

SPECIFICATIONS

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

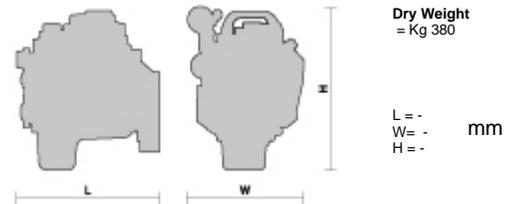
PERFORMANCE

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)	380

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)
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 D5E 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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