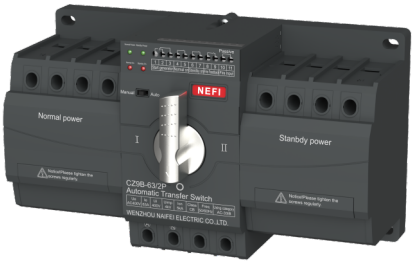
CZ9B-63(CB Class) Automatic Transfer Switch



General

CZ9B-63 ATS is suitable for AC 50Hz/60Hz, with rated working voltage of 230V/400V. It is mainly used for low-voltage power distribution and control circuits. The current rating is up to 63A. It can be used as the main switch for terminal electrical appliances, and also for controlling various types of motors, low-power electrical equipment, lighting, and other applications.

Standard: IEC 60947-6-1

Features

- **Modular design** — The actuator, transmission mechanism, and control circuit are fully independent, making maintenance and replacement simple. The CZ9B consists of two parts: the controller and the main device, with a compact structure housing two sets of circuit breakers.
- **Reliable interlock** — Mechanical interlocking adopts gear-driven design, fully preventing simultaneous closing of both power sources.
- **Compact appearance** — Space-saving structure with patented design for neat installation.
- **Anti-interference design** — Control circuit separates the working voltage and MCU sampling power supply, effectively reducing electromagnetic interference.
- **Versatile functions** — Supports generator start, fire control, fire feedback signal, passive output for main/emergency power closing, and 3-phase detection for both power sources.
- **Excellent compatibility** — Modular architecture ensures high component interchangeability and easy installation.

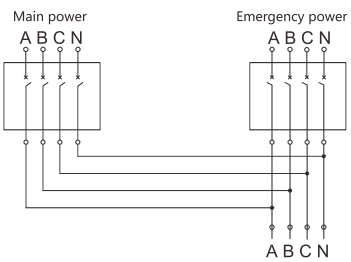
Selection

CZ9B	-	63	4	125A
Model		Shell frame	Number of poles	Rated current
ATS (CB class)		63(16~63A)	2:2P 3:3P 4:4P	16A, 20A, 25A, 32A 40A, 50A, 63A

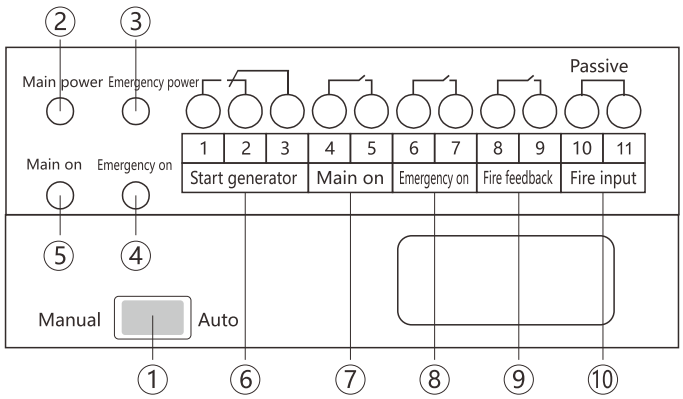
Technical Parameters

Model	CZ9B-63
Rated current(A)	6,10,16,20,25,32,40,50,63
Pole	2P,3P,4P
Rated working voltage(V)	Single phase 230
	Three phase 400
Rated insulation voltage Ui	500V
Rated impulse withstand voltage Uimp	4kV
Rated short-circuit making capacity Icm	7.5kA,Power-on time 0.1s
Rated making and breaking capacity Icn	5kA,1.05Ue,cosφ=0.65
Mechanical life	10000 times
Electrical life	6000 times
Transfer action time	≤5s
Undervoltage/Overvoltage action value	165/270±5V

Wiring Diagram Principle



Control Panel Description



1 **Auto/Manual Switch** – Right = Auto mode; Left = Manual. Manual mode requires handle operation.
2 **Main Power Indicator** – When main voltage is normal, the indicator is ON. It turns OFF when phase is missing, flashes at 10Hz for overvoltage, and at 2Hz for undervoltage.
3 **Emergency Power Indicator** – When emergency voltage is normal, the indicator is ON. It turns OFF when a phase is missing, flashes at 10Hz for overvoltage, and at 2Hz for undervoltage.
4 **Emergency ON Indicator** –When the emergency circuit breaker is closed, this indicator on. Flashes slowly at 2Hz when the emergency circuit breaker trips.
5 **Main ON Indicator** – When the main circuit breaker is closed, this indicator on. Flashes slowly at 2Hz when the main circuit breaker trips.
6 **Terminal 1, 2, and 3 are start-generator output terminals** – When the main power is normal, ports 3 and 2 are OFF, while ports 3 and 1 are ON. When the main power is abnormal, ports 3 and 2 are ON, and ports 3 and 1 are OFF. It is recommended to connect normally closed contacts to ports 3 and 2.
7 **Terminals 4–5** – Main power on state passive output port.
8 **Terminals 6–7** – Emergency power on state passive output port.
9 **Terminals 8–9** – Fire feedback: It is a passive output port. When the fire signal is connected and the product is powered off successfully, this port is closed.
10 **Terminals 10–11** – Fire input: Passive input. When this port is short-circuited, the switch moves to the OFF position, and the main/emergency power indicators flash alternately. To exit fire mode, toggle the “Manual/Automatic” switch once, then return it to “Automatic”.

Notice: If the Main On or Emergency On indicator is flashing, manually check that the load side is normal. Then toggle the Manual/Auto switch to clear the fault. In manual mode, rotate the handle to open and close the circuit once.

Dimensions and Installation Sizes(mm)