



ATS 115

“Automatic Transfer Switch” Multifunctional controller

- Micro-processed controller able to manage the automatic switch between two supply sources, both mains and genset(s)
- Automatic and programmable management of the changeover between the two supply sources
- True RMS measure for Current and Voltage of both sources
- Measure of Active power and power factor
- Measure of Frequency and Power for both sources
- 8+3 programmable digital Inputs (insulated)
- 8 programmable digital Outputs
- USB Port and ETHERNET Port (for ATS115^{Plus})
- Graphic display with single-line diagram representation
- Real Time Clock
- Events and data recording



General info

Micro-processed controller for the automatic and manual switch between two supply sources (A or B).

ATS115/ATS115^{Plus} is a device suitable to manage the switch of multiple plant configurations. **A** or **B** supply sources can be set as "Mains" or "Genset" in any possible combination.

The programmable circuit parameters allow its use for standard or specific applications. They can be set by means of the free software **BOARD PRG**, downloadable from the website, or directly managed using the controller keyboard.

ATS115, in its two versions, has a **graphic display** that allows to immediately view the status of the switch, of the measures and of possible alarms occurred.

Another function that characterizes ATS115/ATS115^{Plus} is the **possibility of measuring the Power supplied by A or B source or absorbed by the load**. In this way, the three CTs must be placed where the power measure is required. There is an energy counter for each supply source. If the power is measured on the load, only the supplying counter will be increased.

A time function allowing to switch to the desired source at pre-set time is also available. Moreover, it is possible to inhibit the start of the genset(s) in some time bands.

All events recording is easily accessible through the controller graphic display.

ATS115 and ATS115^{Plus} are able to support different devices that allow the remote control of the switch from remote.

Measures

Source A Voltage (mains or genset)

L1-N, L2-N, L3-N, L1-L2, L2-L3, L3-L1
True RMS measure.

Lx-N max. voltage < 300Vac cat. IV

Source B Voltage (mains or genset)

L1-N, L2-N, L3-N, L1-L2, L2-L3, L3-L1
True RMS measure.

Lx-N max. voltage < 300Vac cat. IV

A or B Currents or towards load

L1, L2, L3, N

True RMS measure.

Rated current: /5A and /1A

Overload of measure current : 4 x 5Aac (sinusoidal)

A or B Frequency

Resolution = 0.1 Hz

Accuracy = ± 50ppm, ±35ppm/°C (typical)

Battery Voltage of Controller

Resolution = 0.1V

A set of high efficiency LED is used for signalling the statuses of the Generator Set and of potential alarms occurred. Secondary alarms are represented by their corresponding display code.

Status and Signals

- Source A live (Mains or Genset)
- Source B live (Mains or Genset)
- Source A circuit breaker closed
- Source B circuit breaker closed
- Source A or B Start/Stop
- Remote Start
- Battery failure (Max/Min Voltage)
- Max. Controller Temperature
- Emergency Stop
- Clock set up failure

Protections

- Group "X" not stopped
- Group "X" out of threshold
- Source A or B operation conditions not reached
- Source A or B sequence phase failed
- Source A or B damaged
- Source A or B circuit breaker not open
- Source A or B circuit breaker not closed

Inputs, outputs and aux. functions

- N.8 Digital Inputs
- N.3 Analogue Inputs, also available as non-isolated digital Inputs
- N.2 Programmable relay Outputs
- N.4 Insulated digital Outputs
- N.2 Programmable relays (10A), usually used for the switch management

All Inputs and Outputs are freely programmable

Additional characteristics

Real Time Clock

Events and data recording

Remote switch and remote start and stop

Embedded alarm horn

Signals and Alarms

Communication

ATS115

- N. 1 USB Port to program the controller through PC

ATS115^{Plus}

- N.1 USB Port
- N.1 Serial port RS232 Modbus RTU
- N.1 Isolated serial port RS485 Modbus RTU
- N.1 RJ45 Port as Ethernet interface TCP/IP
- CANBUS J1939 Interface

Optional:

- N. 1 RS232 Serial Port Modbus RTU
- N. 1 Insulated RS485 Serial Port Modbus RTU
- N. 1 Ethernet RJ45 Port Modbus TCP/IP
- RS232/485/USB Converter
- GSM/GPRS/GPS Modem (REWIND)
- Direct management Modem PSTN/GSM, data call in case of alarm and warning. Statuses and Commands via SMS.
- Supervisor Software for Windows

ATS115 and ATS115^{Plus} are **multilingual devices**. The selectable languages are: English, Italian, French, Russian and Portuguese/Brazilian.

