	AC400V			
Operating Voltage	AC230V			
Current Specifications	10A, 16A, 20A, 25A, 32A, 40A, 63A		<=125A	
Incoming and Outgoing	2 in 1 out			
Operation method	Automatic and Manual			
Transfer Action Time	3S			
Rated short-time withstand current(Is)	7.65KA			

RCQ4

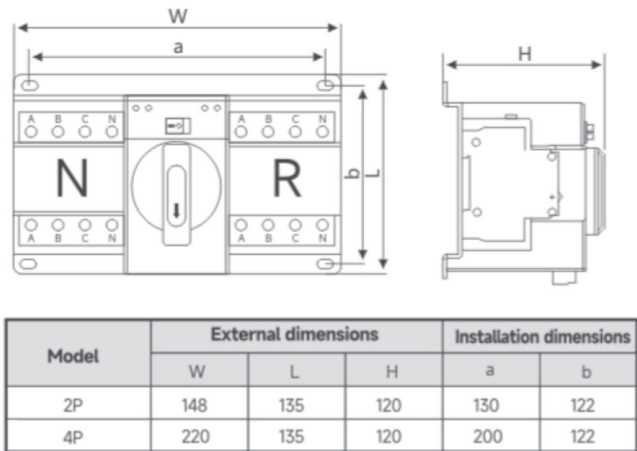
Dual power automatic transfer switch



Front-Face Panel

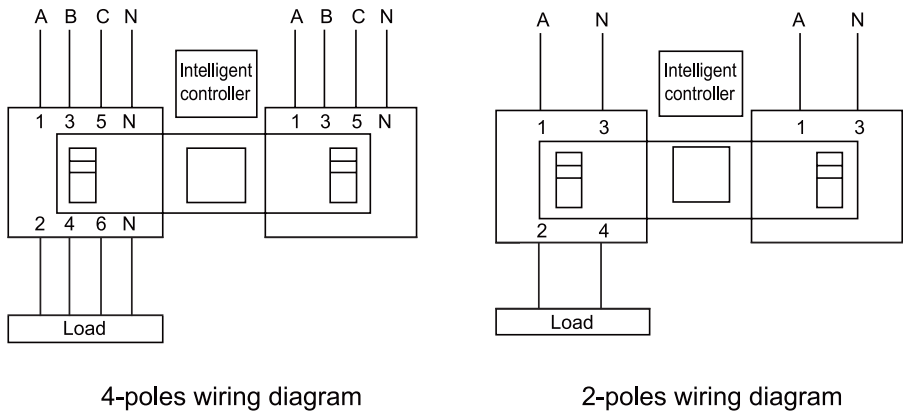


Dimensional Drawing



Model	External dimensions			Installation dimensions	
	W	L	H	a	b
2P	148	135	120	130	122
4P	220	135	120	200	122

Wiring Diagram



A large, bold, red letter 'R' logo, which is the primary branding element for the Red Cross. The 'R' is stylized with a thick stroke and a rounded top. It is positioned on the left side of the page, partially cut off by the edge.

The RCQ5 Series Automatic Transfer Switch is designed for dual power systems up to 400V/630A. It automatically transfers to backup power when the normal supply undervoltage occurs, and returns when normal power is restored. Manual operation is also available. Suitable for residential, office, and commercial sites such as shopping malls.

- Pre-stored energy operating mechanism for fast closing and breaking; single-pole double-throw contacts with large clearance, excellent electrical isolation; self-aligning moving contacts, independent spring plates provide sufficient pressure to ensure conductivity and short-time withstand current (I_{cw}).
- Coaxial drive for three-phase and N-phase with sync deviation $\leq 10\text{ms}$; three-position design supports fire control and feedback.
- Includes power-on and mechanical position indicators; manual operation available. Three-pole products have dedicated neutral terminal. Molded-case insulation requires no grounding; maintenance lock offers dual protection.
- Modular integrated design saves space and reduces cost. Fine craftsmanship and full quality control enable automatic switching for critical applications.

Model and Specification	RCQ5-100	RCQ5-160
Rated Current Specification	100	160
Rated Operating Voltage(Ue)	AC220V,AC400V/50Hz	
Rated Insulation Voltage(Ui)	1000V	15000V
Rate Impluse Withstand Voltage(Uimp)	10000V	12000V
Number of Poles	2P,3P,4P	
Utilization Category	AC-33B	
Rated Limiting Short-circuit Current	100KA(NTI-125 I2T 10.4kA2s)	100KA(NTI-250 I2T 55.7kA2s)
Switching Operation Time	0.4s-0.5s	0.4s-0.5s
Implementation Standard	GB14048.11 IEC/EN60947-6-1	

Front-Face Panel



nole: When the switch is level 3, please connect the zero line to the 3 and 6 indicators for AC220V output, and no external power source is allowed

The diagram shows a 6-position switch with positions 1 through 6. Position 1 is labeled 'Electrical instructions are commonly used'. Position 2 is labeled 'Backup has electrical instructions'. Position 3 is labeled 'Common zero contact'. Position 4 is labeled 'Commonly used closing instructions'. Position 5 is labeled 'Alternate closing instructions'. Position 6 is labeled 'Spare zero connection'. The switch is shown in a closed position, with the zero line connected to positions 3 and 6.

