### 3JH40

**Configuration**
In-line, 4-stroke, vertical, water-cooled diesel engine

**Max. output at crankshaft**
29.4 kW@3000 rpm [40 mhp@3000 rpm]

**No. of cylinders**
3 cylinder

**Displacement**
1.642 L [100 cu in]

**Bore x stroke**
88 mm x 90 mm [3.46 in x 3.54 in]

**Aspiration**
Natural

**Combustion system**
Direct injection with Bosch common rail system

**Starting system**
Electric starting 12V - 1.4 kW

**Engine management**
Electronic

**Cooling system**
Fresh water cooling by centrifugal fresh water pump
Seawater cooling by rubber impeller seawater pump

**Alternator**
12V - 125A

**Lubrication system**
Enclosed, forced lubricating system

**Engine lube oil specifications**
API class: CD or higher, SAE grade: 10W-30 or 15W-40

**Direction of rotation at crankshaft**
Counterclockwise (CCW) viewed from stern

**Dry weight without gear**
192 kg [423lbs]

**Engine dimensions**
774 x 580 x 632 mm

**Emission compliance**
EU: RCD 2, BSO II, EMC
US: EPA Tier, 3 EPA-C

**Flywheel housing size**
SAE #5

**Controls**
Mechanical (optional - VC20 system)

**NOTE:**
Fuel condition: Density at 15°C = 0.84 g/cm³; 1 kW = 1.3596 mhp = 1.3410 HP
Technical data is according to (ISO 8665) / (ISO 3046)
* Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665)
†Length includes KM35A marine gear (Dimensions may vary with other gears/elbow)

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**DIMENSIONS**

<table>
<thead>
<tr>
<th>Rear view</th>
<th>Right side view</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Rear view](3JH40 with KM35A marine gear (Not to be used for engine installation))</td>
<td>![Right side view](3JH40 with KM35A marine gear (Not to be used for engine installation))</td>
</tr>
</tbody>
</table>

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**PERFORMANCE CURVES**

**MARINE GEAR / DRIVE**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Clutch type</strong></td>
<td>Mechanical cone clutch</td>
<td>Mechanical cone clutch</td>
<td>Mechanical multi-disc</td>
</tr>
<tr>
<td><strong>Dry Weight</strong></td>
<td>12 kg [26 lbs]</td>
<td>13 kg [29 lbs]</td>
<td>44 kg [97 lbs]</td>
</tr>
<tr>
<td><strong>Reduction Ratio [fwd/asn]</strong></td>
<td>2.36/3.16</td>
<td>2.61/3.16</td>
<td>2.23/2.23</td>
</tr>
<tr>
<td><strong>Direction of rotation viewed from stern</strong></td>
<td>Clockwise</td>
<td>Clockwise</td>
<td>Clockwise &amp; counter clockwise</td>
</tr>
<tr>
<td><strong>Lubrication system</strong></td>
<td>Splash lubrication</td>
<td>Splash lubrication</td>
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</tr>
<tr>
<td><strong>Lube oil specifications</strong></td>
<td>API class: CD or higher, SAE grade: #20 or #30</td>
<td>API class: CD or higher, SAE grade: #20 or #30</td>
<td>API class: CD or higher, SAE grade: 15W-40</td>
</tr>
<tr>
<td><strong>Max. lube oil capacity</strong></td>
<td>0.5 L</td>
<td>0.65 L</td>
<td>2.8 L</td>
</tr>
<tr>
<td><strong>Dry weight - engine &amp; gear/drive</strong></td>
<td>204 kg [450 lbs]</td>
<td>205 kg [452 lbs]</td>
<td>236 kg [520 lbs]</td>
</tr>
</tbody>
</table>

* Other marine gearboxes and configurations available upon request. Contact your local supplier for more information.

**INSTRUMENT PANELS**

**ACCESSORIES**

**Standard engine package**
- Exhaust mixing elbow [L-type]
- Alternator 12V - 125A
- B25 panel
- Flexible mounts
- Mechanical throttle sensor
- Fuel pre-filter with water separator
- Fresh water expansion tank
- Belt safety cover

**Optional accessories**
- High-riser mixing elbow [instead of L-elbow]
- Secondary alternator 12V - 125A or 24V - 60A
- C35 panel
- Extension harness [3m, 5m, 10m]
- Second station
- TFX Sidemount control head
- VC20 Vessel Control System

**Other accessories**
- NMEA2000 Engine monitoring system
- Semi 2-pole
- SOLAS including Certificate [factory fit only]
- Hot water kit with cocks
- Extension saildrive leg [75 mm]
- Propeller cone nut kit SD60
- On-board spare parts kit

NOTE: All data subject to change without notice. Text and illustrations are not binding.

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