



## DINGOL DG184J Three-phase 40 KVA AVR

Reference: DG184J

### DINGOL DG184J THREE-PHASE ALTERNATOR 40 KVA AVR

DINGOL DG184J is a brushless three-phase alternator capable of delivering a maximum power of 40KVA complete with AVR voltage regulator.

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 DG184J 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 ( $3^\circ - 9^\circ - 15^\circ$ ).

DINGOL DG184J is equipped with a fully connected auxiliary buffer winding contributes to drastically reduce oscillations in parallel, this helps to minimize waveform distortions.

DINGOL DG184J adopt the IP22 (NEMA1) standard for industrial use suitable to ensure 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 DG184J 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 DG184J

Phase Type: Three Phase

Voltage (V): 400  
Frequency (Hz): 50  
Revolutions per minute (rpm): 1500  
Single-phase power (kVA): ----  
Three-phase power (kVA): 40  
Alternator type: constant speed  
Voltage regulator: AVR  
Brushless  
Protection degree: IP22 (on request IP 23)  
Weight (Kg): 240

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)	32
Three-phase power (KVA)	40
Efficiency (%)	86.6
Protection degree	IP22
Length (mm)	740
Width (mm)	500
Height (mm)	730
Dry weight (Kg)	240
Brushes	No
PMG	Optional
Type of alternator	Constant Speed
Voltage regulator	AVR