[illegible]

RCQ6

Dual power automatic transfer switch



Description

The RCQ6 Series Dual Power Automatic Transfer Switch (ATS) is a micro household dual-power transfer device designed for AC 50/60Hz systems up to 400V and currents up to 125A. It ensures continuous and reliable power by automatically switching to a backup source when the main power fails. Suitable for residential and commercial applications such as office buildings and shopping malls.

Feature

- Compact structure with reliable automatic transfer and long service life
- Supports both electrical and manual operation modes
- Equipped with overload and short-circuit protection functions
- High resistance to interference and operational accuracy
- Energy-saving, easy to install, and stable performance

Technical Parameters

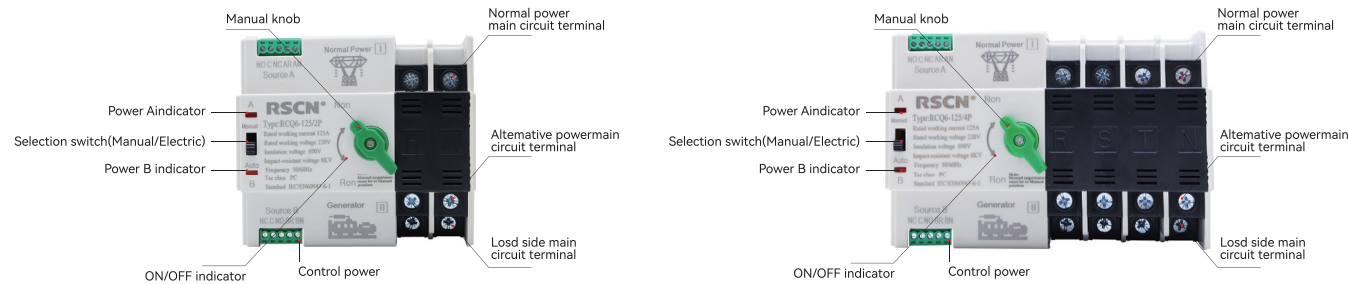
Model and Specification	RCQ6		
Rated current Ie A	16 20 25 32 40 50 63 100 125		
Insulation voltage Ui	AC 690V 50/60Hz AC690V		
Rated voltage Ue	AC 400V 50/60Hz AC400V		
Grade	Grade PC:able to male and withstandnot to break short-circuit current		
Use category	AC-33iB		AC-33B
Pole	2P	3P	4P
Weight(kg)	0.6	0.75	0.9
Life	Electrial:2000times;Mechanical:5000times		
Rated conditional short-circuit current Ig SCPD (fuse)	50KA		
Rated impulse withstand voltage	RT16-00-63A		
Control circuit	8kV		
Auciliary circuit	Rated control voltage Us:AC220V.50Hz Correct working condition85%Us ~110%Us		
Contact transfer time	2 independent relays,each inclufes 2 groups oftransfer contact. Contact capacity:AC200V50Hz,1e=50A		
Operating transfer time	<50ms		
Return transfer time	<50ms		
Off-time	<50ms		
Off-time	<50ms		

