NEF

N67 MNT

FOR INDUSTRIAL APPLICATIONS
6 CYLINDER IN-LINE - DIESEL CYCLE
129 kW (173 hp) @ 2300 rpm
700 Nm (516.3 lb.ft) @ 1400 rpm
### Thermodynamic cycle
- Diesel 4 stroke - D.I.

### Aspiration
- TAA

### Configuration
- 6L

### Bore x Stroke
- mm (in.) 104 X 132 (4.10 X 5.20)

### Total displacement
- liters (cu. in.) 6.7 (409)

### Valves per cylinder
- 2

### Cooling
- liquid

### Direction of rotation (viewed facing flywheel)
- CCW

### Compression ratio
- 17.5 : 1

### Rotation mass moment of inertia (without flywheel)
- kgm$^2$ (lbf ft$^2$) 0.31 (7.36)

### Standard flywheel inertia
- kgm$^2$ (lbf ft$^2$) 0.71 (16.85)

### Air induction
- Max suggested intake restriction with clean air filter kPa (in. H$_2$O) 3.5 (14)
- Max allowable restriction with dirty air filter kPa (in. H$_2$O) 6.5 (26)
- Air requirement for combustion at 100% load/rated speed kg/h (lb/h) 840 (1852)
- Turbocharging pressure at full load/rated speed kPa (psi) 115 (16.7)
- Turbocharging air max temperature (engine inlet) °C (°F) 55 (131) @ 77°F amb.
- Heat rejected to intercooler at maximum power kW (BTU/min) 21 (1195)
- Intercooler system max pressure drop kPa (in. H$_2$O) 7 (28.1)

### Exhaust system
- Max allowable backpressure kPa (in. Hg) 10 (2.95)
- Max exhaust temperature at full load/rated speed °C (°F) 450 (842)
- Exhaust flow at max output kg/h (lb/h) 890 (1962)

### Lubrication system
- Minimum oil pressure at idle kPa (psi) 70 (10.15)
- Max oil temperature at full load/rated speed °C (°F) 120 (248)
- Engine angularity limits continuous operation: max front up and front down degrees 35
- max left hand and right hand degrees 35
- Total system capacity including pipes, filters etc. liters (quarts) 17.2 (18.2)

### Cooling system
- Coolant capacity (engine only) liters (quarts) 10.5 (11)
- Water pump flow at rated speed m$^3$/h (gal/min) 12 (52.8)
- Heat rejected to coolant at max power kW (BTU/min) 69.4 (3950)
- Thermostat (operating range) °C (°F) 83 to 95 (181 to 203)
- Cooling liquid max temperature °C (°F) 103 (217)
- Min/max pressure in the cooling circuit system kPa (psi) 30/100 (4.35/14.5)
- Radiator max pressure drop kPa (psi) 35 (5)

### Fuel system
- Injection system Mechanical
- Fuel inlet max restriction kPa (in. H$_2$O) 15 (60.2)
- Fuel inlet max temperature °C (°F) 60 (140) @ 77°F amb.

### Electrical system
- Voltage V 12
**N67 MNT FOR INDUSTRIAL APPLICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Unit 1</th>
<th>Unit 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum rating *</td>
<td>kW(hp)</td>
<td>129 (173)</td>
</tr>
<tr>
<td>At speed</td>
<td>rpm</td>
<td>2300</td>
</tr>
<tr>
<td>Maximum torque</td>
<td>Nm (lb. ft)</td>
<td>700 (516.3)</td>
</tr>
<tr>
<td>At speed</td>
<td>rpm</td>
<td>1400</td>
</tr>
<tr>
<td>Maximum no load governed speed</td>
<td>rpm</td>
<td>2500</td>
</tr>
<tr>
<td>Minimum idle speed</td>
<td>rpm</td>
<td>800</td>
</tr>
<tr>
<td>Mean piston speed at rated rpm</td>
<td>m/s (ft/s)</td>
<td>10.1 (33.1)</td>
</tr>
<tr>
<td>BMEP at max torque</td>
<td>kg/cm² (psi)</td>
<td>13.37 (190.31)</td>
</tr>
<tr>
<td>Available certifications</td>
<td></td>
<td>EPA Tier 2 - EC 97/68 Phase 2</td>
</tr>
<tr>
<td>BSFC</td>
<td>g/kWh (lb/hp h) @ rpm</td>
<td>205 (0.337) @ 1400</td>
</tr>
<tr>
<td>Oil consumption at max rating</td>
<td>% of fuel consumption</td>
<td>0.1</td>
</tr>
<tr>
<td>Noise at rated power (ISO 3744)</td>
<td>dBA</td>
<td>94</td>
</tr>
<tr>
<td>Minimum starting temperature without aids</td>
<td>°C (°F)</td>
<td>-15 (5)</td>
</tr>
<tr>
<td>Oil and oil filter maintenance interval for replacement</td>
<td>hours</td>
<td>500</td>
</tr>
<tr>
<td>Dry weight (standard configuration)</td>
<td>kg (lb)</td>
<td>530 (1168)</td>
</tr>
</tbody>
</table>

