**Features**

**Clean Emissions**
Building off the proven TNE design, Yanmar has achieved superior exhaust emissions by improving the combustion chamber and fuel injection equipment design. Engines are compliant with EPA Interim Tier 4 and EU stage III A exhaust emissions regulations.

**Reliable and Durable**
The TNV engines now proudly take up the running as Yanmar’s premium small industrial diesel. They offer even more enhanced durability due to better block cooling, a stiffer crank and pistons, finer tolerance in the journal, and more. CAE analysis has brought lower vibrations and higher strength to the mounting structure for even better reliability in heavy-duty jobs.

**Fuel Delivery and Economy**
A newly designed, MP distributor type fuel injector pump is utilized to assure more precise fuel delivery and control. The result is reduced emissions, improved performance over a wide range of applications and good fuel economy which assures that Yanmar’s reputation for superior starting characteristics continues.

**Noise Level Reduction**
Yanmar’s original CAE techniques have optimized the stiffness, minimized transformation, and reduced radiant noise in the cylinder block. Gear noise reduction is achieved through an improved gear tooth profile resulting in less mechanical noise.

**Additional Information**
Yanmar America Corp
951 Corporate Grove Drive
Buffalo Grove, IL 60089
www.yanmar.com

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**3TNV88-BDSA2 General Specification**
36.1 HP (26.9 kW) @ 3000 rated rpm*

<table>
<thead>
<tr>
<th>Type</th>
<th>3 Cylinder, 4-Cycle, Liquid Cooled Diesel Engine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bore</td>
<td>88 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>90 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>1.642 L</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Naturally Aspirated</td>
</tr>
<tr>
<td>Combustion System</td>
<td>Direct Injection</td>
</tr>
<tr>
<td>Rotation (from flywheel end)</td>
<td>Counterclockwise</td>
</tr>
<tr>
<td>Dry Weight</td>
<td>308 lbs (140 kg)</td>
</tr>
</tbody>
</table>

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**Standard Engine Equipment**

**General**
Intake & Exhaust Manifold
Muffler/Exhaust Pipe Gasket (shipped loose)

**Lubrication System**
6.7 L Capacity Deep Oil Pan, Side Drain
Trochoid Oil Pump
Paper Element Oil Filter
Oil Pressure Switch
Crankcase Breather, Closed Type

**Electrical System**
12V, 40 Amp Alternator
12V Starter Motor
12V, 400W Glow Plugs
Preheat Relay (shipped loose)
Preheat Timer (shipped loose)
Stop Solenoid Timer (shipped loose)

**Fuel System**
MP2 Distributor Type Fuel Injection Pump
12V Electric Fuel Pump (shipped loose)
Paper Element Fuel Filter
Water Separator (shipped loose)
Stop Solenoid, Integral to Fuel Injection Pump

**Cooling System**
Water Pump, Belt Driven
7-Blade, 360mm Cooling Fan—Puller Type
21° C (160° F) Thermostat
Temperature Switch
Fan Belt

**Power Take Off**
Flywheel, SAE 7 1/2"
Flywheel Housing, semi SAE #5 (88 mm deep)
Aux Drive, For a 9-tooth w/SAE 2 bolt “A” Flange
3TNV88-BDSA
Industrial Diesel Engine

Performance Data

Dimensions

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**Dimensions**

<table>
<thead>
<tr>
<th>Length</th>
<th>22.3 in (567 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>20.4 in (517 mm)</td>
</tr>
<tr>
<td>Height</td>
<td>26.3 in (667 mm)</td>
</tr>
</tbody>
</table>

Note: Dimensions depend on final specifications.

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**Rated Speed (rpm) | Net rated kW | Net rated HP | Max. Torque (ft-lb)**
--- | --- | --- | ---
3000 | 26.9 | 36.1 | 79.5 @ 1800 rpm

**Ratings Definitions and Conditions**

*Rated power listed is NET engine output. The engine operating environment and driven machine conditions must be studied carefully when selecting an engine in order to ensure correct engine selection, maximize engine performance, extend engine service life and improve machine capacity.

Consult the TNV Application Manual for additional engine ratings and engine application information.

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