AUTOMATIC TRANSFER SWITCH CONTROLLER ATL 500



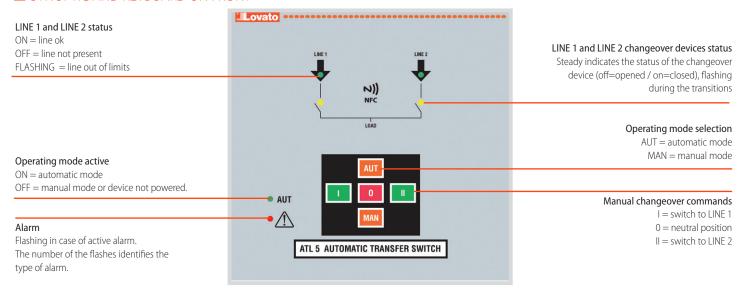


AUTOMATIC TRANSFER SWITCH CONTROLLER ATL 500

ATL 500 is a **basic** and **ready to use** automatic transfer switch controller for the automatic or manual switching of the load from a MAIN LINE to a stand-by or emergency SECONDARY LINE and vice versa. It monitors two **three phase voltage inputs** coming from two sources and it connects to the output the line that is within the limits. It can be used in three-phase with neutral, two phase or single phase systems. It can control **contactors** or **motorized changeover switches** to perform the transfer between the lines.

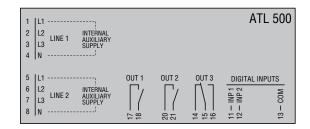
The **synoptic on front** with LEDs provides a simple and clear visualization of the status of the ATS system. From the push buttons on the **frontal keyboard** it is possible to select the operating mode (automatic or manual) and command the manual switching of the load in position I (line 1), 0 (neural position, load not supplied) or II (line 2) directly from the push buttons on the keypad without need to program any setting on the controller. The **NFC connectivity** allows to configure the parameters of the controller in a fast and intuitive way directly from your smartphone with LOVATO NFC App. On the back of the ATL 500 **two potentiometers** are also present for the manual setting of line presence delays or tripping delays for the protection thresholds.

■ SYNOPTIC AND KEYBOARD ON FRONT



■ SELF-SEEKING POWER SUPPLY

The **self-seeking power supply** allows the automatic selection of the best available line for the internal supply, taken directly from the two measuring inputs (rated voltage 110...240VAC L-N), without need of an external circuit or dual power supply module for the selection of the power for the auxiliary supply.



POTENTIOMETERS

ATL500 is provided with two potentiometers on the back, one for each line (LINE 1 and LINE 2), which can be used for the following functions:

- setting of the **line presence delays** (default setting)
- setting of the tripping delays of the protection thresholds

The delays can be adjusted between 0 and 60 seconds. The function of the potentiometers can be modified with the LOVATO NFC App.



■ CONTROL FUNCTIONS OF THE LINES

For each line, the ATL 500 monitors the status of the **voltage and the frequency** to detect if the line is available and all the parameters are within the correct limits.

The following **controls** are performed:

- phase sequence and phase loss
- minimum and maximum voltage
- voltage asymmetry
- minimum and maximum frequency.

The tripping thresholds and delays of ATL 500 already have default settings.

If necessary, it is possible to adjust these values using the LOVATO NFC App.



■ NFC CONNECTIVITY

ATL 500 is provided with built-in **NFC connectivity** for the programming via Android smart devices (smartphone and tablets) with the **LOVATO NFC App** in a simple, fast and innovative way, which does not need any connection cable and is able to operate even without power supply on the controller.

With the LOVATO NFC App it is possible to configure:

- system parameters: rated system voltage, rated frequency, type of wiring, voltage control mode, etc.
- password for the protection of the access to the settings
- changeover settings: priority line selection, interlock times, feedback delays, etc.
- protection thresholds and tripping delays: min/max voltage, min/max frequency, phase sequence, asymmetry, etc.
- function of the programmable digital inputs and outputs
- function of the potentiometers
- · alarms properties.











How to order



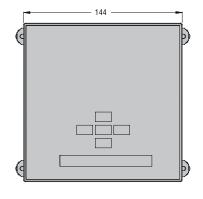
ORDER CODE	DESCRIPTION
ATL 500	Automatic transfer switch controller with NFC technology and synoptic, for 2 power sources with three-phase control, (144x144mm/5.7x5.7"), self-seeking power supply 110240VAC
EXP8001	IP65 gasket seal

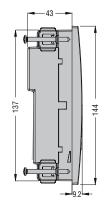
ATL 500

Operational characteristics

- self-seeking power supply from the two measurement inputs (L1-N) 110...240VAC
- voltage measurement inputs:
 - rated voltage: 110...240VAC L-N / 190...415VAC L-L
 - operative range: 90...300VAC L-N / 155...519VAC L-L
- rated frequency: 50/60Hz
- 2 programmable digital inputs
- 3 programmable relay outputs:
 - 2 each with 1 normally open contact (NO SPST) rated 8A 250VAC
 - 1 with changeover contact (NO/NC SPDT) rated 8A 250VAC
- operating temperature: -30...+70°C
- flush-mount housing: 144x144mm
- IEC degree of protection: IP40 on front, IP65 with optional gasket seal EXP8001; IP20 at rear.

Dimensions [mm]





Certifications and compliance

Certifications obtained: EAC, RCM.

Compliant with standards: IEC/EN 61010-1, IEC/EN 61010-2-030, IEC/EN 60947-1, IEC/EN 60947-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3.

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ENERGY AND AUTOMATION

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