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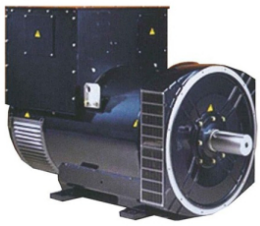
PIVA 09031950018 - Num. REA: 1020262
SDI 5RUO82D Cap. Soc. € 20.000 I.V



DINGOL DG544B Three-phase alternator 450 kVA AVR

Reference: DG544B SAE00 disk joint 14

DINGOL DG544B THREE PHASE 450KVA AVR

DINGOL DG544B is a three-phase brushless alternator capable of delivering a maximum power of 450KVA complete with AVR voltage regulator.

All the components that make up the DINGOL DG544B alternator are subjected to a specific coating and/or impregnation process to safeguard the generator's functionality and protect the critical parts in the various conditions of use.

On the test bench, the rotors are balanced to the best of BS6861: part 1 box 2.5. To allow operation with the minimum possible vibration. Bi-bearing alternators are balanced using a half key.

THF (as defined by BS4999 directive part 40) is better than 2% and TIF : Telephone Influence Factor as defined by NEMA MG1-32) is better than 50.

DINGOL DG544B respond optimally even in the presence of non-linear loads. This result is obtained by winding the electric cable of the stators with a 2/3 pitch, thus eliminating third order harmonics (3° - 9° - 15°) from the voltage curve. This also eliminates the excess of neutral current that sometimes appears with larger pitch windings, during parallel operation.

DINGOL DG544B are designed to guarantee IP22 protection class for industrial use suitable for protection from normal weather conditions.

DINGOL DG544B 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.

DINGOL DG544B is a brushless alternator, this feature together with the high efficiency of the AVR ensure a low level of interference with radio waves.

AVR REGULATOR

The AVR is an electronic device that regulates the alternating current coming from the alternator and transforms it into direct current.

By means of a voltage regulator, it is possible to convert the alternating current into direct current and thus avoid voltage and current surges.

All synchronous machines, in order to work, need an electronic control system, and this device, known as AVR, guarantees the good working of the machine and above all of the electric network behind it.

The high efficiency of the AVR ensures operation even when the residual excitation current is very low. The output current from

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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 CHARACTERISTICS DINGOL DG544B

Phase Type: Three Phase
Power Supply Voltage: 400 - 440 V
Frequency: 50 - 60 Hz
Maximum Power (50 Hz): 360KW
Maximum Power (50 Hz): 450KVA
Maximum Power (60 Hz): 428KW
Maximum Power (60 Hz): 535KVA
Revolutions Per Minute: 1500 rpm
Efficiency %: 94. 0
Brush Type: Brushless
Voltage Regulator: AVR
Protection Class: IP22
Width: 1337 mm
Length: 862 mm
Height: 971 mm
Dry Weight: 1123 Kg

Are you looking for an alternator with different characteristics? Here you can find the whole range of DINGOL or other specialized brands.

Images and technical data are not binding.

Technical Sheet

Phase	Three phase
Maximum power three phase (KW)	360
Maximum power three phase (KVA)	450
Frequency (Hz)	50 / 60
Voltage (V)	400
Engine rpm (rpm)	1500
Efficiency (%)	94.0
Protection degree	IP22
Length (mm)	1337
Width (mm)	862
Height (mm)	971
Dry weight (Kg)	1123
Brushes	No
Type of alternator	Constant Speed
Voltage regulator	AVR