



4M06V4D0

Ratings

Maximum power at maximum speed (kWm	ı)41
Maximum power at maximum speed (HP)	55

Speed - Rpm	1500	1600	1700	1800	1900	2000	2100	2200
	Net Engine Continuous Limit Power							
Power - kWm	25	27	29	31	1	1	1	1
Specific fuel consumption at 100% of engine power								
gr/kWh	211.7	211.4	211.2	210.9	1	1	1	1
	Fuel consumption tolerance : +/- 5 %							

Basic data

Engine model		4M06V4D0
N° of Cylinders / Valves		4 / 8
Cylinders arrangement		In line
Bore x Stroke (mm)		89 × 92
Displacement (L)		2.3
Thermodynamic Cycle		Diesel 4 stroke
Cooling System		Liquid (water + 50% antifreeze)
Injection System		Direct
Fuel System		Mechanical Pump
Aspiration		Turbocharged
Compression ratio		17.5 : 1
Flywheel housing		SAE 3
Flywheel		11.5"
N° of teeth on flywheel ring ge	ear	128
Inertia of flywheel (kg•m²)		0.47
Inertia of crankshaft (kg•m²)		0.039
Emission standard		N/A
Overall Dimensions with radiator (Length x Width x Height) (mm)1136 × 635 × 785		
Engine dry weight without radiator and without radiator pipes (kg)\		
Engine dry weight with radiator and radiator pipes (kg)		
Engine wet weight with radiator (includes oil, coolant) (kg)		









Air intake system

Air intake temperature rise (°C)	≤ 5
Air intake restriction clean filter (mBar)	≤ 35
Air intake restriction dirty filter (mBar)	≤ 60
Recommended air flow at 1800 Rpm at max Continuous Limit Power (m³/min)	
Min. diameter of intake pipe (mm)	
Aftercooling system	
Aftercooler system type	N/A
Aftercooler heat dissipating capacity at 1800 Rpm at max Continuous Limit Power (kJ/s)	N/A
Max. intake temperature @ 25°C ambient temperature (°C)	N/A
Max. difference between intake temperature and ambient temperature (°C)	N/A
Max. intake pressure drop of aftercooler (mBar)	N/A
Lubrication system	
Oil capacity Low / High (L)	7.1 / 9.5
Oil pressure in normal condition idle speed (Bar)	≥ 1
Oil pressure in normal condition at 1800 Rpm at max Continuous Limit Power (Bar)	2 - 5
Lowest oil pressure alarm (shutdown) (Bar)	1
Max. oil temperature (°C)	115
Oil flow (L/min)	22
Oil fuel consumption ratio based on engine fuel consumption data	≤ 0.4 %
Total system capacity (including filters) (L)	11.5
Heat balance test data (with ambient temperature 28 °C)	
Total heat dissipation at maximum speed at maximum power (kJ/s)	56.8
Exhaust system	
Max. exhaust back pressure (mBar)	80
Max. exhaust temperature before turbocharger (°C)	≤ 700
Max. exhaust temperature after turbocharger (°C)	≤ 650
Exhaust flow at 1800 Rpm at max Continuous Limit Power (m³/min)	8.03
Min. diameter of exhaust pipe (mm)	50
May bending moment of exhaust gas exit flange (Nm)	10











Cooling system with standard radiator

System designed for ambient	t temperature up to (°C) ¹	50
Radiator type		Mechanical
Fan type		Pusher driven by belt(s)
Min. inside diameter of coola	nt outlet pipe (mm)	32
Coolant capacity of radiator a	and pipes (L)	11
Coolant alarm (shutdown) ter	mperature (°C)	105
Thermostat opening tempera	ture / full open temperature (°C)	72 / 82
Min. pressure in cooling syste	em (Bar)	0.15
Coolant capacity of the engin	e (L)	5
Cooling fan airflow at 1800 R	pm at max Continuous Limit Power (m³/min)	58
Max additional restriction - Do	uct allowance (Pa)	50
Fan absorbed power at 1800	Rpm (kW)	1
Fuel system		
Governor		Mechanical
Fuel cut off stopping system		Energized to run type
Max. restriction at fuel pump	inlet (Bar)	
Max. fuel return restriction (B	ar)	
Max. fuel inlet temperature (°	C)	70
Fuel supply flow at 1800 Rpn	n at max Continuous Limit Power (L/hr)	40.2
Min. pressure of fuel pump (E	Bar)	1.3
Min. diameter of inlet pipe (m	m)	10
Min. diameter of return pipe (mm)	10

Electrical system

Electrical system voltage (negative to ground) (Vdc)	12
Starter power (kW)	3.7
Battery charger current (A)	55
Battery charger absorbed power (kW)	8.0
Max. electric resistance of starting circuit (Ω)	0.004
Min. sectional area of wire (mm²)	50
Min. cold start temperature without auxiliary starting device (°C)	5

The indicated value is based on an AOT value of 50°C for an engine tested at 1800 Rpm at max Continuous Limit Power, in an open condition, without an enclosure or container, without any airflow obstruction in the front of the radiator, without air recirculation, with free exhaust gas exit and with the engine thermostatic valve in its full open condition, without a closing plate present.



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Noise

Diesel engine noise (Acoustic power level) (dB(A))	107.7
Noise - upper side (dB(A))	91.7
Noise - right side (view from flywheel) (dB(A))	91.1
Noise - left side (view from flywheel) (dB(A))	
Noise – front (radiator) side (dB(A))	95.1
Noise – rear (flywheel) side (dB(A))	95.5

- Noise test made at 1800 Rpm at 100% of the power, 1 mt. distance, on engine without radiator, without cooling fan and without silencer.
- Noise test refers to GB/T 1859 norm: Reciprocating internal combustion engines. "Measurement of emitted airborne b) noise. Engineering method and survey method".



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- All ratings are based on operating conditions under ISO 3046, DIN6271. Performance tolerance of ±5%. 1)
- 2) Test conditions: 100 kPa, 25°C air inlet temperature, relative humidity of 30%, with fuel density 0.84 kg/L. Derating may be required for conditions outside these; please contact the factory for details.
- Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump; not included are battery charging alternator, fan and optional equipment.



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