

SPECIFICATIONS

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|--|-----------------|
| Thermodynamic Cycle | Diesel 4 stroke |
| Air Handling | NA |
| Arrangement | 4L |
| Bore x Stroke (mm) | 104 X 132 |
| Total Displacement (l) | 4.5 |
| Valves per cylinder (n°) | 2 |
| Cooling System | liquid |
| Direction of Rotation (viewed facing flywheel) | CCW |
| Compression ratio | 17.5:1 |
| Injection System | DI |

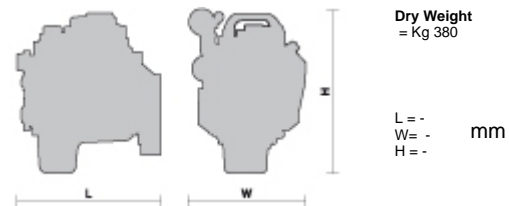
PERFORMANCE

| | |
|---|-------------------|
| Rated power [*] (kW (HP) @ rpm) | 60 (81) @ 2300 |
| Peak power (kW (HP) @ rpm) | - |
| Peak torque (Nm (kgm) @ rpm) | 320 (33) @ 1400 |
| High idle speed (rpm) | 2480 |
| Low idle speed (rpm) | ± 650 |
| DEF[**]/AdBlue consumption at peak torque and rated power (% of fuel cons.) | - |
| Minimum starting temperature without auxiliaries (°C) | -15 ° |
| Oil and oil filter maintenance interval for replacement [***] (hours) | 500 |

STANDARD CONFIGURATION

| | |
|--|------------------------------|
| Flywheel housing (type) | 3 |
| Flywheel size (inch) | 10" |
| Intake manifold location | left side / backward inlet |
| Exhaust manifold location | right side / upward outlet |
| Turbocharger | - |
| Turbocharger location | - |
| Fan transmission ratio | 1.41:1 |
| Distance between fan - crankshaft centers (mm) | X = 0 Y = 296 |
| Fuel filter (n°) | 1 - left side |
| Fuel prefilter | - |
| Fuel Pump | - |
| Oil filter (n°) | 1 - right side |
| Oil sump | sheet steel/front well |
| Oil vapours blow-by circuit | on timing cover |
| Oil heat exchanger | built in the crankcase |
| Oil filler | on timing cover 1st cylinder |
| Starter | 12V - 3kW |
| Alternator | 12V - 90A with W contact |
| Hydraulic steering pump (liters/min) | - |
| Maximum torque available from crankshaft pulley (Nm) | - |
| Engine stop device | electrical excitation |
| Wiring harness | - |
| Painting color | grey |

WEIGHT AND DIMENSIONS



NOT INCLUDED IN STANDARD CONFIGURATION

| | |
|--|--|
| Power Take Off (PTO) | - |
| PTO - transmission ratio | 1.03:1 |
| PTO - maximum available torque | SAE A 100Nm (9 teeth) - 150Nm (11 teeth) |
| | SAE B 240Nm (13 teeth) |
| Battery - minimum capacity recommended [*] (Ah) | 180 Ah (12V) |
| Battery - minimum cold cranking capacity recommended [*] (A) | 950 A (12V) |

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

Legend

| | | | | | |
|-----------------------------------|---|---|--|---|---|
| Arrangement L (in line) | Air Handling TAA (Turbocharged with aftercooler) TC (Turbocharged) NA (Naturally Aspirated) | Turbocharger WG (Wastegate) VGT (Variable Geometry Turbocharger) TST (Twin Stage Turbocharge) | Injection System M (Mechanical): ECR (Electronic Common Rail) EUI (Electronic Unit Injector) | Emission Standard EEV (Enhanced Environmentally friendly Vehicle) | Exhaust System EGR (Exhaust Gas Recirculation) SCR (Selective Catalytic Reduction) |
|-----------------------------------|---|---|--|---|---|

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