Standard_ IEC60947-6-1, IEC60947-3 **Automatic Transfer Switch**

Overview

The CA2R dual power automatic transfer switches, a newly developed and innovative solution for household power transfer. These switches are designed to test the normal and standby power supply, ensuring that backup power is readily available in case of any abnormalities. Specifically designed for rail-noise power distribution boxes, this product is perfect for households looking for a reliable and safe power supply.

CA2R automatic transfer switches are suitable for emergency power systems 400v, 125A 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.

This product complies with the requirements of Low-voltage Switch Gear and ControlGear, asspecifiedbyIEC60947-6-1andIEC60947-3forfunctionalequipment and transfer switch equipment. Choose the EK2R dual power automatic transfer switchesforuninterruptedpowersupplyandpeaceofmind.

Product Model and Classification

CA-2 R/□ P1 25

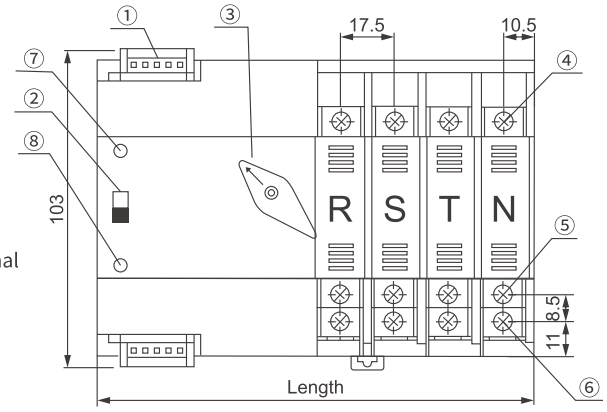
- 25 — Framecurr ent
- P1 — Pole:2- Twopoles,3- Threepoles,4-F ourpoles
- R/□ — 2RSeries
- CA-2 — Companyc ode

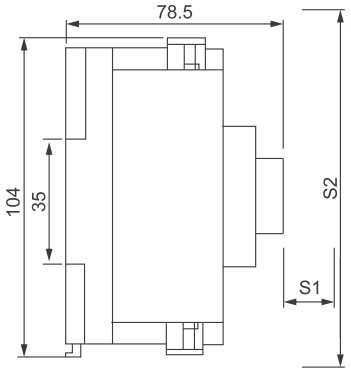
Technical Data

Rated currentIe	16,20,25,32,40,50,63,80,100,125A
Insulation voltage Ui	AC690V
Rated voltage Ue	2P:A C230;3P ,4P:A C400V
Class	PCclass:c anbeswit chedonandlo adedwithoutg eneratingshort -circuitcurr ent
Use category	AC-33iB
Life	Electrial:2000times;Mechanic al:5000times
Rated condition alshort-circuit currentIq	50kA
SCPD(fuse)	RT16-00-63A
Rated impulse withstand voltage	8kV
Control circuit	Ratedc ontrolvolt ageUe:A C220V,50HzCorr ectworkingc ondition85%Ue~110%Ue
Auxiliary circuit	AC220V/AC110V50/60Hz
Contact transfer time	<50ms
Operating transfer time	<50ms
Return transfer time	<50ms
Off-time	<50ms
Temperature range	-5°C~+40°Caver aget emperatureno tmor ethan35°Cin24hours

Contour Dimensions and Installation Dimensions

① Control power
② Selection switch (Auto/manual)
③ Manual knob
④ Normal power main circuit terminal
⑤ Altemative power main circuit terminal
⑥ Load side main circuit terminal
⑦ Power A indicator
⑧ Power B indicator



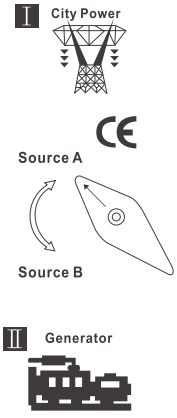


Safety distance: S1>30mm, S2>203mm

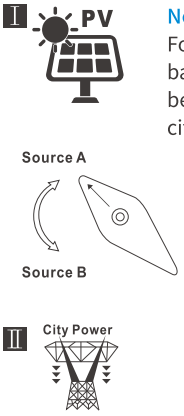
Table dimensions

Pole numbers	2P	3P	4P
Length	107.5	125	142.5

Panel Description

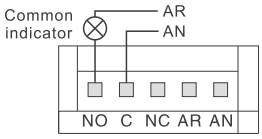


Normal type:
Source A: City power
Source B: Backup power

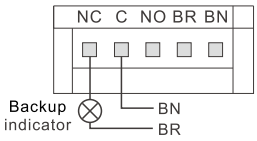


Note:
For solar type, the backup power must be connected to the city power.

