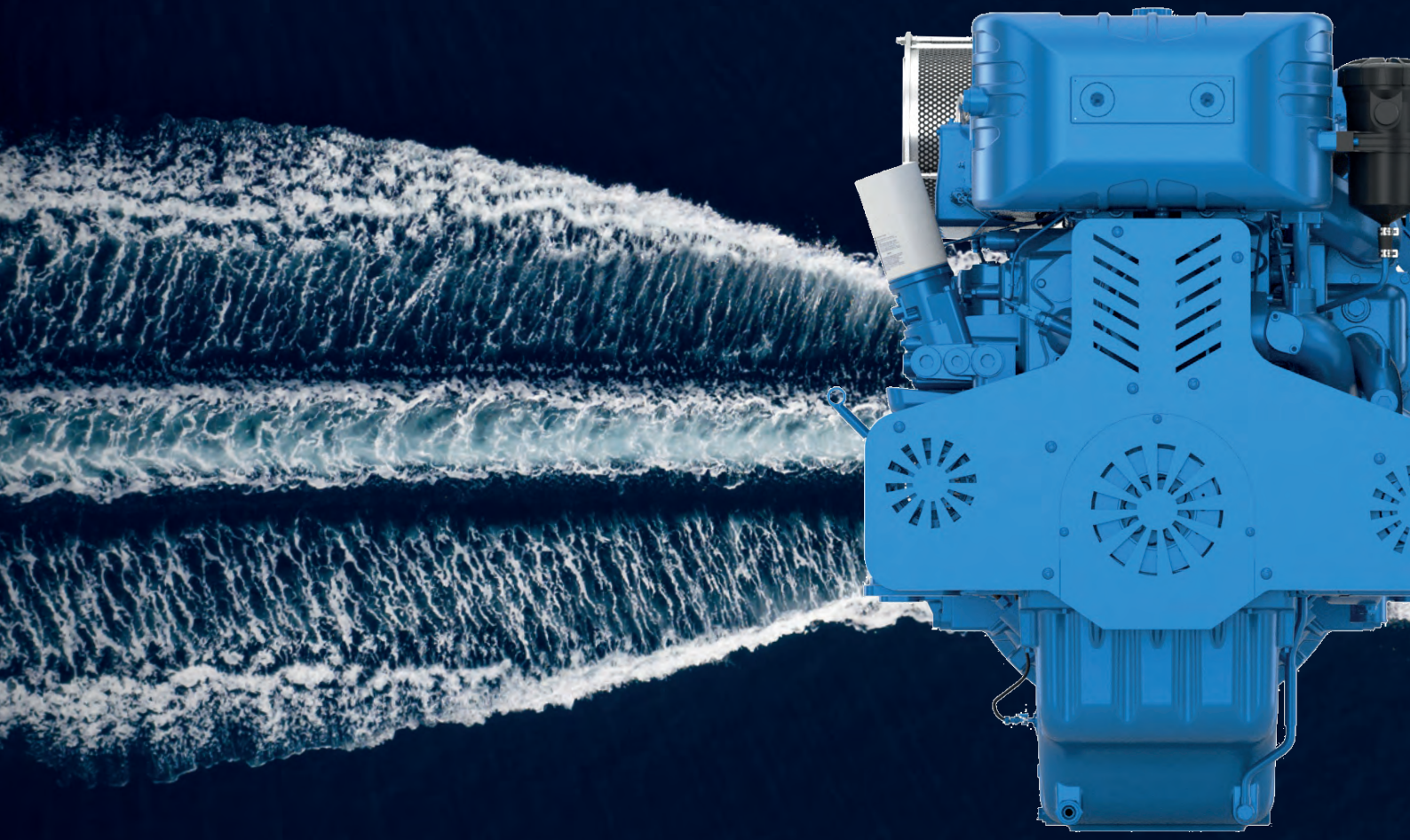
MOTEURS Baudouin

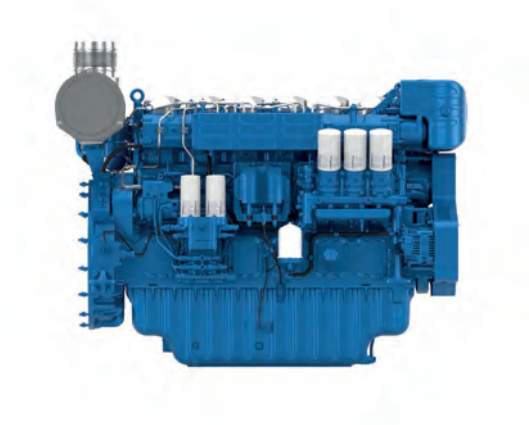


6M33.3

Marine propulsion engine

6M33.3

Common rail diesel engine



Number of cylinders	L6
Bore & Stroke (mm)	150 x 185
Displacement (L)	19.6
Engine rotation	Counterclockwise
Idle speed (rpm)	650
Fly wheel	18"
Fly wheel housing	SAE 0

Rated power

Rating	kW	rpm	HP	Fuel consumption			Certification
				Optimum value	Rated power		
				g/kWh	g/kWh	l/h	
P1	552	1600	750	203	203	137	IMO II
P1	552	1800	750	211	211	142	IMO II / EPA III (COM)
P2	574	1600	780	202	202	142	IMO II
P2	574	1800	780	210	210	147	IMO II / EPA III (COM)
P3	670	1900	911	215	215	176	IMO II

P1 - CONTINUOUS DUTY - Severe continuous application with little or no engine speed / load variations.
Displacement hull:
- Engine mean load factor: 100%.
- Annual duration of use: Unrestricted.
- Use under full load: unlimited (100%).

Application examples: Deep Sea vessels and shrimp trawlers, high sea or river tugboats, towboats, cargos, cargo boats, dredgers, ferries.

P2 - HEAVY DUTY - Continuous application with frequent variations in engine speed and load.
Displacement or semi-displacement hull:
- Engine mean load factor: 80%.
- Annual duration of use: 5,000 hours.
- Use under full load: 8 hours in a 12-hours period (66%).

