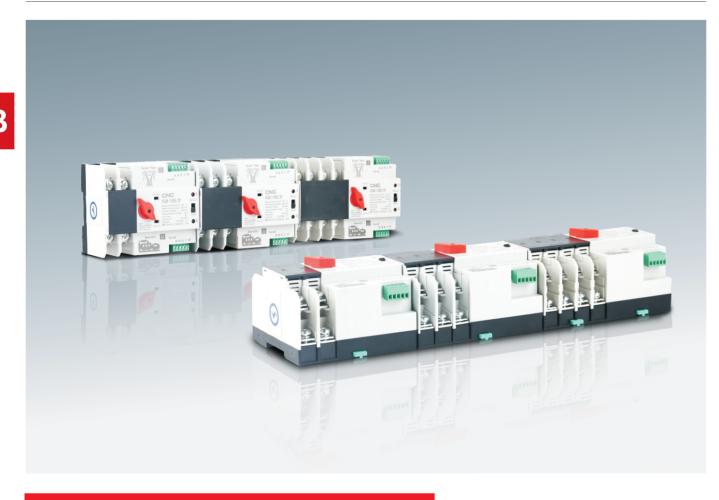
YCQ4E/YCQ4R PC type Automatic Transfer Switch



General

The dual power automatic switch is a newly developed miniature household power switch, which is mainly used to test whether the main power supply or standby power supply is normal. When the normal power supply is abnormal, the standby power supply starts to work immediately, which ensures the continuity, reliability and safety of power supply, This product is specially designed for household rail installation and is specially used for Pz30 distribution box.

The dual power automatic switch is suitable for emergency power supply systems with 50 or 60 Hz and rated 400V AC.ATS has the characteristics of solid structure, reliable conversion, convenient installation and maintenance and long service life. It is widely used in various occasions where power failure cannot be sustained, and can be operated by electricity or manually. ATS is composed of TSE and controller.

According to IEC 60947-6-1, Part 6-1; multifunctional equipment and switchgear is formulated, It can be seen that ATS is the most qualified low-voltage switchgear and control device.

Distribution Apparatus

YCQ4E/YCQ4R PC type Automatic Transfer Switch

General

IEC60647-6(1999)/GBI14048.11-2002 "low voltage switchgear and control equipment multifunctional no.1:automatic transfer switches"

Control device:built in controller

Product structure:no power off,guide rail type,high current,small volume,two-stage type, simple structure,ATS integration

Features:fast switching speed,low failure rate,convenient maintenance and reliable perfomance

Wiring mode:front plate wiring

Conversion mode:power grid to power grid,power grid to generator,photovoltaic to urban power,automatic switching and self recovery

power, automatic switching and sen re

Product frame:100

Product current: 10, 16, 20, 25, 32, 40, 50, 63, 80, 100A

Product classification:direct load type

Pole No.:2,3,4

Standard:GB/T14048.11

ATS E:PC class

Switching time: 0.008s/8ms

Normal operation time and installation conditions

Ambient air temperature

The maximum temperature shall not exceed 40° C the minimum temperature shall not be lower than -5° C, and the average temperature within 24 hours shall not be higher tehan 35° C.

Altitude

The altitude of the installation site should not be higher than 2000m.

Atmosphenc conditions

When the maximum temperature reaches 40° C, the telative humidity of the installation site should not exceed 50%; when the temperature is the minimum tem -perature -5°C, the relative humidity is higher, for example, the temperature is 25° C, and the relative humidity is 90%. Due to the temperature change, special measures should be taken to deal with the occasional condensation on the surface of the product. Pollution grade

The pollution grade of ATS conforms to grade 3 specified in GB/T14048.11.

Installation category

The installation type of ATS confoms to the category specified in GB/T14048.11.

