



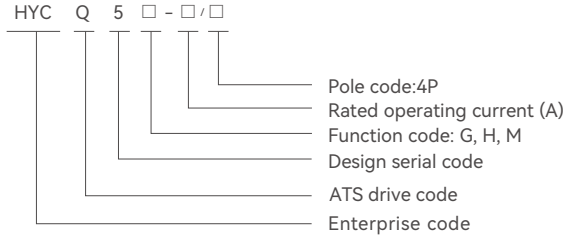
HYCQ5 Series Automatic Transfer Switches

Feature

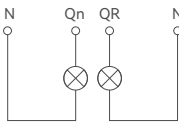
- ◆ HYCQ5 series of automatic transfer switch is composed of small circuit breaker stand - alone operating mechanism , control circuit , etc . All components are installed on the same base plate . Te control power supply voltage of the automatic transfer switch is AC230V, and the mechanical life is 5000 times .
- ◆ HYCQ5 series of automatic controller (only capable of self - switching and self - recovery) simultaneously detects the phase voltage (automatic control power supply) of two power supplies (referred to as normal power supply and backup power supply) at the same time . When the normal power supply is abnormal , the small circuit breaker When there is voltage loss or phase loss in the A phase of the power supply , the automatic controller makes the device switch to the backup power supply without delay ; when the normal power supply returns to normal , the automatic controller makes the device return to the normal power supply without delay . Two power sources are abnormal at the same time .

HYCQ5 Series Automatic Transfer Switches

Model description



HYCQ5-63G



Normal Working Conditions

- ◆ Ambient air temperature range: -5 °C to +40 °C ;
- ◆ Altitude: the altitude of the installation site shall not exceed 2000m;
- ◆ Atmospheric conditions: When the maximum temperature is +40° C, the relative humidity of the air does not exceed 50%, and a higher relative humidity is allowed at lower temperatures. Temperature, for example, 90% at 20° C, special measures should be taken for condensation caused by temperature changes;
- ◆ Pollution level: 3;
- ◆ Electrical level: CB level.

Structure and performance

◆ Structure

HYCQ5-63 series of automatic transfer switch is composed of small circuit breaker stand - alone operating mechanism , control circuit , etc . All components are installed on the same floor . The control power supply voltage of the automatic transfer switch is AC230V, and the mechanical life is 5000 times .

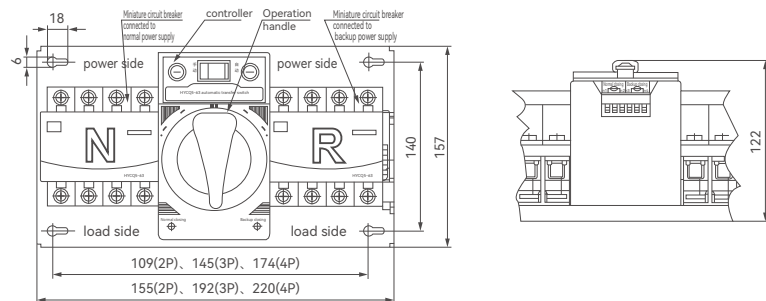
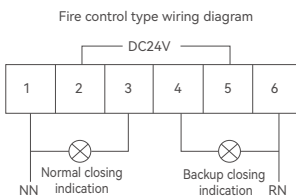
◆ Performance

HYCQ5-63 automatic controller (only capable of self - switching and self - recovery) simultaneously detects the phase voltage (automatic control power supply) of two power supplies (referred to as common power supply and backup power supply), when the common power supply is abnormal , that is , a small circuit breaker . When the A - phase of the A - phase loses voltage or lacks phase elbow , the automatic controller makes the device switch to the standby power supply without delay ; when the common power supply returns to normal , the automatic controller makes the device return to the common power supply without delay . Two power sources are abnormal at the same time .



HYCQ5-63H

Shape and installation dimensions



HYCQ5-63G

HYCQ5-125G Series Automatic Transfer Switches



HYCQ5-125G

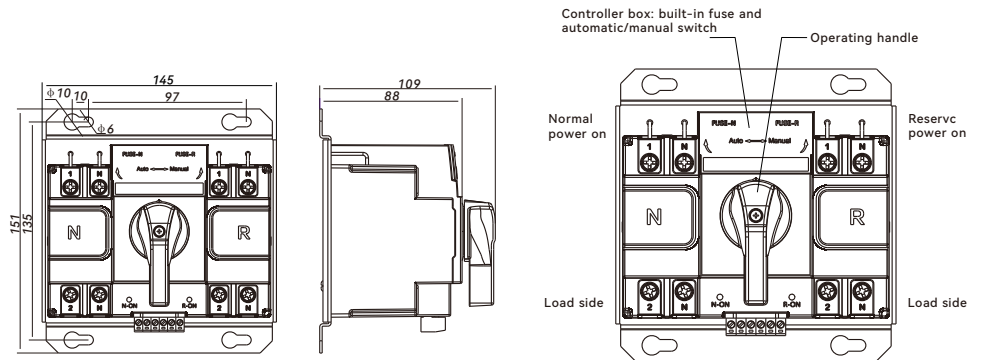
Normal conditions for operation and installation