Application examples: Annual passenger vessels, harbour tugs, self-propellers, coasters, fast fishing boats such as tuna boats, seiners, pot vessels or liners, buoying vessels, oceanographic research vessels.

P3 - INTERMITTENT DUTY - Intermittent application with significant variations in engine speed and load.
Planning or semi-planning hull:
- Engine mean load factor: 70%.
- Annual duration of use: 3,000 hours.
- Use under full load: 2 hours in a 12-hours period (16%).
- Cruising speed is less than 90% of nominal engine speed.

Application examples: Seasonal passenger vessels, fishing launches, pilot boats, pump boats, displacement sailboats, trawlers, bow thrusters.

P4 - LIGHT DUTY - Light application with significant variations in engine speed and load.
Planning hull:
- Engine mean load factor: 90%.
- Annual duration of use: less than 1,500 hours.
- Use under full load: 1 hour in a 12-hours period (8%).
- Cruising speed is less than 80% of nominal engine speed.

Application examples: Survey or rescue fast vessels, military fast vessels, patrol boats, commercial pleasure craft.

P5 - HIGH PERFORMANCE DUTY - High performance application with significant variations in engine speed and load:
- Engine mean load factor : 60%.
- Annual duration for use: 500 hours.
- Use under full load: 1 hour in a 12-hours period (8%).

Application examples: Private pleasure boats, multi-hull pleasure boats.

