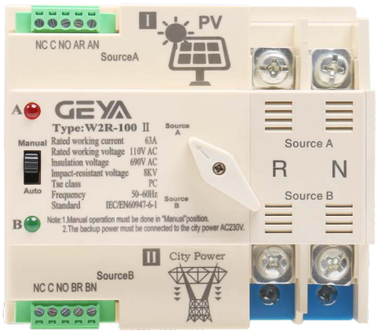


W2R

Automatic Transfer Switch

Oveview

Series dual power automatic transfer switches are newly developed miniature household power transfer switches. This switch is mainlused to test whether the normal or standby power supply is normal When the normal power supply is abnormal, the backup power supply will work immediately to ensure the continuity, reliability and safety of the power supply. This product is specially designed for home track TV installation and is specicllly used for Pz30 distribution box.

Series of automatic transfer switches are suitable for emergency power system 400V, 60A with AC rated current of 50v or 60HZ, compact structure, reliable conversion, easy installation and maintenance. long life. It is widely used in various occasions where continuous power failure is not allowed. It can be operated electrically or manually by ATS and the controller.

Complies with requirements of Low-voltage Switch Gear and Control Gearspecified by IEC 60947-6-1 and EC60947-3: functional equipment andtransfer switch equipme.

Data

Rated current Ie A	16 20 25 32 40 50 63 100		
Insulation voltage Ui	AC 690V		
Rated voltage Ue	AC 400V		
Grade	Grade PC: able to male and withstand not to break short-circuit current		
Use categoty		AC-33iB	
Pole	2P	3P	4P
Weight(kg)	0.62	0.72	0.81
Life	Electrial:2000times;Mechanical:5000times		
Rated conditional short-circuit current Iq	50kA		
SCPD(fuse)	RT16-00-63A		
Rated impulse withstand voltage	8kV		
Control circuit	Rated control voltage Us: AC220V, 50Hz Correct working condition 85%Us~110%Us		
Auxiliary circuit	AC220V/AV110V 50/60Hz		
Contact transfer time	<50ms		
Operating transfer time	<50ms		
Return transfer time	<50ms		
Off-time	<50ms		
Temperature range	-40°C ...40°C(IEC) average te,perature not more than 35°C in 24 hours		

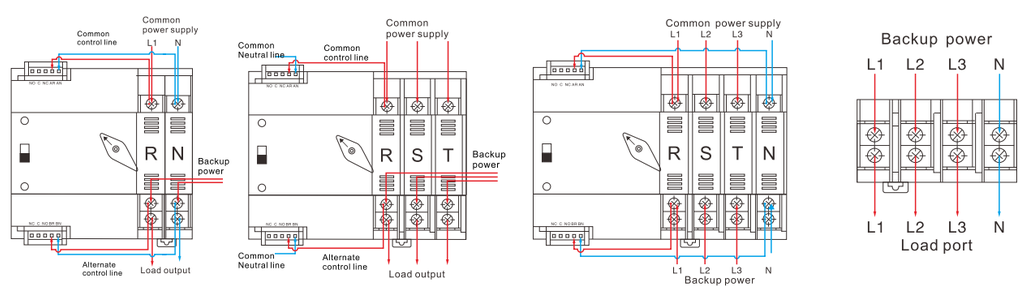
Normal working conditions and installation conditions

Ambient temperature : the upper limit does not exceed + 40℃ . The average value of 24h does not exceed + 35℃ , and the lower limit is not lower than-5℃.
The altitude is higher than the installation site and the altitude does not exceed 2000m.
When the highest atmospheric temperature is + 40℃ , the relative humidity of the atmosphere at the installation site should not exceed 50% . At lower temperatures , higher relative humidity is allowed , for example , temperature +25 ℃ , relative humidity is 90% . Due to temperature changes , occasionally measures should be taken to prevent condensation on the surface of the product.
Pollution degree The pollution degree of TSE complies with the level 3 specified by IEC . The installation category of 60947-6-1 and IEC 60947-34.5 installation category TSE conforms to the category specified by IEC60947-6-14.6 . Installation conditions can be installed vertically in a control cabinet or power distribution cabinet . Make sure : the installation distance S is as shown in the figure . 1...

Matters needing attention

Manual/automatic operation can ensure the on and off performance in electrical operation, but in manual operation, it cannot be guaranteed due to the difference in the operators on and off speed. In manual peration, excessive silver alloy loss may occur. Therefore, only after cutting off all power to check and maintain the operating system and contact information, can the selector switch be pulled to the manual position. Normally, please pull the selector switch to the electric position. When manual operation is required, pull the selector switch to the manual position. After the manual operation is completed, pull the selector switch from the manual position to the automatic position.
The control circuit TSE is excited instantly. After the conversion iS completed, the internal switch will damage the coil in the control circuit. The coil can work normally at 85%-110% of the rated working voltage. Too low input voltage may cause the coil to heat up and burn.

Wiring diagram of controller



1. (Must be connected) Take zero line and fire line from the common control incoming line to connect AR (live wire) / AN (neutral line)

2. (Must be connected) Take zero line and fire line from the backup control incoming line to connect BR (live wire) / BN (neutral line)

3. The power indication signal is passive output , and the generator signal is taken (common) and (normally closed)

4 . Connect the load end at the lower end of the (standby power supply side) , Stepped wiring

5 . There is an isolation board on the load . When wiring . first remove the isolation board, connect the load and then install the isolation board (it is recommended to connect the load first , then connect the backup power supply)

Note : Normal type wiring same as solar type . For solar type , the backup power must be connected to the city power.