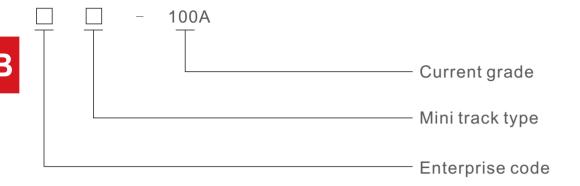
Installation conditions

ATS can be installed vertically in control cabinet or distribution cabinet. Make sure the installation distance meets the requirements in Figure 8.

B

YCQ4E/YCQ4R PC type Automatic Transfer Switch

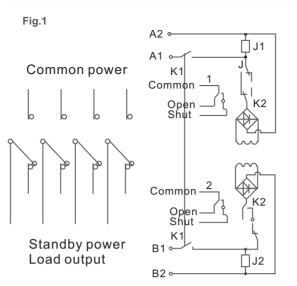
Model and meaning



Specification	100A		
Rated current le(A)	16,20,25,32,40,50,63,80,100		
Insulation voltage Ui	AC690V,50Hz		
Rated voltage Ue	AC400V,50Hz		
Classification	PC class:can be manufactured withstood without short circuit current		
Utilization category	AC-33iB		AC-31B
Pole No.	2P	3P	4P
Weight(kg)	1.7	2.1	2.6
Electrical	Life: 2000 times; Manual operation: 5000 times		
Rated short circuit current lq	50kA		
Short circuit protection device(fuse)	RT16-00-63A		
Rated impulse withstand voltage	8kV		
Control circuit	Rated control voltage Us:AC220/50Hz Normal working conditions: 85-110%Us		
Auxiliary circuit	2 relays,each with two sets of contact converter contact capacity:AC200V/50Hz le=5y		
Conversion time of contactor	< 50ms		
Operation conversion time	< 50ms		
Return conversion time	< 50ms		
Power off time	< 50ms		

Distribution Apparatus

YCQ4E/YCQ4R PC type Automatic Transfer Switch



Intemal wiring diagram

K1:manual/automatic selector switch K2,

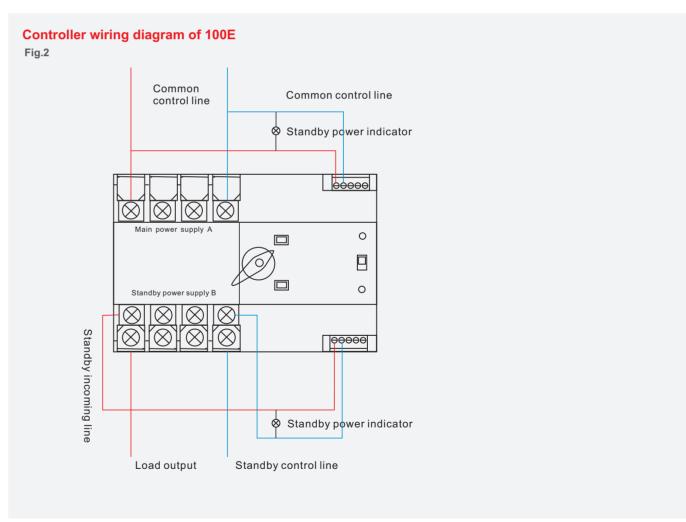
K3:internal valve position switch

J1:common 220V A power relay

J2:standby 220V B power relay

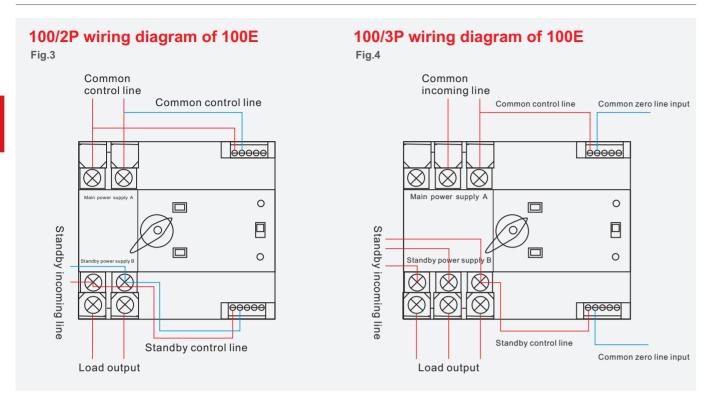
1:passive signal output of A power supply