*Power at flywheel according to 97/68 EC (without fan), after 50 hours running, 3% tolerance, fuel Diesel EN 590

**Test conditions:** ISO 3046/1, 25 °C air temperature, 100 kPa atmospheric pressure, 30 % relative humidity - Applicable also to DIN 6271, BS 5514, SAE J1349 Standards.

**FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE IVECO MOTORS SALES NETWORK.**

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**Graphs:**

- **Power - kW**
- **Torque - Nm**
- **BSFC - g/kWh**

**Dimensions:**

- **L = 1054 mm (41.5 in)**
- **W = 671 mm (26.4 in)**
- **H = 1027 mm (40.5 in)**
### N67 MNT FOR INDUSTRIAL APPLICATIONS

**Standard configuration**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flywheel housing</td>
<td>SAE 3</td>
</tr>
<tr>
<td>Flywheel diameter</td>
<td>in. 11.5</td>
</tr>
<tr>
<td>Intake manifold location</td>
<td>left side / forward inlet</td>
</tr>
<tr>
<td>Exhaust manifold / turbocharger orientation</td>
<td>right side / forward outlet</td>
</tr>
<tr>
<td>Turbocharger</td>
<td>waste gate controlled</td>
</tr>
<tr>
<td>Turbocharger location</td>
<td>high / right side</td>
</tr>
<tr>
<td>Fan drive ratio</td>
<td>1.41 : 1</td>
</tr>
<tr>
<td>Distance from fan to crankshaft center</td>
<td>mm (in.) 296 (11.66)</td>
</tr>
<tr>
<td>Fuel filter</td>
<td>1 - left side</td>
</tr>
<tr>
<td>Fuel prefilter</td>
<td>-</td>
</tr>
<tr>
<td>Fuel pump</td>
<td>included</td>
</tr>
<tr>
<td>Oil filter</td>
<td>1 - right side</td>
</tr>
<tr>
<td>Oil sump</td>
<td>sheet / front sump</td>
</tr>
<tr>
<td>Oil vapors blow-by-circuit</td>
<td>on valve cover</td>
</tr>
<tr>
<td>Oil heat exchanger</td>
<td>built in the crankcase</td>
</tr>
<tr>
<td>Oil filter</td>
<td>on valve cover 1st cylinder</td>
</tr>
<tr>
<td>Exhaust mounting flange</td>
<td>included</td>
</tr>
<tr>
<td>Starter motor</td>
<td>12 V - 3 kW</td>
</tr>
<tr>
<td>Alternator</td>
<td>12 V - 90 A with W contact</td>
</tr>
<tr>
<td>Engine shut-off</td>
<td>electrical excitation</td>
</tr>
<tr>
<td>Wiring harness</td>
<td>-</td>
</tr>
<tr>
<td>Power take off (PTO)</td>
<td>optional</td>
</tr>
<tr>
<td>PTO transmission ratio</td>
<td>1.03 : 1</td>
</tr>
<tr>
<td>PTO maximum available torque</td>
<td>240 Nm (177.0 lb ft) - (SAE B 13 teeth)</td>
</tr>
<tr>
<td>Painting</td>
<td>color grey</td>
</tr>
</tbody>
</table>

**Not included in the standard configuration**

- Battery - minimum capacity recommended: 180 Ah (12 V)
- Battery - minimum cold cranking capacity recommended: 800 CCA (12 V)

**IVECO MOTORS OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY.**

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