



# DINGOL DG274H Three-phase Alternator 200 kVA AVR

## Product description:

DINGOL DG274H THREE PHASE 200KVA AVR

DINGOL DG274H is a three-phase brushless alternator capable of delivering a maximum power of 200KVA complete with AVR voltage regulator.

All components that make up the alternator are subjected to a specific coating and/or impregnation process to safeguard the functionality of the generator and to protect the critical parts in various conditions of use.

DINGOL DG274H responds 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 ( $3^\circ - 9^\circ - 15^\circ$ ) from the voltage curve. This also eliminates the excess of neutral current that sometimes appears with larger pitch windings, during parallel operation.

DINGOL DG274H are designed to guarantee an IP22 protection class for industrial use suitable for protection from normal weather conditions.

For extreme atmospheric conditions, models are available that also guarantee IP23 standard protection against water up to  $60^\circ$  from vertical. Marine use requires the IP23 standard, and also a 5% derating of the alternator.

On the test bench, the rotors are balanced to the best of BS6861:part 1 frame 2.5. to allow operation with the lowest possible vibration. The THF (as defined by the directive BS4999 part 40) is at best 2%, while the TIF : Telephone Influence Factor as defined by the directive NEMA MG1-32) is better than 50.

DINGOL DG274H is a brushless alternator, this feature together with the high efficiency of the AVR ensure a low level of interference with radio waves.

DINGOL DG274H have twelve terminal blocks and are delivered pre-configured in three-phase





configuration unless otherwise specified by the customer. If it is necessary to change the configuration, all possible configurations are marked on the back of the termination box cover.1

## AVR VOLTAGE REGULATOR

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 instant by instant 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 AVR through 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 a variation r.p.m. of the engine of 4%.

## TECHNICAL CHARACTERISTICS DINGOL DG274H

Phase Type: ThreePhase

Voltage (V): 400

Frequency (Hz): 50

Revolutions Per Minute (rpm): 1500

ThreePhase Power (kW): 160

ThreePhase Power (kVA): 200

Type of alternator: constant speed

Voltage regulator: AVR

Brushless

Protection class: IP22 (on request IP 23)

Weight (Kg): 650

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): 160  
Three-phase power (KVA): 200  
Efficiency (%): 93.3  
Protection degree: IP22  
Length (mm): 1070  
Width (mm): 600  
Height (mm): 960  
Dry weight (Kg): 650  
Brushes: No  
PMG: Optional  
Type of alternator: Constant Speed  
Voltage regulator: AVR

