



# MECC ALTE DSR AUTOMATIC DIGITAL VOLTAGE REGULATOR

## Product description:

### MECC ALTE DSR AUTOMATIC DIGITAL VOLTAGE REGULATOR

Regulator Mecc Alte DSR fully digitally controlled and is mounted standard for voltage control on MECC ALTE ECO and ECP alternators.

Connections on the DSR are via 15 fast on/fast off connectors which speed up the connection process. This is and particularly useful if a 12-wire machine needs to be reconnected to a specific voltage. This regulator is compatible with all our ECO and ECP series machines and can be used standard with the MAUX system and with the PMGs, so there is no need to change regulator. Its standard reference is; single-phase.

Connection via external communication card (DxR or DL1), PC connection (RS232 or USB) or PLC connection (RS485 via MODBUS) is available. This allows you to change the regulator settings, monitor real-time performance (Voltage, Frequency or DSR status), or download the alarm report (communication software is available from Mecc Alte).

## TECHNICAL SPECIFICATIONS MECC ALTE DSR

Power supply:  $40 \div 270$  Vac

Frequency operating range:  $15 \text{ Hz} \div 72 \text{ Hz}$

Regulation accuracy:  $\pm 1\%$

Maximum continuous output current: 5 Adc

Ambient temperature:  $-25^{\circ}\text{C} \div +70^{\circ}\text{C}$

Regulation True RMS or average value measurement:  $70 \div 280$  Vac

Transient voltage drop and overvoltage: within  $\pm 15\%$

Voltage recovery time: within  $\pm 3\%$  of the set value in less than 300 msec

Transient overvoltage on starting: less than 5% with respect to the nominal voltage

Sensing: Single-phase

Parameters (software programmable): VOLT, STAB, AMP and Hz settable via trimmers (default)





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50/60 Hz via “jumper” (default)

### Features & DSR

- Possibility analogue remote control of the output voltage or with a 10Kohm linear potentiometer
- Low speed protection; with adjustable threshold and slope
- Overvoltage and undervoltage alarm
- Excitation overcurrent protection with delayed trip
- Management of transient short circuits (starting of asynchronous motors)
- Open collector output (not isolated) for protection intervention signaling with programmable activation with respect to the individual alarms, possibility of of intervention delay and selectable active level
- Storage of anomalous operating conditions (type of alarm, number of events, duration of the last event, sum of times)
- Memorisation of board operating time (starting from Firmware version 11)
- USB communication interface (with optional USB2DxR module)

Are you looking for a regulator with different technical characteristics? [HERE](#) you can find the area dedicated to Mecc Alte voltage regulators or those of other specialized brands.

Non-binding images and technical data.

### Product features:

Frequency (Hz): 50 / 60

Temperature range for use (°C): -25 +70

Type of regulator: Voltage

Voltage regulator: AVR

Weight (Kg): 1

Supply Voltage: 40 ÷ 270 Vac

Precision of voltage regulation:  $\pm 1\%$

