



# DINGOL DG224C Three-phase Alternator 42.5 KVA AVR

## Product description:

### **DINGOL DG224C THREE-PHASE 42.5KVA AVR**

DINGOL DG224C is a three-phase brushless alternator capable of delivering a maximum power of 42.5KVA complete with AVR voltage regulator.

DINGOL DG224C is equipped with a class H insulation system. All the components are subjected to a specific coating and/or impregnation process in order to safeguard the functionality of the generator and to protect the critical parts in the various conditions of use.

DINGOL DG224C alternators are equipped with a class H insulation system.

The DINGOL DG224C alternators respond optimally even in the presence of non-linear loads. In fact, this also eliminates the excess of neutral current that sometimes appears with larger pitch windings during grid parallel operation. A fully connected auxiliary buffer winding helps to drastically reduce parallel oscillations.

DINGOL DG224C adopt the IP22 (NEMA1) standard for industrial use suitable to provide protection from normal weather conditions. For extreme weather conditions, an IP23 standard is also available which provides protection against water up to 60° from vertical.

DINGOL DG224C have 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.

## **VOLTAGE REGULATOR AVR**

The AVR 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 automatic voltage regulator, 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 r.p.m. variation of 4%.

## TECHNICAL CHARACTERISTICS DINGOL DG224C

Phase Type: Three-phase

Voltage (V): 400

Frequency (Hz): 50

Revolutions per minute (rpm): 1500

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

Three-phase power (kVA): 42. 5

Type of alternator: constant speed

Voltage regulator: AVR

Brushless

Protection class: IP22 (IP 23 on request)

Weight (Kg): 255

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): 34

Three-phase power (KVA): 42.5

Efficiency (%): 87.1

Protection degree: IP22

Length (mm): 750

Width (mm): 500



Height (mm): 880

Dry weight (Kg): 255

Brushes: No

PMG: Optional

Type of alternator: Constant Speed

Voltage regulator: AVR