Other Technical data

Supply voltage: 7...32 Vdc

Power consumption: typically less than 2W (Auto mode, Stand-by, AMF active, LCD Lamp Saving active)

Genset rated frequency 50Hz or 60Hz

LCD: transfective with LED backlight

Operating temperature: -25 °C to 60 °C

Protection degree: IP65 (gasket included)

Weight: 1050g

Overall dimension: 244 (W) x 178 (H) x 40 (D)

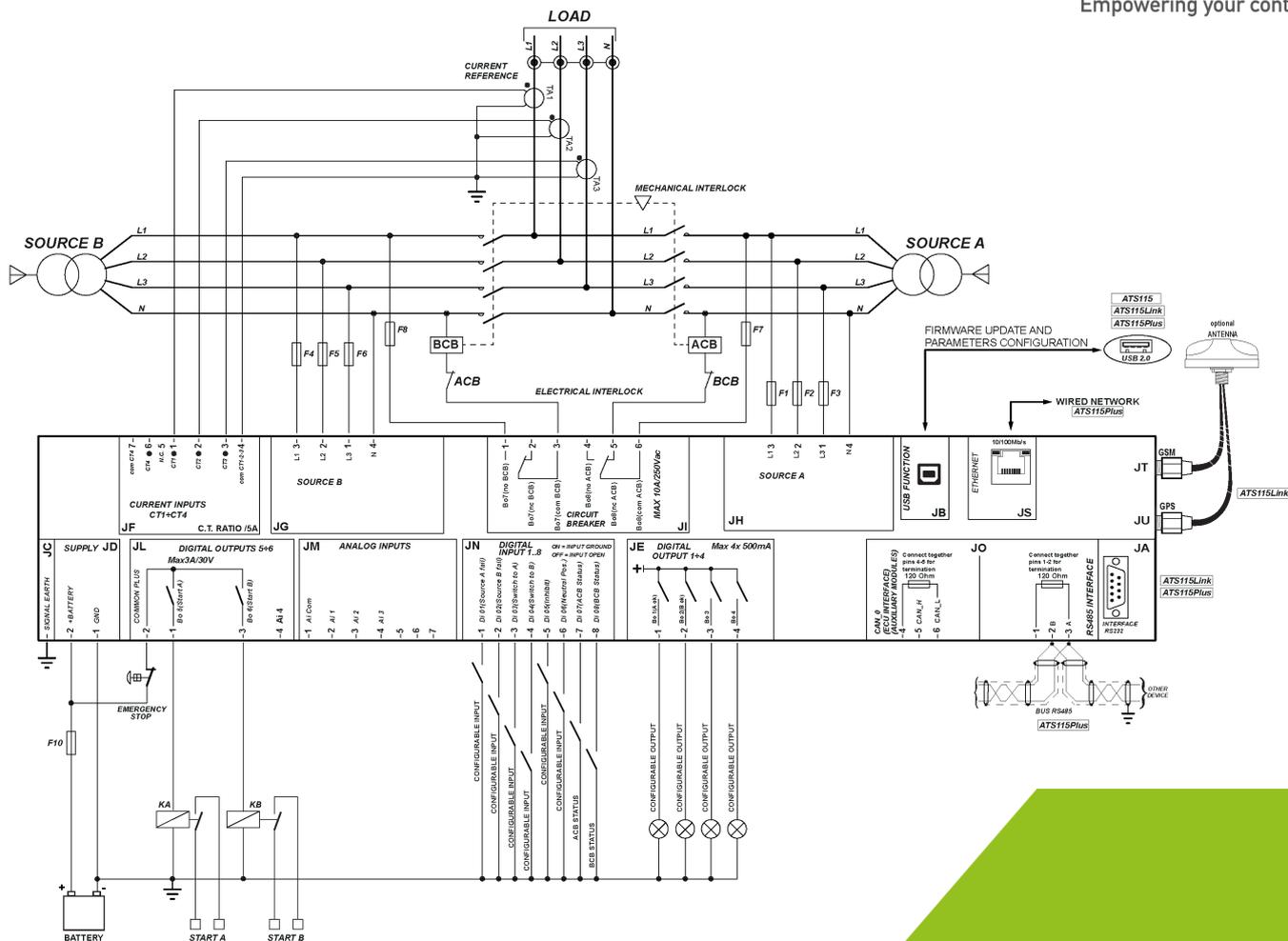
Panel cut-out: 218 x 159 (W x H)

Graphic display dimensions: 70 x 38 mm - 128 x 64 pixel

EMC: compliant with EN61326-1

Safety: built in compliance with EN61010-1

A tropicalized version for harsh environment is available on demand.



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