Solar type:
Source A: PV (AC power by inverter)
Source B: Must be connected to the city power



C-NC:Generator start signal contact

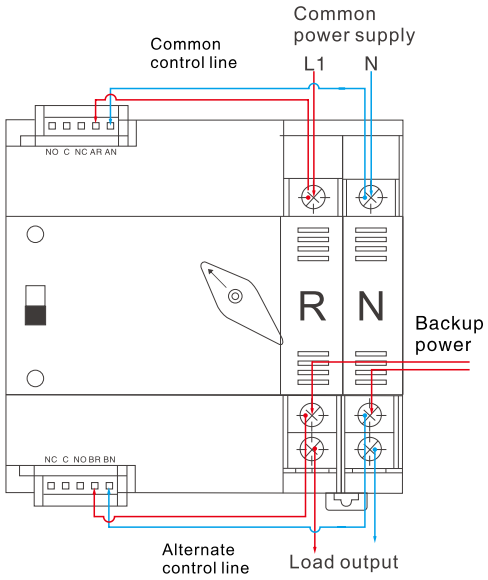


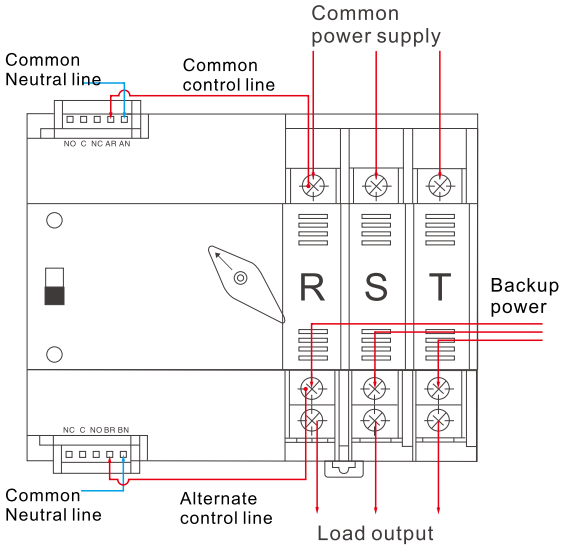
Rated control voltage Us: AC220~230V;
If the product is using under the condition of voltage less than 190V, it will burn.

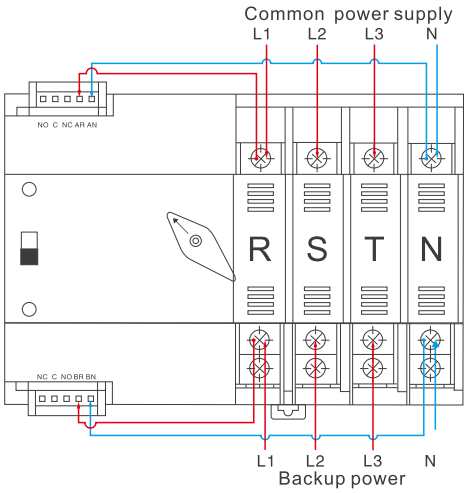
Rated control voltage Us: AC110V;
If the product is using under the condition of voltage less than 95V, it will burn.

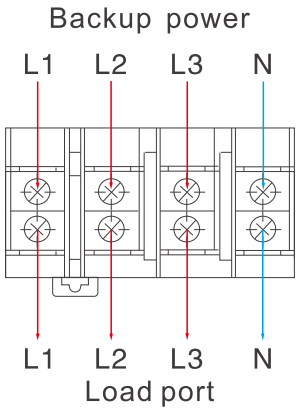
Suggestion: It is best to add over-voltage and under-voltage protectors of the circuit.

Wiring Diagram of Controller









- (Must be connected) Take zero line and fire line from the common control incoming line to connect AR (live wire) / AN (neutral line);
- (Must be connected) Take zero line and fire line from the backup control incoming line to connect BR (live wire) / BN (neutral line);
- The power indication signal is passive output, and the generator signal is taken (common) and (normally closed);
- Connect the load end at the lower end of the (standby power supply side), Stepped wiring;
- 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.