

# N40 250

## N40 ENT M25

### 4 CYLINDERS IN LINE - DIESEL CYCLE

184 kW (250 HP) @ 2800 rpm (A1)

147 kW (200 HP) @ 2800 rpm (B)

125 kW (170 HP) @ 2800 rpm (C)

#### Specifications

Thermodynamic cycle		Diesel 4 stroke
Air intake		TAA
Arrangement		4L
Bore x Stroke	mm	102 x 120
Total displacement	l	3.9
Valves per cylinder	n.	4
Cooling system		liquid
Direction of rotation (viewed facing flywheel)		CCW
Engine management		electrical
Injection system		Electronic Common Rail (E.C.R.)

#### Electrical system

Voltage	V	12
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#### Standard configuration

Flywheel housing	type	SAE 3
Flywheel size	inch	11 ½
Air filter		rear side
Turbocharger		Fixed Geometry (water cooled) Turbo with Aftercooler (TAA)
Heat exchanger		tube type
Exhaust gas - water mixer		-
Water charge tank		included
Fuel filter	n.	1
Fuel prefilter		included (loose)
Fuel pump		included
Oil filter	n.	1
Oil sump		aluminium
Oil vapours blow-by circuit		rear
Oil heat exchanger		built in the crankcase
Oil filler		on timing cover
Starting motor		12V - 3kW
Alternator		12V - 90A
Engine stop device		by electronic central unit
Wiring harness		with EDC (Engine Diesel Control)
Painting	color	white "ICE"

#### Not included in the standard configuration

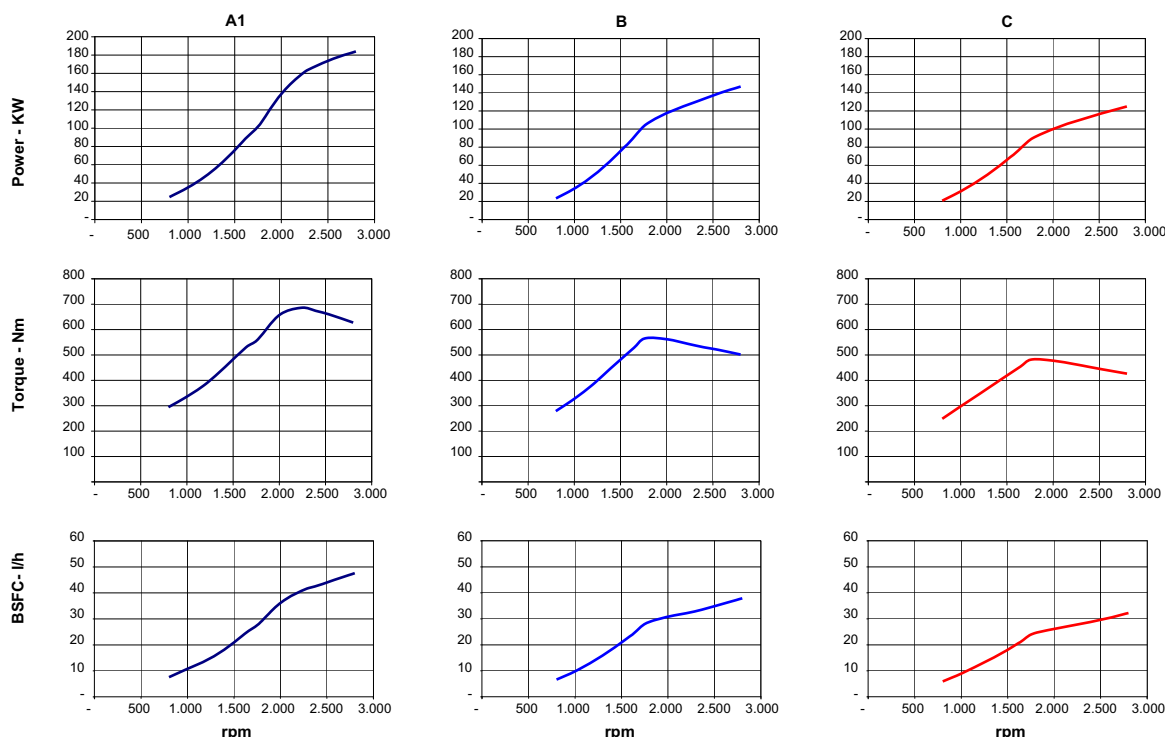
Battery - minimum capacity recommended		120 Ah
Battery - minimum cold cranking capacity recommended		900 A

FPT OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE, CONTACT THE FPT SALES NETWORK.

Rating type		A1	B	C
Maximum power [*]	kW(HP)	184 (250)	147 (200)	125 (170)
At speed	rpm	2800	2800	2800
Maximum no load governed speed at max rating	rpm	3000	3000	3000
Minimum idling speed	rpm	700	700	700
Mean piston speed at rated speed	m/s	11.2	11.2	11.2
BMEP at max power	kg/cm <sup>2</sup>	22.1	18.3	15.6
Specific fuel consumption at full load (best value)	g/kWh @ rpm	212 @ 2400		
Oil consumption at max rating	(% of fuel cons.)	≤ 0.1		
Minimum starting temperature without auxiliaries	°C	-10°		
Oil and oil filter maintenance interval for replacement	hours	600		

\* **Net Power** at flywheel according to ISO 3046/1, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

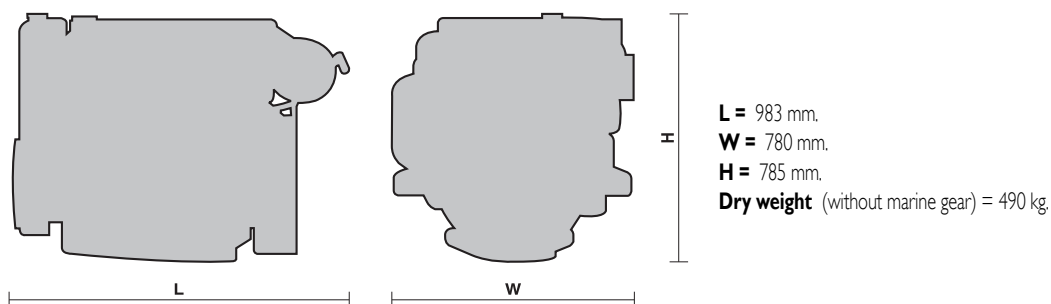
**Test conditions:** ISO 3046/1, 25 °C air temperature, 100 kPa atmospheric pressure, 30 % relative humidity .



**A1** = High performance crafts.  
 Full throttle operation restricted within 10% of total use period.  
 Crushing speed at engine rpm < 90% of rated speed setting.  
 Maximum usage 300 hours per year.

**B** = Light duty.  
 Full throttle operation restricted within 10% of total use period.  
 Crushing speed at engine rpm < 90% of rated speed setting.  
 Maximum usage 1500 hours per year.

**C** = Medium duty.  
 Full throttle operation < 25% of use period.  
 Crushing speed at engine rpm < 90% of rated speed setting.  
 Maximum usage 3000 hours per year.



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 Specifications subject to change without notice.  
 Illustrations may include optional equipment.