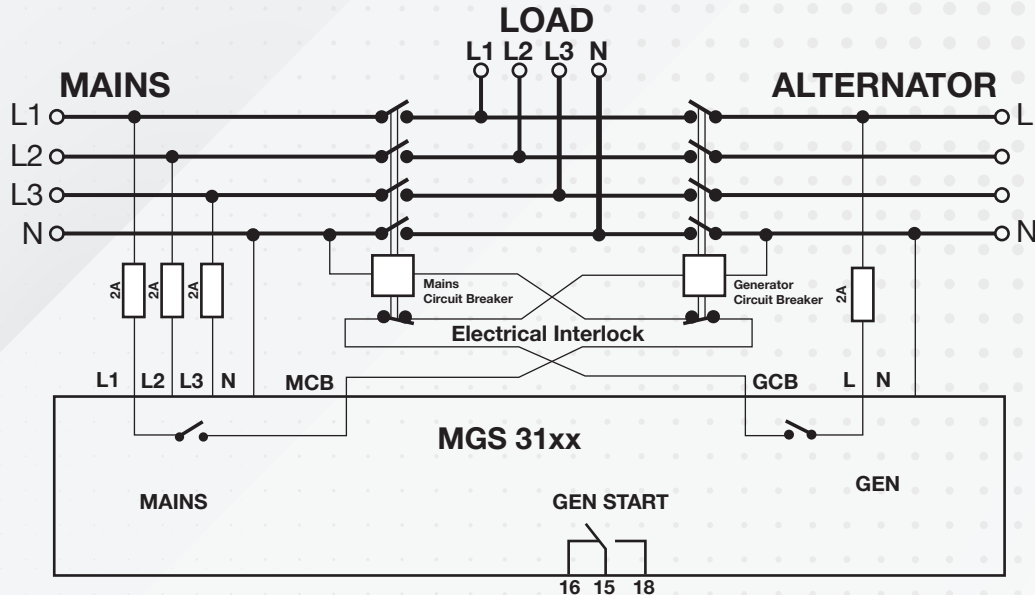


## MGS Series Automatic Transfer Switch

The device is designed to control the transition between the mains and the generator in case of low voltage and phase sequence error (Optionally) in the 3-phase electrical network.



### Product Selection Chart

Product Name	Stock Code	Control Parameters
MGS 3100	270460	Low Voltage + Phase Loss
MGS 3110	270461	Low Voltage + Phase Loss + Phase Sequence

### Operation Algorithm

If the device is energized by the mains, the "Power" LED is active, if it is energized by the generator, the "GEN Power" LED is active.

#### If all mains voltages are at appropriate values;

"MCB" relay becomes active and the system continues to operate over the mains. "MCB" and "Mains OK" LEDs on the device become active.

#### If any mains voltage falls below the low voltage threshold value or a phase sequence error occurs (optional);

In order to disconnect the system from the mains, the "MCB" relay switches to the open contact position. The "GEN START" relay contact is switched to the closed contact position, enabling the generator to operate. At the end of the time setting with the "GEN Delay" knob on the device, the "GCB"

relay is closed, enabling the system to operate with the generator. When the "GCB" relay is closed, the "GCB" LED becomes active.

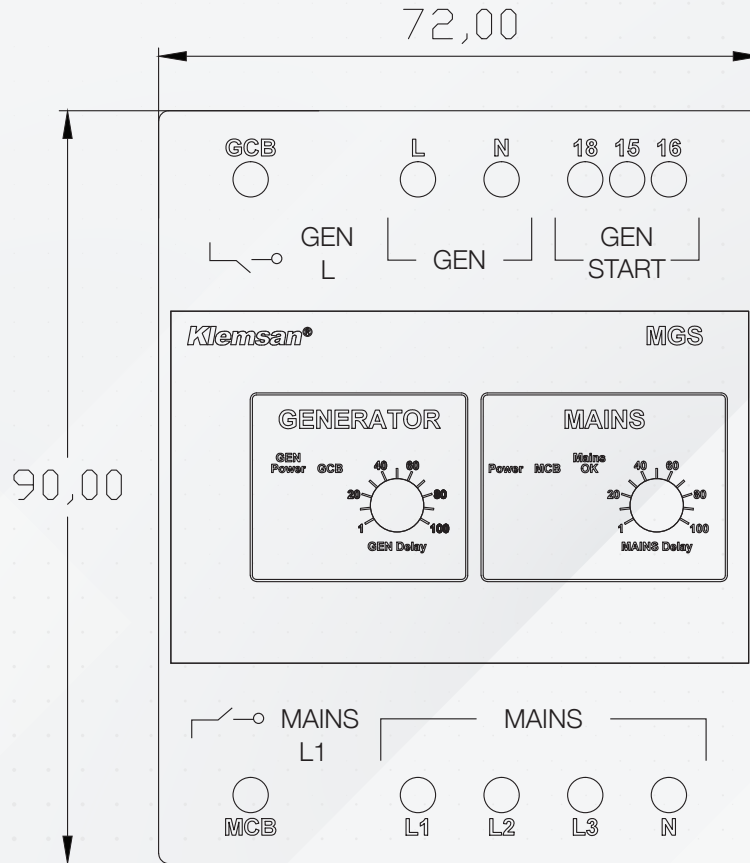
#### When the mains voltages reach the appropriate values;

"GCB" relay and "GEN START" relay switch to open contact state in order to disconnect the system from the generator. When the "GCB" relay switches to the open contact position, the "GCB" LED becomes passive.

"Mains OK" LED becomes active, indicating that there is no network problem.

At the end of the time setting with the "MAINS Delay" knob on the device, the "MCB" relay is closed, allowing the system to operate with the mains. When the "MCB" relay closed, the "MCB" LED becomes active.

## General Appearance and Dimensions



## Technical Specifications

- Supply Voltage (Mains & Generator): 85-300 V AC
- Frequency (Mains & Generator): 50/60 Hz
- Delay (Network & Generator): 1-100 sec
- Low Voltage Threshold: 150V AC
- Hysteresis: 9V
- Overvoltage Category: CAT III
- Screw Tightening Torque: 0.5 Nm
- Cable Stripping Size (Min & Max): 8 mm-9 mm
- Cable Cross Section: 2.5 mm<sup>2</sup> (Copper conductor only)/ 14 AWG Single core/ Multicore
- Power Consumption: <13 VA
- Maximum Switching (MCB & GCB & Remote Start): 16A / 250V AC / 2000VA
- Operating Temperature: -20 / +60 °C
- Dimensions: 72mm (design in accordance with DIN Norm)
- Weight: 180 g
- IP Protection: IP20

