

# 6 M33.2

#### 4 Stroke diesel engine, direct injection

**Bore and stroke** 150 x 185 mm **Number of cylinders** 6 in line **Total displacement** 19,6 litres **Compression ratio** 15/1 **Engine rotation (ISO 1204 standard)** counterclockwise Idle speed 650 rpm Flywheel housing SAE 1 Flywheel

**SAE 14**"



#### **Customer benefits**

**Continuous compact power** with reference torque performance in its category

Global environment care with low exhaust emissions and controlled fuel consumption at any running cycle

Simple technology with mechanical injection

**Life cycle cost efficiency** with extended mean time between overhauls (MBTO)

## **Rated power - Fuel consumption**

Duty	kW	hp	rpm	Fuel consumption g/kWh	Peak torque / speed (N.m / rpm)	l/h	IMO
P1	478	650	1800	211	3056 / 1300	120	
P1	515	700	1800	209	3085 / 1300	128	II
P2	551	750	1800	214	3684 / 1400	141	II.

	P1	P2	
Application	unrestricted continuous	continuous	
Engine load variations	very little or none	Numerous	
Average engine load factor	80 to 100 %	30 to 80 %	
Annual working time	5000 hr +	3000 to 5000 h	
Time at full load	unlimited	8 h each 12 h	

### **Power definition**

Standard ISO 3046/1

**Reference conditions** 

Ambient temperature 25 °C / 77 °F Barometric pressure 100 kPa Relative humidity 30%R Raw water temperature 25 °C / 77 °F **Fuel oil** 

Relative density  $0.840 \pm 0.005$ Lower calorific power 42 700 kJ/ka Consumption tolerances  $0 \pm 5\%$ Inlet limit temperature 35 °C / 95 °F

Our ratings also comply with classification societies maximum temperature definition without power derating.

45 °C / 113 °F Ambient temperature 32 °C / 90 °F Raw water temperature



## **Standard equipment**

**Cooling system** 

Fresh / raw water heat exchanger with integrated thermostatic valves and expansion tank Cast iron centrifugal fresh water pump, mechanically driven Bronze self-priming raw water pump, mechanically driven

**Lubrication system** 

Full flow screwable oil filters
Fresh water cooled lube oil cooler
Lube oil purifier with replaceable cartridge
Manual prelubricating oil pump

**Fuel system** 

In-line injection pump with flanged mechanical governor Double wall injection bundle with leakage collector Duplex fuel filters replaceable while engine running

Intake air and exhaust system

Fresh water cooled turbo blower Fresh water cooled exhaust gas manifold

**Electrical system** 

Voltage: 24VDC Electrical starter on flywheel crown 175A battery charger Engine room and bridge panels

# **Dimensions and dry weight** (mm / kg)

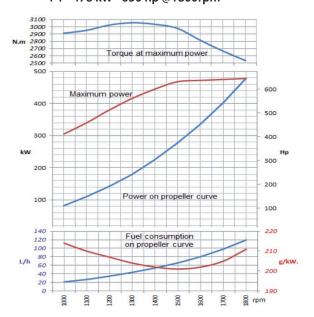




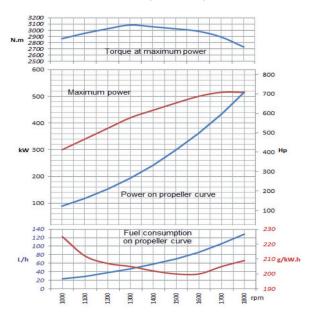


#### **Performance**

P1 - 478 kW - 650 hp @1800rpm



P1 - 515 kW - 700 hp @1800 rpm



P2 - 551 kW - 750 hp @1800 rpm

