



DINGOL DG274E Three-Phase Alternator 140 kVA AVR

Reference: DG274E

DINGOL DG274E THREE PHASE 140KVA AVR

DINGOL DG274E is a three-phase brushless alternator capable of delivering a maximum power of 140KVA 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 DG274E 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 DG274E are designed so as to guarantee an IP22 protection class for industrial use suitable for protection from normal weather conditions.

For extreme atmospheric conditions, models are available that also guarantee IP23 standard protection against water up to 60° from vertical. Marine use requires the IP23 standard, and also a 5% derating of the alternator.

On the test bench, the rotors are balanced to the best of BS6861:part 1 frame 2.5. to allow operation with the lowest possible vibration. The THF (as defined by the directive BS4999 part 40) is at best 2%, while the TIF : Telephone Influence Factor as defined by the directive NEMA MG1-32) is better than 50.

DINGOL DG274E is a brushless alternator, this feature together with the high efficiency of the AVR ensure a low level of interference with radio waves.

DINGOL DG274K 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.

The DINGOL DG274E is available in stand-alone and dual stand-alone versions. For DG16.. models, both SAE 4,5,6 flanges and SAE 6.5 7.5 8 and 10 discs are available. For DG18.. models, both SAE 2,3,4,5 flanges and SAE 6.5 7.5 8 10 and 11.5 discs are available. SAE 1 is only available for the DG18.. two-support model.

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 via 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 cold to operating temperature variations, up to cos-phy 0.8 and up to a 4% r.p.m. variation of the motor.

TECHNICAL FEATURES DINGOL DG274E

Phase Type: Three-Phase
 Voltage (V): 400
 Frequency (Hz): 50
 Revolutions Per Minute (rpm): 1500
 Three-Phase Power (kW): 112
 Three-Phase Power (kVA): 140
 Type of alternator: constant speed
 Voltage regulator: AVR
 Brushless
 Protection class: IP22 (IP 23 upon request)
 Weight (Kg): 510

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)	112
Three-phase power (KVA)	140
Efficiency (%)	91.7
Protection degree	IP22
Length (mm)	950
Width (mm)	600
Height (mm)	960
Dry weight (Kg)	510
Brushes	No
PMG	Optional
Type of alternator	Constant Speed
Voltage regulator	AVR