

II. Technical parameters

Refer to Table 1 for the switch technical parameters.

Table 1

Rated voltage (V)		AC400		
Rated impulse withstanding voltage (kV)		6		
Rated current (A)		16、20、25、32、40、50、63		
Rated isolation voltage (V)		AC690		
Coil driving power		AC220/230V、3.5A		
Rated limited short-circuit current (kA)		20		
Use category		AC-31B		
Lifespan (time)	Mechanical	8000		
	Electric	3000		
Number of poles		2P	3P	4P
Weight (kg)		4	4.5	5.5
Operation cycle (s)		30		

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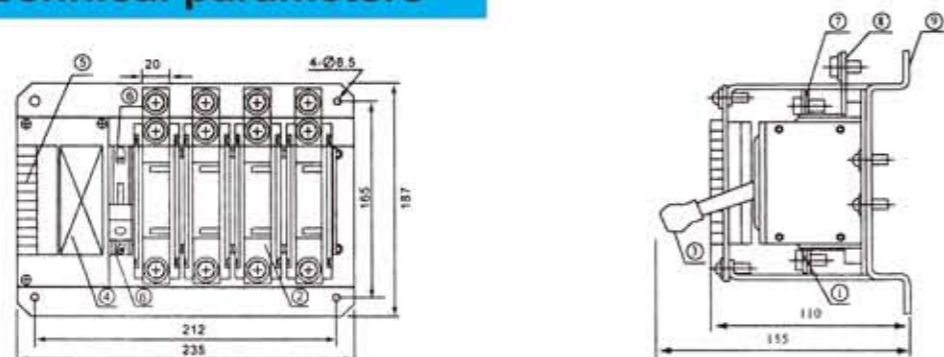
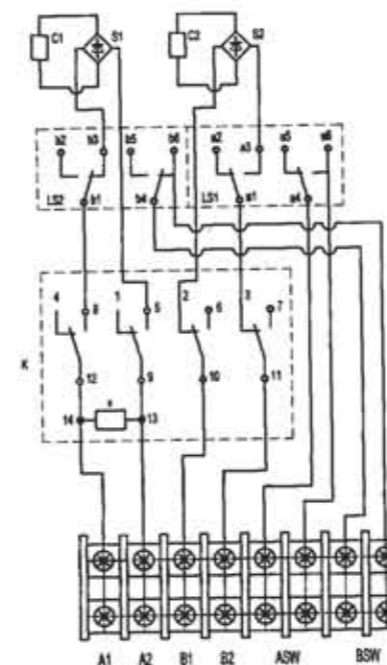


Figure 2 Outer dimensions and installations dimension

- ① Load bus ② Power module ③ Operating handle ④ Name plate ⑤ Control circuit wiring terminal
- ⑥ Mechanical indication of power transfer ⑦ Active power bus ⑧ Standby power bus ⑨ Base

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Refer to Figure 3 for the internal wiring diagram of the switches with automatic input and recovery. In case of a voltage drop or undervoltage of the active power (A), relay K is released, the standby power (B) passes K to select the switch LS1 to activate the input coil C2, the switch transfers to the standby power (B), the mechanism detects the switch between LS1 and LS2 to cut the C2 current, at the same time a standby power switch-on signal is output from the BSW terminal. When the active power (A) returns, K is closed, the active power (A) passes K and selects the switch LS2 to activate input coil C1, the switch transfers to active power (A), the mechanism detects a switch between LS1 and LS2 to cut the C1 current, and at the same time an active power switch-on signal is output from the ASW terminal.



Note: A1, A2—Active power (A) input terminal (connected to AC 220V)
 B1, B2—Standby power (B) input terminal (connected to AC 220V)
 ASW—Signal output terminal for active power switch-on
 BSW—Signal output terminal for standby power switch-on

K—Relay
 C1, C2—Input coil
 S1, S2—rectifier
 Ls1, Ls2—Position selection switch

Figure 3 Internal wiring diagram (the switch in position B)

V. Wiring Information

1. Make sure the wiring is carried out by professionals who have a proper understanding of this manual.
2. Before wiring examine the switch to ensure that it is undamaged. Operate the switch using the operating handle and use a multimeter to check that all the phases of the active (standby) power and load connection/disconnection are normal.
3. When wiring pay special attention to the following.
 - a. The phase sequences of the active and standby power should be verified to be the same.
 Verify that the voltage of the active and standby control power are both 220VAC.
 - b. Perform the wiring according to the labels that identify the wiring terminals of the main circuit and the control circuit.
 - c. Ensure the switch is grounded properly.
4. Use the operating handle only for switch debugging and maintenance in the power off state. Do not use the operating handle with a load. The handle should be removed before the switch is put under power.