37224 - 37225

Marine Data Sheet

Service	Unit	Value
Power	kVA	270
Power	kW	216
Speed	r.p.m.	1500
Standard Voltage	V	400
Frequency	Hz	50
Phases		3

Engine Equipment

Scania Engine Management System, EMS incl. Governor
Unit injectors, PDE
Turbocharger
Fuel pre-filter with water separator
Duplex change-over fuel oil filter
Paper filter element fuel filter
Duplex change-over lube oil filter
Centrifugal oil cleaner
Oil cooler, integrated in cylinder block
Oil filler, in cylinder block
Oil dipstick, in cylinder block
Water-cooled charge air cooler (not for emerg/hbr engines)
Flywheel SAE 14
Starter, 2-pole, 7.0 kW, (EMS controlled)
Closed crankcase ventilation

Specific Fuel and Oil Consumption

100% Load	[g/kWh]	196
50% Load	[g/kWh]	200
Lube oil consumption (max)	[g/kwh]	<0.2 g/kWh

Alternator Equipment

The alternator is a 2-bearings, brushless, self-exciting, self-regulating with revolving field, in-ventilated, drip-proof design and with damper windings included.
The voltage regulation is maintained within limits of +/- 0,5 % from no load to full load at any power factor between 0,8 and 1,0.

MADE IN GERMANY

Engine and Alternator

Engine	SCANIA 04-03	DI09 074M
Alternator	Cummins-Newage	S4L1M-E42

Diesel Engine Data

Engine Power	kW	269
Engine Torque	Nm	1713
Number of Cylinders	Pcs.	5 in-line
Arrangement of Cylinders		4-stroke
Bore x Stroke	mm	130 x 140
Piston displacement	litres	9,3
Air Consumption	kg/min	19
Exhaust gas heat rejection	kW	164
Heat to surrounding air	kW	13
Exhaust gas temp.	°C	483
Exhaust flow	kg/min	19
Pressure in intake manifold	Bar	1,6
Sound power level	dB(A)	111,8

Classification

BV

Alternator Data

Voltage	V	400
Frequency	Hz	50
Speed	r.p.m.	1500
Insulation Stator/Rotor	Cl.	H/H
Temperature Rise	Cl.	F
Enclosure	IP	23
Power	kW	216
Power	kVA	270

37224 - 37225

Marine Data Sheet

Alternator Options:

Anti condensation heater

Droop kit for parallel operation

Air inlet filter

2x 3 PT100 for inding temperature

Cable glands

Painting

The set will be painted in light green colour RAL 6019

T

Signs

All signs on the set will be in English

Shut-Down Equipment

automatic shut down for following failures

- Over speed
- To low lube oil pressure
- To high cooling water temperature

Equipment Delivered Loose (per ship)

1 Pcs flexible exhaust expansion joint(s) with flanges, counter flanges and mounting kits.

Control System

The Engine Control Panel is flexible mounted on right side of the set and equipped alarm, monitoring and control system according to the rules of classification society.

Construction

The diesel engine and alternator are connected through a flexible coupling and mounted on a common marine bed frame, manufactured of electro welded steel profiles. Vibration dampers are mounted between the set and the bed frame.

Cooling System

Heat exchanger for seawater cooling

Starting System

Electrical starter with one set batteries for 3 consecutive starts including battery charger and battery box.

Notes

1) Generator specificaitons are subjected to change without prior notice
2) Fuel type for engine - MGO(DMX or DIN EN590)

Alarm Equipment

Indication for individual alarm at following failures:

- Low lube oil pressure
- High lube oil temperature
- High cooling water temperature
- Low fuel oil pressure
- Low cooling water pressure LT circuit
- Low cooling water pressure HT circuit
- Over speed
- Options to customized as per clients requirements

Dimensions

Height	mm	1515
Width	mm	1306
Length	mm	2380
Weight	kg	2540

Certificates and Test run

The equipment will be tested according to classification rules in our workshop in Germany in the presence of the classification society (where applicable)

Delivery of certificate and test running certificate per ship:

1 NoCopy of LIAG test report

1 No original classification certificate

1 No IMO Tier 2 (NOx) certificate

1 Pcs technical files

Spare Parts / Maintenance Books (per ship)

3 Sets of spare parts books for the engine in English.

3 Sets of spare parts- and maintenance books for the alternator in English.

3 Sets of specifications and drawings for the delivered equipment in English.

Warranty

12 months after hand over to the owner, max. 24 months after readiness of dispatch from LIAG, whichever comes first.

MADE IN GERMANY