



## MECC ALTE DER1 AUTOMATIC DIGITAL VOLTAGE REGULATOR

Reference: 0391600170

### MECC ALTE DER1 AUTOMATIC DIGITAL VOLTAGE REGULATOR

Regulator Mecc Alte DER1 fully digital voltage-controlled for synchronous alternators, prepared for stand-alone operation and calibration.

Born as an evolution of the Mecc Alte DSR, it has expanded its functions by adding three-phase/single-phase sensing with automatic setting, greater flexibility and greater flexibility. in remote input from parallel controllers, soft start routines and a voltage accuracy of 0.5% in static conditions.

The connectors for the connections to and from the electric generator and the communication module are located on the DER1 regulator. The unit of supervision can be made up of a personal computer, another "synoptic" device, or both; it does not have the real-time function, but allows the programming and display of all the functional parameters of the DER1.

Since it is designed to control many types of generator, the regulator must be suitably configured to obtain the best performance; the settings are mostly stored in an integrated non-volatile memory (EEPROM).

#### TECHNICAL FEATURES MECC ALTE DER1

Power Supply: 40 ÷ 270 VaC

Frequency operating range: 12 Hz ÷ 72 Hz

Regulation accuracy: ± 1%

Regulation accuracy (stabilized conditions): ± 0,5%

Maximum continuous output current: 5 Adc

Ambient temperature: -25°C ÷ +70°C

Adjustment range: 75 ÷ 300 Vac

Transient voltage drop and overvoltage: within ± 15%

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

Sensing: Single-phase or Three-phase

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

50/60Hz via "jumper" (default)

#### Features & Mecc Alte DER1

- Power connections on 20-pole Fast-On connector
- Power winding protection with 5A fuse (rapid)
- Analog remote control of output voltage via external signal 0 ÷ 2.5 Vdc or -10 ÷ 10 Vdc
- Remote control of the output voltage via external potentiometer (25Kohm or 100Kohm)
- Low speed protection; with adjustable threshold and slope
- Overvoltage and undervoltage alarm

- Excitation overcurrent protection with delayed trip
- Under-excitation/loss-of-excitation alarm
- 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 and 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)
- Memorization of card operating time
- 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 regulators from Mecc Alte or other specialized brands.

Non-binding images and technical data.

## Technical Sheet

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	± 1%