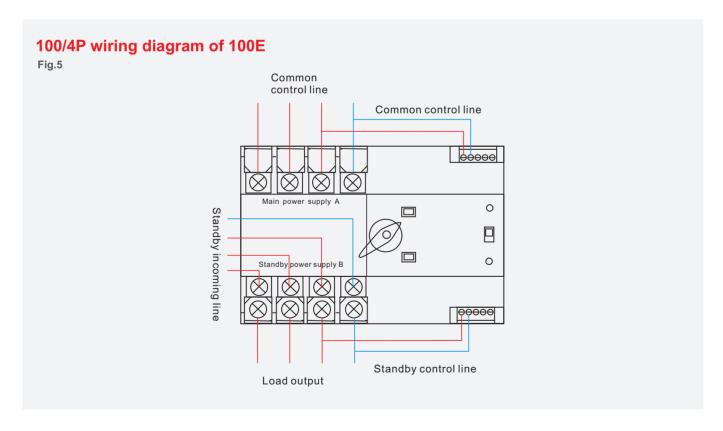
2:passive signal output of B power supply



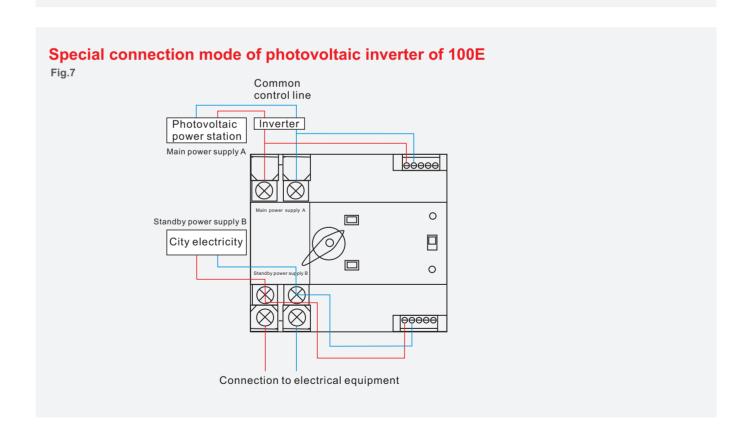
B

YCQ4E/YCQ4R PC type Automatic Transfer Switch



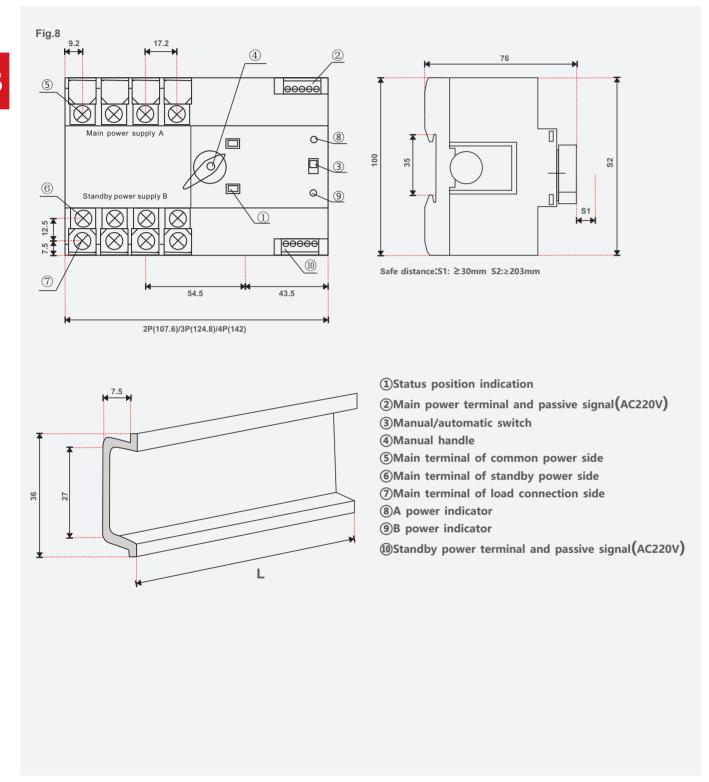


Timing switching connection mode of 100E Fig.6 Common control line Common control line Standby control line Standby control line Load output