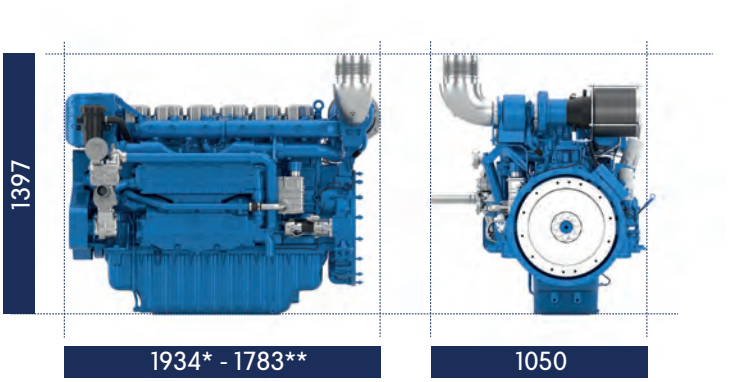
WARRANTY DISCLAIMER

Warranty does not apply whenever the engine operation conditions differ from the initial duty class - P1, P2, P3, P4 and P5 - operational conditions. The operator must therefore modify the duty class accordingly, to benefit from SIMB warranty coverage.

6M33.3

Common rail diesel engine

Dimensions and dry weight (mm/kg)



2430kg Weight with 5% tolerance

*total
**from flywheel

Standard equipment

Cooling System

Two-stage cooling circuit with integrated HT thermostatic valve
High efficiency heat exchanger (Tube Type) with integrated fresh water expansion tank
Belt-driven self-priming raw water pump with bronze impeller

Lubrication System

Duplex full-flow spin-on lube oil filters
Freshwater-cooled lube oil cooler
Electric pre-lubrication and oil drain pump

Fuel System

Electronically controlled common-rail fuel injection system
Double-wall fuel injection pipe with leakage detection system
Duplex fuel prefilter with water separator

Intake Air and Exhaust System

Double flow raw water cooled intake air heat exchanger module
High efficiency dry-type turbocharger with heat insulation

Electrical System

24V DC system, Insulated
Electrical Starter
Battery Charger 200A

Optional Equipment

Keel Coooling configuration
1400N.m front PTO with elastic coupling
Elastic mounting
Closed circuit blow by filtration
Air starter
Fresh water pre-heater
Cabin heating connections
Full class compliant engine on demand
Master BMS for full class engines
Additional displays

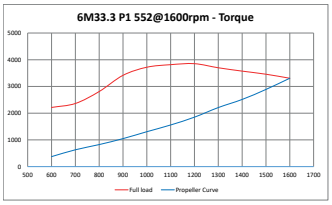
Contact us for further information regarding our options.

