

## NEW DIGITAL PULSE GENERATOR

SEPAC in the continuous pursuit for new technologies for its Automatic Voltage Regulators RAV, has developed new pulse generators with a digital technology that provides the following features:

Triggering of the thyristor of three phase bridge of Graetz configuration, i.e., six branches and three-phase power with a thyristor in each of them.

Digital electronic control based on technology of phase locked loop (PLL) for the elaboration of a set of six balanced trigger pulses spaced  $60^\circ$  each other for activation of the gates of the thyristor (SCR's)



Insulation between the sub-assemblies of power and the control electronics by transmission of pulses through optical fiber.

Available versions for 50/60 Hz and 420 Hz that enable feeds of power from permanent magnet generator (PMG) or excitation transformers (PTT).

Fast enabling of pulse generation. Firing angle proportional to demand signal.

Robustness in design which guarantees the functionality to distortions in synchronism signals that allow to maintain the balance of pulses within a  $\pm 1\%$  accuracy.

Compatibility with previous versions of pulse generators of the brand SEPAC, which allows the replacement of an existing pulse generator with a new one without wiring modification

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