



# DINGOL DG184F Three Phase 27.5 kVA AVR

## Product description:

### **DINGOL DG184F THREE-PHASE ALTERNATOR 27,5 KVA AVR**

DINGOL DG184F is a three-phase brushless alternator capable of delivering a maximum power of 27,5 complete with AVR voltage regulator.

DINGOL DG184F is equipped with a class H insulation system. All components 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.

The resins and paints used are suitable to make resistant the surface of the static windings, and to give mechanical strength to all rotating components.

DINGOL DG184F responds excellently even in the presence of non-linear loads. This result is obtained by winding the electric cable of the stators with a pitch of  $\frac{2}{3}$ , thus eliminating third-order harmonics ( $3^\circ - 9^\circ - 15^\circ$ ).

DINGOL DG184F is equipped with a fully connected auxiliary buffer winding contributes to drastically reduce oscillations in parallel, this helps to minimize waveform distortions.

DINGOL DG184F adopt the IP22 (NEMA1) standard for industrial use suitable to guarantee protection from normal weather conditions. For extreme weather conditions, the IP23 standard is also available, which provides protection against water up to  $60^\circ$  from vertical.

The absence of a brush mechanism and the high efficiency of the voltage regulator ensure a low level of interference with radio waves.

DINGOL DG184F is equipped with twelve terminal blocks 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 shown on the back of the termination box cover.

### AVR VOLTAGE REGULATOR

The AVR voltage regulator allows 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 AVR through sensing regulates the voltage of the output current from the alternator with a margin of control 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 motor of 4%.

### TECHNICAL CHARACTERISTICS DINGOL DG184F

Phase type: Three-phase  
Voltage (V): 400  
Frequency (Hz): 50  
Revolutions per minute (rpm): 1500  
Single-phase power (kVA): ----  
Three-phase power (kVA): 27.5  
Alternator type: Constant speed  
Voltage regulator: AVR  
Brushless  
Protection degree: IP22 (on request IP 23)  
Weight (Kg): 164

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

Pictures 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): 22



Three-phase power (KVA): 27.5

Efficiency (%): 86.2

Protection degree: IP22

Length (mm): 630

Width (mm): 500

Height (mm): 670

Dry weight (Kg): 164

Brushes: No

PMG: Optional

Type of alternator: Constant Speed

Voltage regulator: AVR