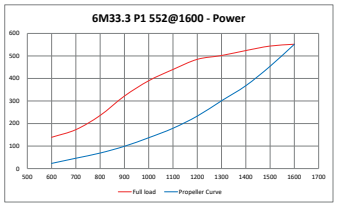
6M33.3

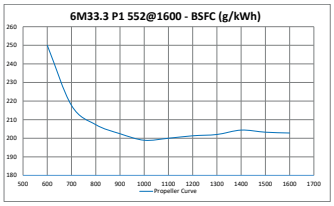
Common rail diesel engine

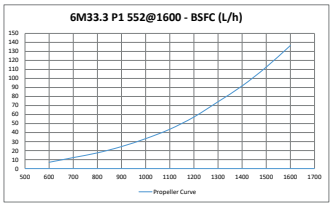
Performance

P1 - 552 kW - 1600 rpm

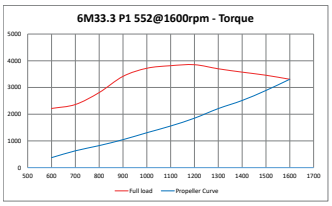


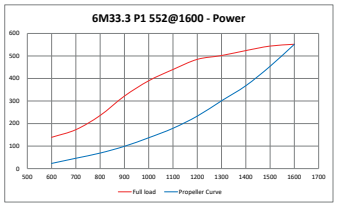


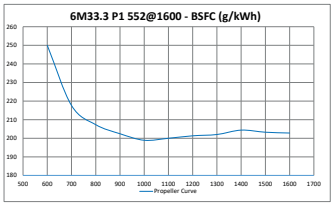


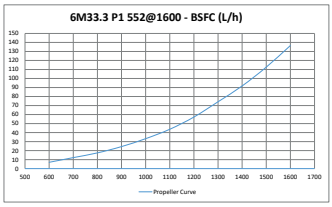


P1 - 552 kW - 1800 rpm

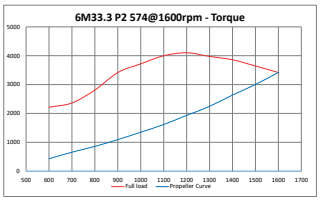


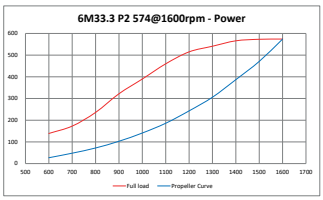


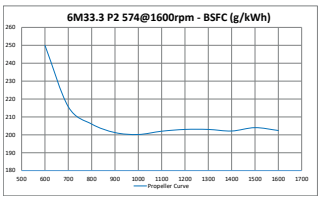


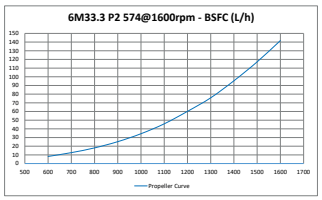


P2 - 574 kW - 1600 rpm

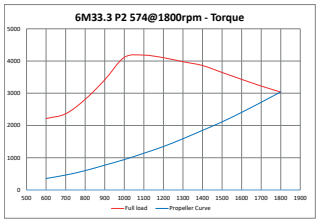


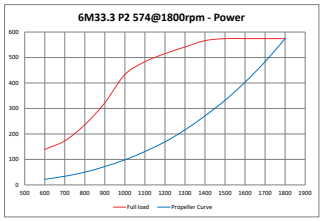


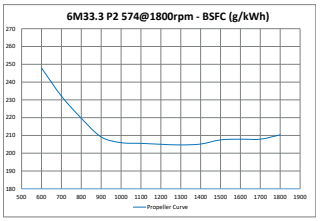


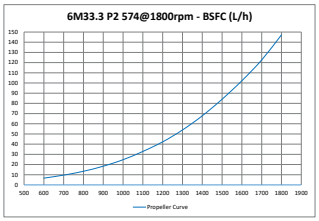


P2 - 574 kW - 1800 rpm

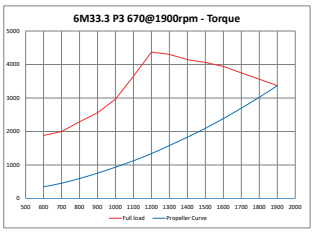


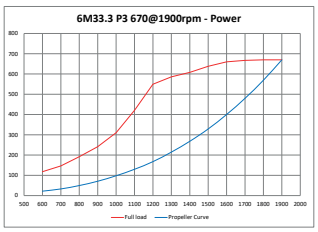


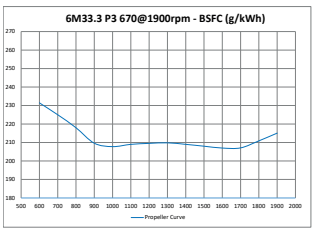


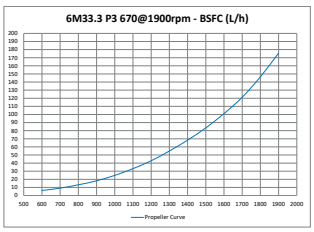


P3 - 670 kW - 1900 rpm









Power definition

(Standard ISO 3046-1:2002)

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 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	± 5%
Inlet limit temperature	35°C /95°F

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

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

M.P.6M33.2.EN.10.26

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