YCQ4E/YCQ4R PC type Automatic Transfer Switch

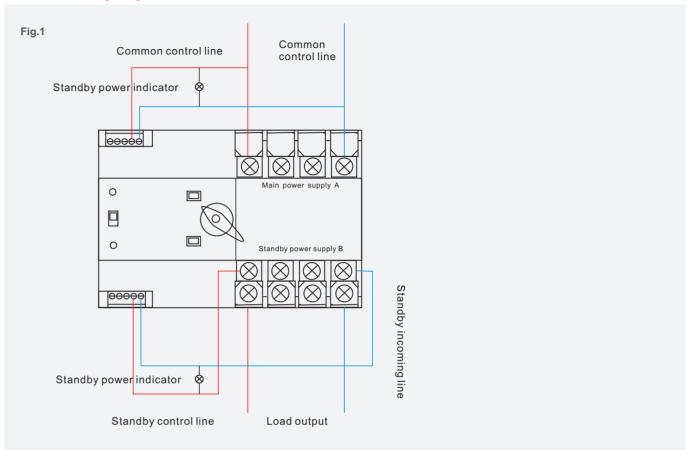
Overall and installation dimension of 100E



Distribution Apparatus

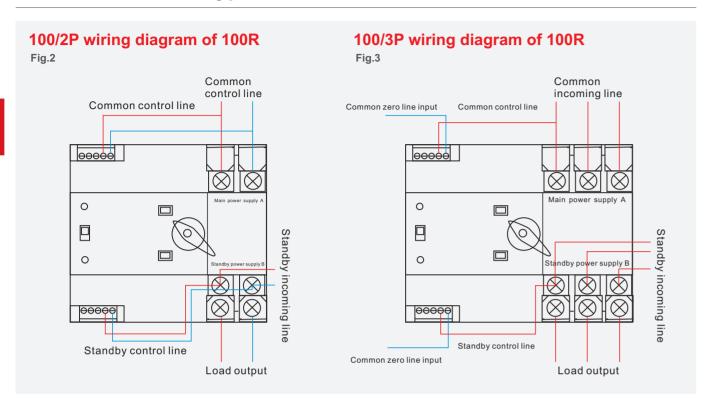
YCQ4E/YCQ4R PC type Automatic Transfer Switch

