



# DINGOL DG164D Three Phase Alternator 16 kVA AVR

## Product description:

### DINGOL DG164D THREE-PHASE 16KVA AVR

DINGOL DG164D is a three-phase brushless alternator capable of delivering a maximum power of 16KVA complete with AVR voltage regulator.

DINGOL DG164D is equipped with a class H insulation system. All components are subjected to a specific coating and/or impregnation process in order to safeguard the functionality of the generator and to protect critical parts under various conditions of use.

DINGOL DG164D alternators are equipped with a class H insulation system.

The DINGOL DG164D alternators respond optimally even in the presence of non-linear loads. This result is obtained by winding the electric cable of the stators with a 2/3 pitch, thus eliminating third order harmonics ( $3^\circ$  -  $9^\circ$  -  $15^\circ$ ). In fact, this also eliminates the excess neutral current that sometimes appears with larger pitch windings during parallel operation.

DINGOL DG164D adopt the IP22 (NEMA1) standard for industrial use, suitable to guarantee protection from normal atmospheric conditions. For extreme weather conditions, the IP23 standard is also available, which provides protection against water up to  $60^\circ$  from vertical.

DINGOL DG164D have twelve end terminals and are delivered pre-configured in three-phase configuration unless otherwise specified by the customer. However, if it is necessary to change the configuration, a table of possible configurations is provided on the back of the termination box cover.

### VOLTAGE REGULATOR AVR

Electronic AVRs are installed indifferently on alternators intended for industrial use and those



intended for marine use. They allow to transfer in a constant way the necessary energy from the excitation stator to the main exciter, independently from the power developed moment by moment by the generator.

The high efficiency of the AVR ensures operation even when the residual excitation current is very low. The output current from the excitation rotor that is used to power the main exciter passes through a wave rectifier bridge. The rectifier itself is equipped with protection against overvoltages caused, for example, by a short circuit or a parallel made out of phase.

The automatic voltage regulator, by means of sensing, regulates the voltage of the alternator output current with a control margin of 0.5% over or under, from no-load to full load, including variations from cold to operating temperature, up to cos-phy 0.8 and up to an R.P.M. variation of 4%.

Voltage is adjusted by acting on a trimmer.

#### TECHNICAL FEATURES DINGOL DG164D

Phase type: Three-phase

Voltage (V): 400

Frequency (Hz): 50

Revolutions per minute (rpm): 1500

Single-phase power (kVA): ----

Three-phase power (kVA): 16

Type of alternator: constant speed

Voltage regulator: AVR

Brushless

Protection class: IP22 (on request IP 23)

Weight (Kg): 116

Are you looking for an alternator with different characteristics? [Here](#) you can find the whole range DINGOL or other specialized brands.

Images and technical data are not binding.

#### Product features:

Phase: Three phase

Frequency (Hz): 50

Voltage (V): 400

Engine rpm (rpm): 1500

Three-phase power (KW): 12.8

Three-phase power (KVA): 16

Efficiency (%): 81.6



Protection degree: IP22

Length (mm): 500

Width (mm): 480

Height (mm): 670

Dry weight (Kg): 116

Brushes: No

PMG: Optional

Type of alternator: Constant Speed

Voltage regulator: AVR