



## DINGOL DG164B Three-phase Alternator 11 KVA AVR

Reference: DG164B

### DINGOL DG164B THREEPHASE 11KVA AVR

DINGOL DG164B is a threephase brushless alternator capable of delivering a maximum power of 11KVA complete with AVR voltage regulator.

DINGOL DG164B 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 protect critical parts in various conditions of use. The resins and paints used are suitable to make the surface of the static windings resistant, and to give mechanical strength to all rotating components.

The DINGOL DG164B 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 pitch of 2/3, 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. A fully connected auxiliary buffer winding helps to drastically reduce parallel oscillations.

DINGOL DG164B 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.

DINGOL DG164B have twelve end terminals and are delivered pre-configured in threephase 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.

The termination box has ample space for wiring and also houses the voltage regulator. Two removable panels provide quick and easy side access to the termination box.

### AVR VOLTAGE REGULATOR

Electronic AVR's 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.

### TECHNICAL FEATURES DINGOL DG164B

Phase type: Threephase

Voltage (V): 400

Frequency (Hz): 50

Revolutions per minute (rpm): 1500  
Singlephase power (kVA): ----  
Threephase power (kVA): 11  
Alternator type: Constant speed  
Voltage regulator: AVR  
Brushless  
Protection degree: IP22 (on request IP 23)  
Weight (Kg): 108

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)	8.8
Three-phase power (KVA)	11
Efficiency (%)	79.4
Protection degree	IP22
Length (mm)	500
Width (mm)	480
Height (mm)	670
Dry weight (Kg)	108
AVR	Yes
PMG	Optional
Type of alternator	Constant Speed
Voltage regulator	AVR