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TECHNICAL SPECIFICATIONS ATS-100A

Manufacturer: ALFA GENERATORS®

1. System Description

Automatic load transfer switch between the main power grid and a generator set. Designed to guarantee continuous power supply in case of grid failure.

2. Power and Safety Specifications

- **Capacity:** 100 Amps.
- **Switching Components:** Equipped with high-quality contactors or ABB brand motorized switch .
- **Mechanical Safety:** Includes **mechanical interlocking** for the contactors, which physically prevents the simultaneous connection of both power sources.
- **Operator Protection:** Physical protection against direct contact throughout the power section.

3. Construction and Cabinet

- **Dimensions:** 600 mm (Height) x 400 mm (Width) x 250 mm (Depth).
- **Cabinet:** Metal wall box with epoxy paint finish.
- **Degree of Protection: IP55 or IP65** rating depending on the model, ensuring resistance against dust and water.
- **Internal Design:** It has a strict **physical separation** between the control part (electronics/switching) and the power part (power wiring/contactors).

4. Interface and Control

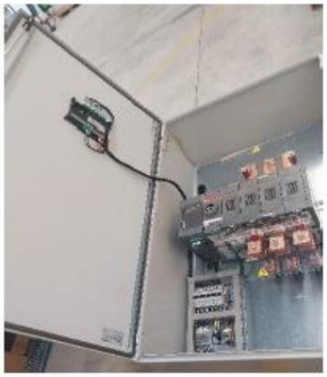
- **Control Unit:** Intelligent module mounted on the door for monitoring network parameters and transfer management.
- **Operating modes:** Configurable in Automatic mode (autonomous management) or Manual mode (maintenance and testing).

5. Connections and Terminaling

The equipment includes a terminal system optimized for quick installation:

- **Power Terminals:** Specific terminals for the mains input, input of Generator Set (GE) and output to the Load.
- **Control Terminal Block:** Connection via terminal block prepared for **8-wire cable,** facilitating the communication of start and control signals with the generator.

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CONFIGURATION OPTIONS:

