6 W105M

4 Stroke diesel engine, direct injection

- **Bore and stroke**: 105 x 130 mm
- **Number of cylinders**: 6 in line
- **Total displacement**: 6,75 litres
- **Compression ratio**: 18/1
- **Engine rotation (ISO 1204 standard)**: counterclockwise
- **Idle speed**: 650 rpm
- **Flywheel housing**: SAE 3
- **Flywheel**: SAE 11,5”

**Customer benefits**

- **Built for heavy duty applications** with reference performances in its category
- **Easy service** with accessible components and unit cylinder heads
- **Simple technology with mechanical injection**
- **Life cycle cost efficiency** with extended mean time between overhauls (MBTO)

**Rated power - Fuel consumption**

<table>
<thead>
<tr>
<th>Duty</th>
<th>kW</th>
<th>hp</th>
<th>rpm</th>
<th>Fuel consumption g/kWh</th>
<th>l/h</th>
<th>IMO</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2</td>
<td>136</td>
<td>185</td>
<td>2100</td>
<td>211</td>
<td>34</td>
<td>II</td>
</tr>
<tr>
<td>P3</td>
<td>168</td>
<td>228</td>
<td>2425</td>
<td>216</td>
<td>43</td>
<td>II</td>
</tr>
<tr>
<td>P4</td>
<td>185</td>
<td>252</td>
<td>2500</td>
<td>226</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Application</th>
<th>P2 duty</th>
<th>P3 duty</th>
<th>P4 duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine load variations</td>
<td>continuous</td>
<td>intermittent</td>
<td>high performance</td>
</tr>
<tr>
<td>Average engine load factor</td>
<td>numerous</td>
<td>important</td>
<td>very important</td>
</tr>
<tr>
<td>Annual working time</td>
<td>3000 to 5000 h</td>
<td>1000 to 3000 h</td>
<td>less than 1000 h</td>
</tr>
<tr>
<td>Time at full load</td>
<td>8 h each 12 h</td>
<td>2 h each 12 h</td>
<td>1 h each 12 h</td>
</tr>
</tbody>
</table>

**Power definition**

Standard ISO 3046/1 - 1995 (F)

**Reference conditions**

- **Ambient temperature**: 25 °C / 77 °F
- **Barometric pressure**: 100 kPa
- **Relative humidity**: 30%
- **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

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### Standard equipment

**Engine and block**
- Cast iron cylinder block, with replaceable cylinder liners
- Separate cast iron cylinder heads
- Replaceable valves guides and seats
- Steel forged crankshaft with 7 bearings
- Lube oil cooled light alloy piston with 3 high performance piston rings

**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

**Fuel system**
- In line injection pump with flanged mechanical governor
- Double wall injection bundle
- Duplex fuel filters replaceable engine running
- Water separator

**Intake air and exhaust system**
- Insulated exhaust gas manifold
- Turbo blower with insulated turbine housing
- Low water temperature cooled intake air cooler

**Electrical system**
- Voltage: 24Vcc
- Electrical starter on flywheel crown
- 35A battery charger

### Optional equipment

- Cooling system adapted for box / keel cooling
- Connection for emergency raw water circuit
- Bilge pump
- Air starter
- Free end PTO
- Resilient mounts under engine
- Exhaust water injection after turbocharger

* contact us for further information regarding our options.

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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Dry Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>810</td>
<td>330</td>
</tr>
<tr>
<td>1076</td>
<td>885</td>
</tr>
<tr>
<td>1417</td>
<td>1417</td>
</tr>
</tbody>
</table>
Performance

P2 - 136 kW - 185 hp @2100 rpm

P3 - 168 kW - 228 hp @2425 rpm

P4 - 185 kW - 252 hp @2500 rpm