

## AVR BL4-U SINCRO 115V/230V/400V

Reference: AVR BL4-U



## SYNCHRO AVR BL4-U 115V/230V/400V

AVR BL4-U SINCRO is an Automatic Voltage Regulator, a device capable of stabilizing the output voltage of a generator set to power electronic equipment.

The AVR BL4-U is a phase-controlled half-wave thyristor type and is part of the alternator excitation system.

In addition to adjusting the alternator voltage, the SINCRO AVR BL4-U circuit includes the under-speed protection features. The excitation power comes directly from the alternator terminals.

Positive residual voltage accumulation is ensured by the use of efficient semiconductors in the power supply circuit of AVR BL4-U.

The AVR is connected with the main stator windings and exciter field windings to provide control to the output voltage circuit.

In addition to being powered by the main stator, the AVR BL4-U also derives a sample voltage from the output windings for voltage control. In response to this sample voltage, the AVR BL4-U controls the exciter field power supply to the exciter field, and then to the main field, to keep the machine output within the specified limits, compensating for the load, speed, temperature and alternator power supply.

A frequency measuring circuit continuously monitors the alternator output and provides protection against under-speed output, reducing the output voltage proportionally to the speed below a preset threshold. A manual adjustment is provided for factory setting of the under frequency threshold, (UF). This can be easily changed to 50 or 60 Hz with two switches.

A remote voltage potentiometer is provided for connection, which allows the user to alternator output control.

The AVR BL4-U is also equipped with a fuse which is used to limit the input power to protect the alternator.

### TECHNICAL FEATURES SYNCHRO INVERTER AVR BL4-U

Depth: 75.5 mm  
Height: 45.6 mm  
Width: 125.5 mm  
Weight: 0.5kg

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Images and technical data are not binding and subject to change by the manufacturer.

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## Technical Sheet

Product type

Scheda AVR