N4.85 Specifications



Power at crankshaft	62.5 kW [85 hp]
Displacement	3.053 l [186 in ³]
Configuration	4 cylinders in line 4 valves per cylinder
Operation type	4 stroke Diesel
Bore & Stroke	94 x 110 mm [3.7 x 4.33 in]
Compression ratio	20:1
Rated speed	2800 rpm
Idle speed	875 rpm
Peak torque	253 Nm
Peak torque speed	1800 rpm
Dry weight with TM345A	356 kg [784 lb]

Engine base	Kubota
Fuel system	Mechanical direct injection
Air intake	Turbocharged
Cooling	Closed cooling with heat exchanger
Mounting angle	7° Front up 7° Front down
Alternator	12 Volt
	100 Amp
Rating	M4
Emission compliand	
	BSO 2



N4.85 62.5 kW [85 hp] @ 2800 rpm

TECHNICAL DESCRIPTION

Engine block

- 4 cylinders in line
- 4 valves per cylinder
- Gear-driven valve train
- Watercooled exhaust manifold

Fuel system

- Mechanical governor
- Cam driven in-line injection pump
- Fuel feed pump
- Fuel filter with hand primer

Lubrication system

- Replaceable full-flow oil filter
- Oil dipstick
- Oil drain pump

Cooling system

- Closed cooling with heat exchanger
- Gear driven self-priming raw water pump
- Coolant circulating pump
- Water cooled exhaust elbow

Electrical system & Instrumentation

- 12V Electrical system
- 12V 100A alternator
- Electric starter motor
- Electric stop function
- Instrumentation panel, including Start/Stop, tachometer, coolant temperature & oil pressure indicators, alarms
- Extension cable harness with plug-in connection

Air intake

Turbocharger

Mounted air cleaner

Other features

- Flexible engine mounting
- Bracket for control cables

Optional equipment & accessories

- Keel cooling adaptation
- Complete marine propulsion systems
- Throttle and shift controls
- Additional instrumentation, Flying bridge
- extension harness Engine mounting adaptation
- Two pole electrical system
- Water boiler systems
- SOLAS approved version
- Complete fuel systems
- Stuffing box connections
- Complete exhaust systems
- Trolling valve

RATING

- Up to 3000 annual operating hours
- Load factor up to 40%
- Full power for no more than 1 hour out of each 12 hours of operation. The remaining operation time must be at or below cruising speed

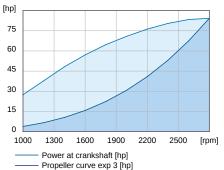
TRANSMISSIONS

- Shaft line
- TM345A
- TMC260
- TTMC5A
- ZF25A

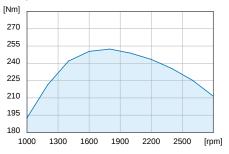
Contact your local dealer for more details and availability for transmission model and type.

PERFORMANCE CURVES

Power at crankshaft

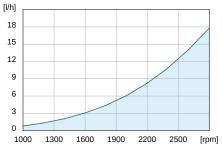


Torque at crankshaft

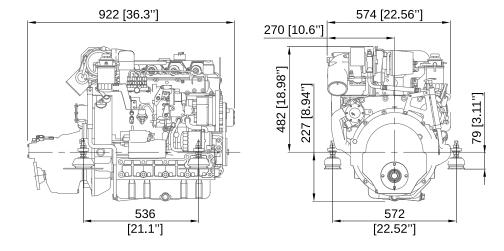


Fuel consumption

At calculated propeller load exp 3



DIMENSIONS WITH TM345A



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Via Degli Olmetti, 5/B 00060 Formello (RM) - Italia Tel: +39 (0)6 30 88 42 51/52/53 Fax: +39 (0)6 30 88 42 54 Technical data according to ISO 8665. Specifications are subject to change without notice. Images and illustrations may shown non standard equipments. All combination of equipment & accessory are not available. 120914-ENG