



## DINGOL DG274G THREE-PHASE ALTERNATOR 180 KVA AVR

Reference: DG274G

### DINGOL DG274G THREE PHASE 180KVA AVR

DINGOL DG274G is a three-phase brushless alternator capable of delivering a maximum power of 180KVA 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 peers in various conditions of use.

DINGOL DG274G responds optimally even in the presence of non-linear loads. This result is obtained by winding the electrical cable of the stators with a pitch of 2/3, 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 DG274G are designed to guarantee an IP22 protection class for industrial use suitable for protection from normal weather conditions.

DINGOL DG274G is a brushless alternator, this feature together with the high efficiency of the AVR ensure a low level of interference with radio waves.

DINGOL DG274G 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.

### 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  $\cos\phi$  0.8 and up to a variation r.p.m. of the engine of 4%.

#### TECHNICAL CHARACTERISTICS DINGOL DG274G

Phase Type: ThreePhase  
Voltage (V): 400

Frequency (Hz): 50  
Revolutions Per Minute (rpm): 1500  
ThreePhase Power (kW): 144  
ThreePhase Power (kVA): 180  
Type of alternator: constant speed  
Voltage regulator: AVR  
Brushless  
Protection class: IP22 (IP 23 upon request)  
Weight (Kg): 580

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.

## Technical Sheet

Phase	Three phase
Frequency (Hz)	50
Voltage (V)	400
Engine rpm (rpm)	1500
Three-phase power (KW)	144
Three-phase power (KVA)	180
Efficiency (%)	92.3
Protection degree	IP22
Length (mm)	1000
Width (mm)	600
Height (mm)	960
Dry weight (Kg)	580
Brushes	No
PMG	Optional
Type of alternator	Constant Speed
Voltage regulator	AVR