RCQ6

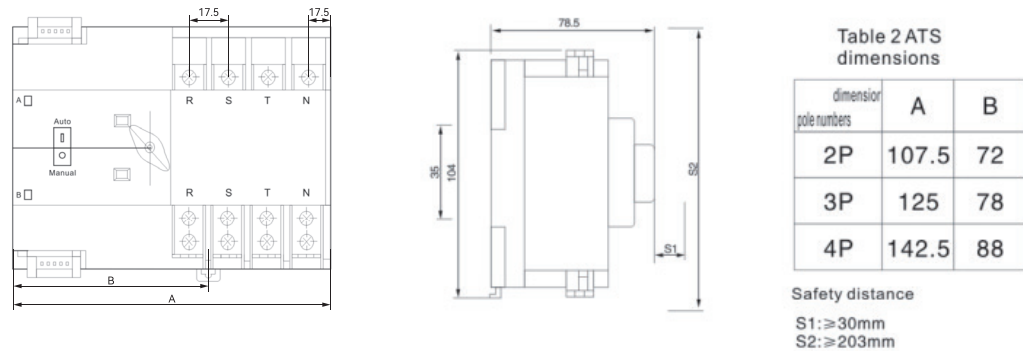
Dual power automatic transfer switch



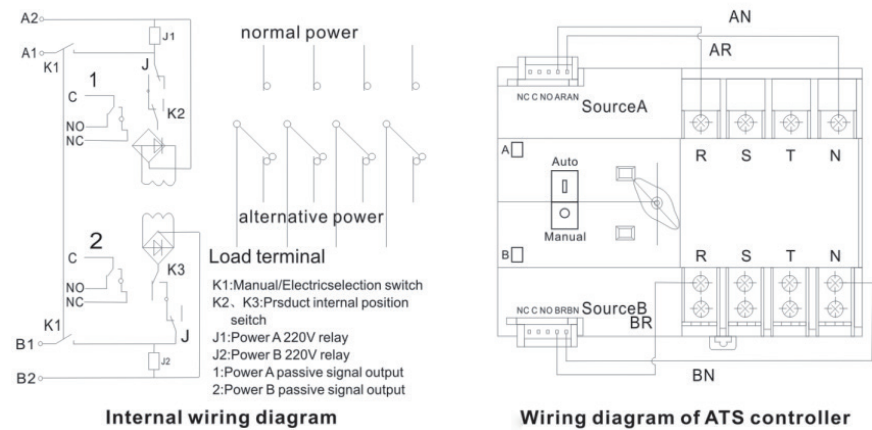
Front-Face Panel



Dimensional Drawing (63A, 100A,125A)



Wiring Diagram



RCQD
Dual power automatic
transfer switch



Description

The RCQD Series Dual Power Automatic Transfer Switch (ATS) is a PC-grade automatic transfer switch designed for AC 50-60Hz systems with a rated current from 6A to 63A. It features a two-position design (common and standby) to automatically transfer the load to a backup power source in the event of a main power failure, ensuring continuous operation with a swift transfer time of less than 50 milliseconds.

Feature

- Swift automatic transfer with operation time under 50ms
- Rated operational current from 6A to 63A (2P/4P)
- High reliability with a mechanical life of ≥ 5000 cycles
- DIN-rail mounting for easy installation
- Robust protection: case rating of IP30 and impulse withstand voltage of 8kV
- Supports both manual and automatic operation modes

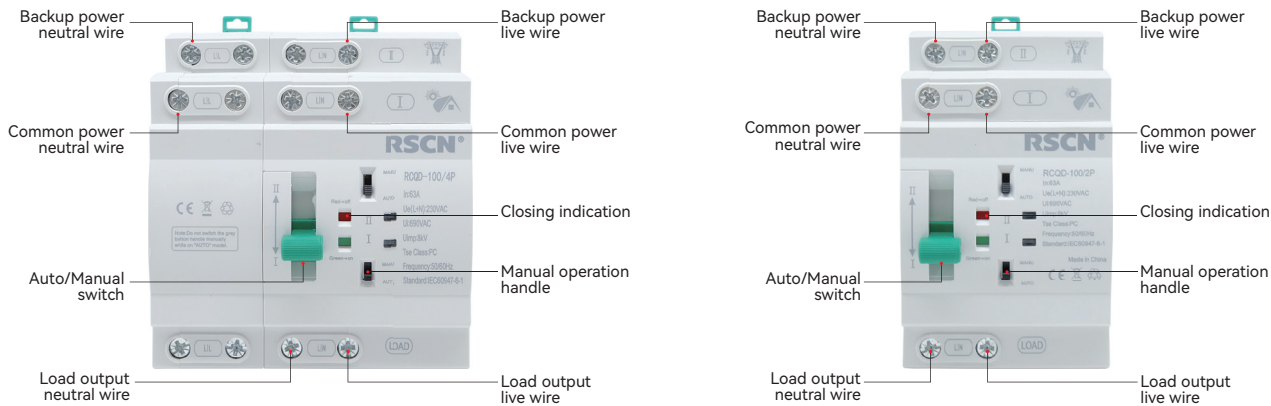
Technical Parameters

Model and Specification	RCQD
Case grade	63
Rated operating current Ie(A)	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Rated insulation voltage Ui	690V
Rated impulse withstand voltage Uimp	8kV
Rated working voltage Ue	AC220V/AC110V
Rated frequency	50/60Hz
Class	Pc class, can be switched on an loaded without generating short-circuit current
Pole number	2P, 4P
Rated short-circuit current Iq	50kA
Short circuit protection device (fuse)	RT16 - 00 - 63A
Rated impulse withstand voltage	8kV
Control circuit	Rated control voltage Us: AC220V, 50Hz; Normal working conditions: 85%Us - 110%Us
Auxiliary circuit	AC220V/110V, 50Hz Ie = 5A
Contactor change-over time	<50ms
Operation change-over time	<50ms
Return change-over time	<50ms
Power off time	<50ms
Change-over operation time	<50ms
Mechanical life	≥ 5000 Times
Electrical life	≥ 1500 Times
Usage category	AC - 31B

RCQD Dual power automatic
transfer switch



Front-Face Panel



Note:Terminal wiring area: fit for(1~25)mm² Wre connection screws M5, torque: 2.5N.m

Dimensional Drawing

