AUTOMATIC V O L T A G E REGULATOR

52014



S2014 is the new **DIGITAL** controller manufactured by BELTRAME CSE. It controls alternators excitation and its easy programmable software makes it suitable for a wide alternators range. Several parameters can be optimize on this devise.

FEATURES FUNCTIONS

- Four control modes:
 - Automatic Voltage Regulation (AVR);
 - Current regulation (FCR);
 - Power Factor Regulation (PF);
 - Reactive power regulation (VAR).
- In AVR modes the voltage regulation is made by "soft-start" ramp;
- Wide range of regulations and "set points" for each functioning mode;
- Protection for over excitation (OEL) and under excitation (UEL) when working in AVR, VAR and PF modes;
- Compensation for under-frequency or limitation of voltage/frequency ratio [V/Hz];
- Six generator protection functions:
 - Protection from excitation over-voltage;
 - Protection from excitation over-current (OE limit);
 - Protection from generator over-voltage;
 - Protection from under current excitation (UE LIM);
 - Lack of field voltage;
- Generators parallel connection with "droop" reactive compensation and differential reactive compensation.

INPUTS AND OUTPUTS

- Single phase voltage (3÷300 Vac 40÷500Hz);
- Single phase rms generator voltage sensing (0÷600 Vac);
- Single phase generator current (nominal 1A or 5A);
- Analog input (±5 V) providing a proportional and remote control to the voltage regulating point;
- Three digital inputs (up/down/parallel);
- Power output up to a maximum of 8A in continuous duty and positive ceiling voltage of 16A for 10s.;
- Analog input for 1 $k\Omega$ potentiometer for remote control from the voltage regulation.

HMI INTERFACE

- On the regulator there are buttons for navigation and modification of parameters and a display for view of the same, in addition to the most important values;
- RS-485 communication port.

TECHNICAL FEATURES

Max. output current in continuous duty: 8A
Maximum output current for 10 sec.: 16A
Auxiliary input frequency range: 40Hz ÷ 500Hz
Alternator nominal frequency: 50Hz or 60Hz
Temperature range in duty: 0°C ÷ +55°C
Temperature range in stock: -20°C ÷ 80°C
Overall dimensions in mm:

length 150, width 58, height 63, weight 550 gr Precision: ≥0,25%



