



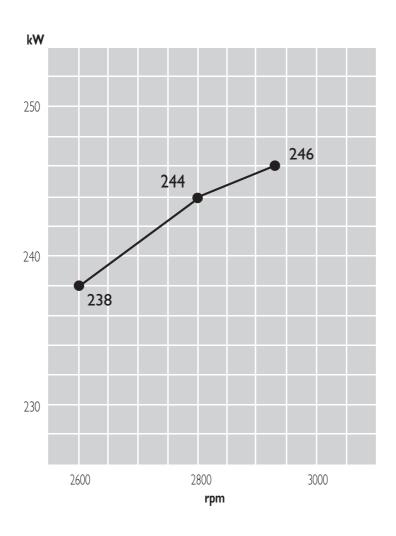
N67 MNS F40 FOR FIRE FIGHTING PUMPS

Thermodynamic cycle		Diesel 4 stroke - D.I
Air intake		TAA
Arrangement		6L
Bore x Stroke	mm	104 X 132
Total displacement		6.7
Valves per cylinder		2
Cooling		liquid
Direction of rotation (viewed facing flywheel)		CCW
Compression ratio		17.5 : 1
Rotation mass moment of inertia (without flywheel)	kgm²	0.31
Standard flywheel inertia	kgm²	0.70
Air induction		
Max suggested intake restriction with clean air filter	kPa (bar)	3.5 (0.035)
Max allowable restriction with dirty air filter	kPa (bar)	6.5 (0.065)
Air requirement for combustion at 100% load/rated speed	kg/h (m³/h)	1430 (1220)
Turbocharging pressure at full load/rated speed	kPa (bar)	170 (1.7)
Turbocharging air max temperature (engine inlet)	°C	55
Heat rejected to intercooler at maximum power	kJ/s (kcal/h)	47.5 (40,850)
ntercooler system max pressure drop	kPa (bar)	10 (0.10)
Exhaust system		
•	LD. (L)	7 (0.07)
Max allowable backpressure	kPa (bar) °C	7 (0.07)
Max exhaust temperature at full load/rated speed (after turbo) Exhaust flow at max output		600 1485
extradist flow at max output	kg/h	1703
Lubrication system		
Minimum oil pressure at idle	kPa (bar)	70 (0.7)
Max oil temperature at full load/rated speed	°C	120
Engine angularity limits continuous operation: max front up and front down	0/360	25
max left hand and right hand	0/360	25
Total system capacity including pipes, filters etc.	liters	12.8
Cooling system		
Coolant capacity (engine only)	liters	8.5
Water pump flow at rated speed	m³/h	15
Heat to reject by heat exchanger at max power	kJ/s (kcal/h)	110 (96,500)
Thermostat (modulating range)	°C	83 ÷ 95
Cooling liquid max temperature	°C	103
Min/max inner pressure in the cooling circuit	kPa (bar)	30/100 (0.3/1)
External cooling system max pressure drop	kPa (bar)	35 (0.35)
V		
Fuel system		D .
njection system	ID //) 0	Rotary pump
Gas oil max intake restriction	kPa (bar) 0	(positive head)
Gas oil intake reference temperature	°C	30
Electrical system		
Electrical system		

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Engine gross power ratings *	rpm	2600	2800	2940	
	kW	238	244	246	
	HP	324	332	335	
Specific fuel consumption at maximum rating	g/kWh @ rpm		229 @ 2940		
Oil consumption at max rating	(% of fuel consumption)		0.1		
Minimum starting temperature without auxiliaries	°C		-15		
Dry weight (standard configuration)	kg		530		

^{*} **Gross Power** at flywheel according to ISO POWER 3046. Applicable also to DIN 6271, B.S. 5514 and SAE J 1349. **Test conditions**: ISO 3046/1, 25 °C air temperature, 100 kPa atmospheric pressure, 30 % relative humidity.



Dimensions

L = 1046 mm

W = 670 mm

H = 1003 mm

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Engine selection

In order to select an engine determine the maximum power absorbed by the pump at the top of the appropriate impellor curve and add a 10% margin to this power requirement. This now determines the minimum power requirement for fire pump duty. An appropriate selection should then be made using the engine gross power output after deduction of the fan absorption.

Standard configuration (version N67 MNT F40.10)

Flywheel housing prearranged for pick-up	type	SAE 3	
Flywheel size	inch	11'' ½	
Intake manifold location		left side / upward inlet	
Exhaust manifold / turbocharger location		right side	
Turbocharger		adjusted, with waste gate	
Turbocharger location		high position	
Fan transmission ratio		1.12 to 1	
Distance between fan - crankshaft centers	mm	296	
Fuel filter	n°	1 - left side	
Fuel prefilter		-	
Fuel pump		included	
Oil filter	n°	1 - right side	
Oil sump		sheet steel / front well	
Oil vapours blow-by circuit		on timing cover	
Oil heat exchanger		included	
Oil filler		on timing cover 1st cylinder	
Exhaust counter flange		included	
Starting motor		24 V - 4 kW	
Alternator		24 V - 90 A with W contact	
Engine stop device		electrical excitation	
Wiring harness		-	
Painting	colour	grey	
Not included in the standard configuration			
Battery - minimum capacity recommended		180 Ah (24 V)	
Battery - minimum cold cranking capacity recommended		800 A (24 V)	

Standard configuration (version N67MNT F40.01)

Differs from the version N67 MNT F40.10 for:

- Turbocharging air / water heat exchanger
- without fuel pump.

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.

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