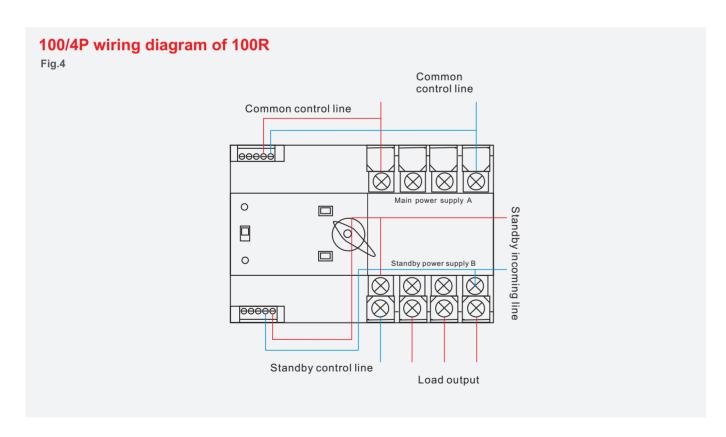
Controller wiring diagram of 100R





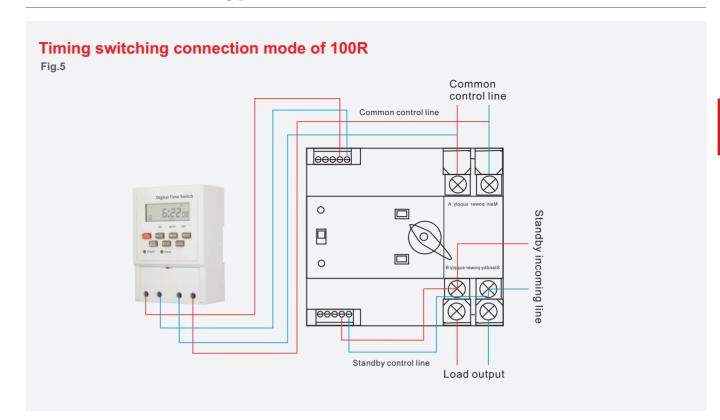
YCQ4E/YCQ4R PC type Automatic Transfer Switch

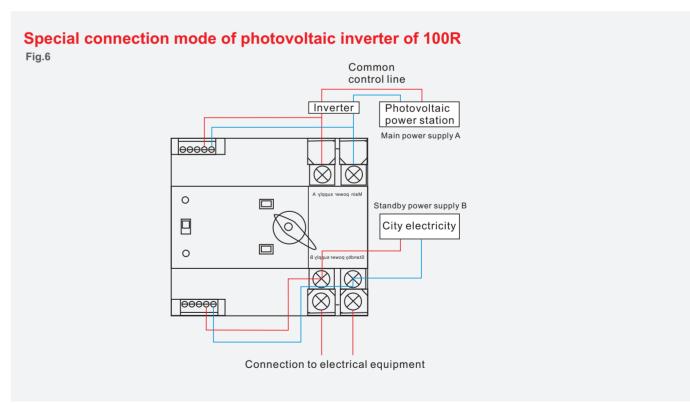




Distribution Apparatus

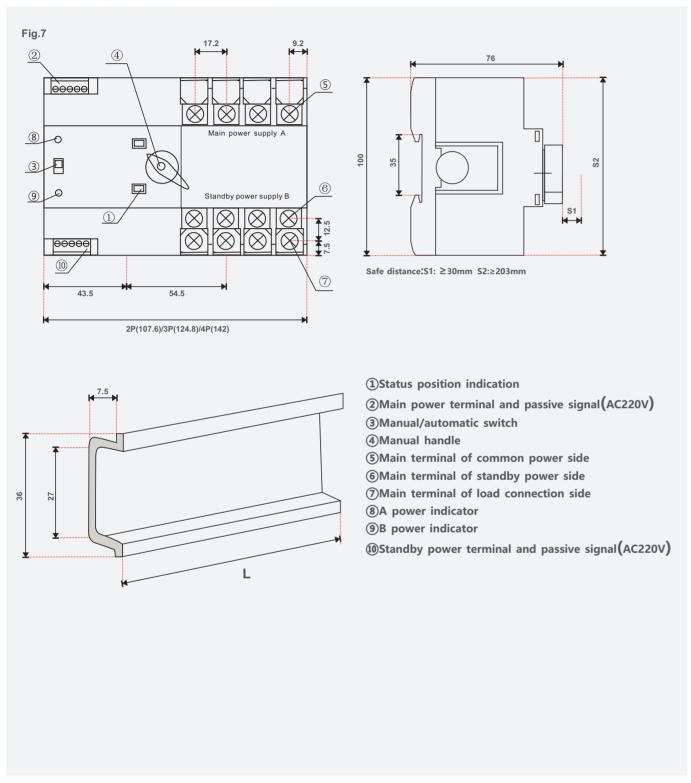
YCQ4E/YCQ4R PC type Automatic Transfer Switch





YCQ4E/YCQ4R PC type Automatic Transfer Switch

Overall and installation dimension of 100R



В