# ELPRO
# ATS-63A-2P
## AUTOMATIC TRANSFER SWITCH

## DESCRIPTION

The ATS-63A-2P changeover switch is designed to transfer loads automatically and manually from main power source to reserve source in f 1-2 phase applications.

## FEATURES

- Design based on 63A automatic circuit breakers;
- Motorized or manual switching;
- 1-2 phase operation;
- High reliability due to stable positions of the change-over mechanism energized during switching process only;
- Internal position indication lamps and external lamp outputs;
- Built-in mechanical and electrical interlocking;
- Automatic mode ON/OFF switch;

## TECHNICAL SPECIFICATIONS

- Voltage: **230V (1 phase), 120/240V (2 phase).**
- Voltage frequency: **50/60Hz.**
- Switching poles: 2
- Phase current: up to 63A
- Working temperature range: от -0'C до +60'C
- Humidity: up to 50%
- Installation type: vertical
- Power loss: not more than 5W;
- Switching time: 3-4 sec
- Category: CB
- Weight: 2.3 kg

## INPUTS AND OUTPUTS

- Normal inputs/outputs: Phase + Neutral
- Reserve inputs/outputs: Phase + Neutral
- External indication lamp outputs;
- Normal source control inputs (red & blue wire pair #1)
- Reserve source control inputs (red & blue wire pair#2)

## OPERATION

Device monitors normal and reserve source phase voltages.
In case if there is a normal source phase voltage, the device connects the load circuits to the normal power source inputs.
If the normal phase voltage is lost, the device comes to a waiting mode keeping the load circuits connected to the normal power source inputs.
In case if there is the reserve source phase voltage (while normal source phase voltage is absent), the device connects the load circuits to the reserve power source inputs.
If the reserve phase voltage is lost, the device comes to a waiting mode keeping the load circuits connected to the reserve power source inputs.
In case if the normal source control phase voltage is recovered, the device connects the load circuits to the normal power source inputs independently on having the reserve phase voltage or not.
If the Auto mode switch in the OFF position, you could switch the load circuit connection between normal and reserve power source inputs manually.
Normal power source inputs always have the priority.

## TROUBLESHOOTING

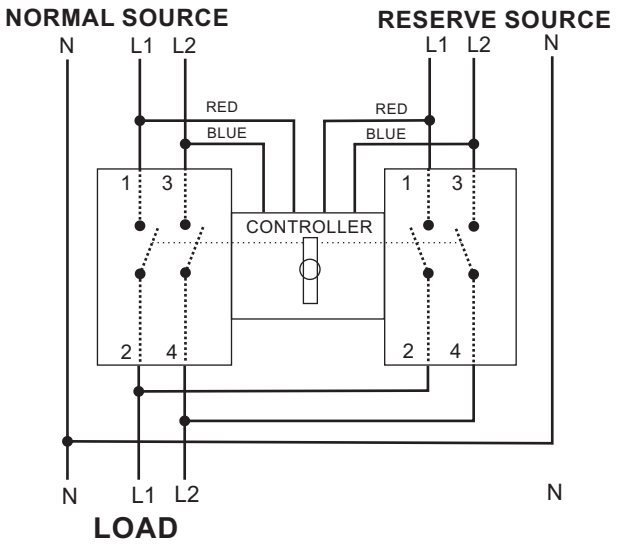
If the load circuits are not powered while having the active power supply inputs energized, it may be caused by the overload protection. To solve this failure, please turn the auto mode switch to the OFF position, then check your load circuits and phase sequence. After the overload problem is solved, rotate the manual switch handle on both sides subsequently to re-activate the connection. Then turn the auto mode switch to the ON position again.
In case if the device does switch automatically, please check these items:
-the automatic mode switch (should be the ON position).
-voltage on the device source phases .
-control wires (yellow-blue pairs) connection to the normal and reserve power source inputs.
-normal and reserve control input fuses (on the device front side).