- ◆ Environmental Temperature Condition: $-5\sim+40^{\circ}\text{C}$;
- ◆ Installation site is not more than 2000 meters above sea level;
- ◆ Pollution Level: Grade 3;
- ◆ Installation Category: III
- ◆ Vertical installation or horizontal installation.

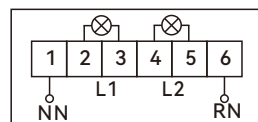
Main parameter

Model	HYCQ5-125G
Rated Current I_e A	16~125
Electrical Appliances Class	PC
Use Category	AC~33B
Rated voltage U_e	220V
Rated frequency	50/60Hz
Rated short circuit connecting ability I_{cm}	1kA
Rated short-time withstand current I_{cw}	2.5kA
Pole	2P/4P

Appearance & Installation Dimension



Terminal wiring diagram



HYCQ5 Series Automatic Transfer Switches

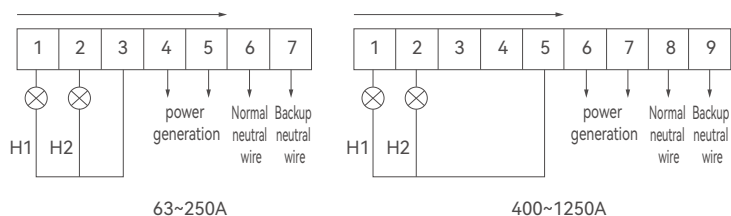
The main technical parameters



HYCQ5M-125/4P

- ◆ The operating voltage of the switch controller is AC220V;
- ◆ The mechanical life of the switch (N-R-N cycle) is 5000 times;
- ◆ The minimum transfer time is 1.5~4S;
- ◆ The switch has the functions of fire-fighting of the starting oil engine and switching; automatic switch without automatic recovery and backup priority (customized).
- ◆ The switch carries the operating handle at any time and is used as an emergency manual operation switch. (for use in case of power failure);
- ◆ There are three stable working states:
state I: normal power supply closed, backup power supply closed,
state II: normal power supply divided, backup power supply closed;
Status III : normal power points, backup power points.

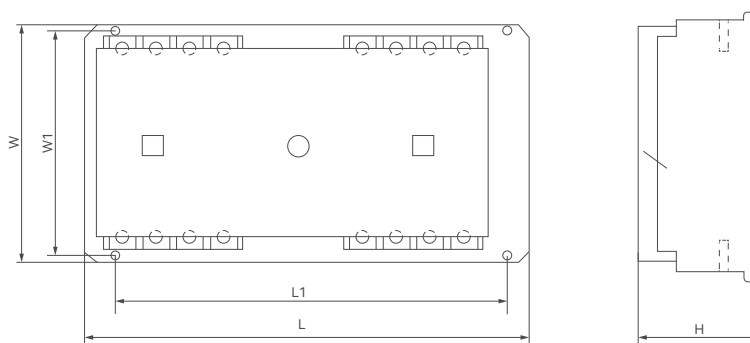
Terminal wiring diagram



Note:

- (1)H1 and H2 are the external indications of normal closing and backup closing;
- (2) 6 and 7 are grid --- generator start contacts;
- (3) 8 is the neutral line (three-pole) of the normal power supply, and 9 is the neutral line (three-pole) of the spare power supply.

Shape and installation dimensions



Model	size	L		L1		W		W1		H
		3P	4P	3P	4P	3P	4P	3P	4P	
HYCQ5M-125		342	375	260	290	215	215	198	198	111
HYCQ5M-250		385	420	298	335	228	228	208	208	132
HYCQ5M-400		508	556	437	485	333	333	307	307	174
HYCQ5M-630		618	676	543	600	348	348	324	324	191
HYCQ5M-800		670	728	602	658	350	350	320	320	190
HYCQ5M-1250		710	780	680	740	370	370	340	340	225

Note: Installation dimensions: 108mm×89mm.