

# N67 MNT F41

222 kW @ 2940 rpm

Engine N67 MNT F41

Technical code		F4GE0687A*B6XX
Thermodynamic cycle		Diesel 4 strokes - D.I.
Air intake		TAA
Arrangement		6L
Bore x Stroke	mm	104 X 132
Total displacement	L	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)	kgm <sup>2</sup>	0,31
Standard flywheel inertia	kgm <sup>2</sup>	0,7

## 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 (0,045)
Air requirement for combustion at 100% load/rated speed	kg/h(m <sup>3</sup> /h)	1410 (1200)
Turbocharging pressure at full load/rated speed	kPa(bar)	160 (1,6)
Turbocharging air max temperature (engine inlet)	°C	55
Heat rejected to intercooler at maximum power	kJ/s(kcal/h)	44,5 (38.400)
Intercooler system max pressure drop	kPa(bar)	10 (0,10)

## EXHAUST SYSTEM

Max allowable backpressure	kPa(bar)	7 (0,07)
Max exhaust temperature at full load/rated speed	°C	580
Exhaust flow at max output	kg/h	1460

## LUBRICATION SYSTEM

Minimum oil pressure at idle	kPa(bar)	70 (0,7)
Maximum oil pressure at max load	kPa(bar)	350 (3,5)
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	m <sup>3</sup> /h	15
Heat to reject by heat exchanger at max power	kJ/s(kcal/h)	105 (90.600)
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)

## FUEL SYSTEM

Injection system		Rotary pump
Gas oil max ir Gas oil max intake restriction	kPa(bar)	0 (positive head)
Gas oil max ir Gas oil max intake temperature	°C	30

## ELECTRICAL SYSTEM

Voltage	V	24
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Engine gross power ratings	kW	127	182	206	210	215	218	220	222
	hp	173	247	280	285	292	296	299	302
At speed	rpm	1470	1760	2100	2200	2350	2600	2800	2940
Specific fuel consumption at maximum rating	g/kWh @ rpm	235 @ 2940							
Oil consumption at max rating	(% of fuel consumption)	0,1							
Minimum starting temperature without auxiliaries	°C	-15							
Dry weight (standard configuration)	kg	530							
Length	mm	1046							
Width	mm	670							
Height	mm	1003							

**FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT SALES NETWORK.**

\* **Power** at flywheel according to 97/68 EC (without fan), after 50 hours running, 3% tolerance, fuel Diesel EN 590

**Test conditions** : ISO 3046/1, 25 °C air temperature, 100 kPa atmospheric pressure, 30 % relative humidity - Applicable also to DIN 6271, BS 5514, SAE J1349 Standards.

## 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 F41.10)

Flywheel housing	SAE	3
Flywheel size	inch	11' 1/2
Intake manifold location		left side / upward inlet
Exhaust manifold location		right side
Turbocharger		fixed geometry with waste gate
Turbocharger location		high position
Fan transmission ratio		1,12 : 1
Distance between fan - crankshaft centers	mm	x=0 ; y=296
Fuel filter	n°	single cartridge-left side
Fuel prefilter		-
Fuel pump		included

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## STANDARD CONFIGURATION (version N67 MNT F41.10)

Oil filter	n°	single cartridge - right side
Oil sump		sheet suspended / front sump/ 25°angulariy
Oil vapours blow-by circuit		open
Oil heat exchanger		incorporated in the block
Oil filler		on timing cover
Exhaust counter flange		included
Water engine / air heat exchanger		included
Turbocharging air / air heat exchanger		included
Starting motor		24 V - 4 kW
Alternator		24 V - 90 A
Engine stop device		incorporated in the pump
Coolant header tank		fitted on
Wiring harness		-
Painting	color	grey

## NOT INCLUDED IN THE STANDARD CONFIGURATION

Battery - minimum capacity recommended	180Ah (12V)
Battery - minimum cold cranking capacity recommended	800 A (24 V)

## Standard configuration (version N67MNT F41.01)

Differs from the version N67 MNT F41.10 for:

- Water engine / air heat exchanger	not included
- Turbocharging air / water heat exchanger	included
- Fuel Pump	not included

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