## AUTO MODE OPERATION MAP

| NAME | STATE #1 | STATE #2 | STATE # 3 | STATE #4 |
|---|---|---|---|---|
| Normal Power Source | ON | ON | OFF | OFF |
| Reserve Power Source | ON | OFF | ON | OFF |
| Load connection Switch position | Normal Power Source | Normal Power Source | Reserve Power Source | Last position |

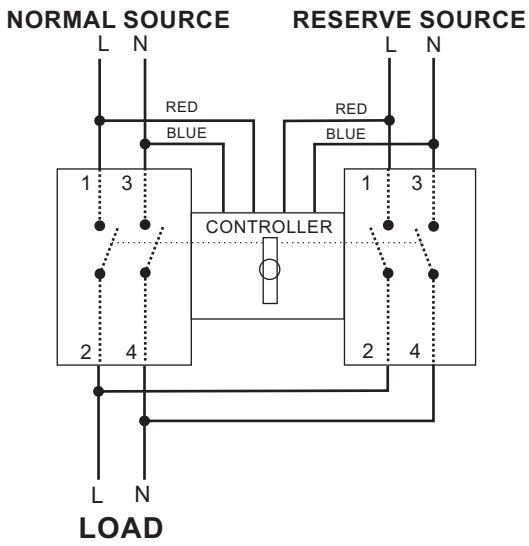
# CONNECTION DIAGRAMS

## 120/240 VAC 2 PHASE CONNECTION



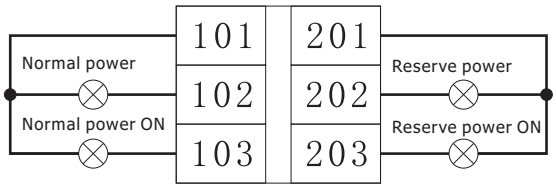

L1,L2 - phase wires;
N - neutral wires;
Red + Blue - control wire pairs.

## 230 VAC SINGLE PHASE CONNECTION



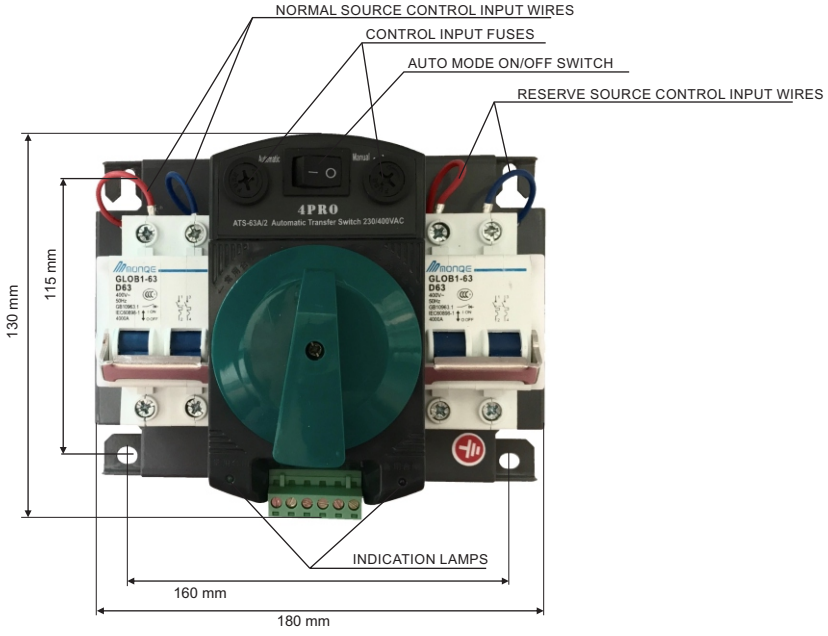

L - phase wires;
N - neutral wires;
Red + Blue - control wire pairs.

## EXTERNAL INDICATOR LAMP CONNECTION




Note: External indication lamps must be 230VAC.

# CONTROLS AND DIMENSIONS




Height: 115 mm