



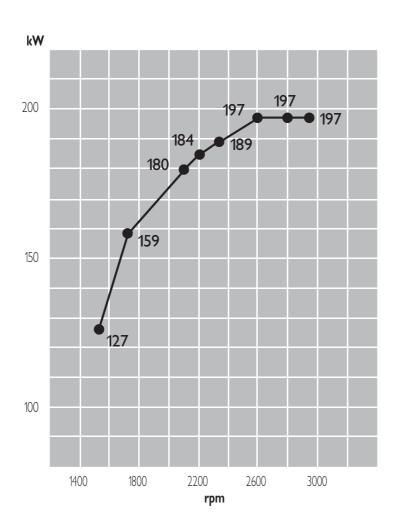
N67 MNT F42 FOR FIRE FIGHTING PUMPS

Activation Act	Thermodynamic cycle		Diesel 4 stroke - D.I.
Sore x Stroke mm 04 X 102 Total displacement 1 6.7 Alvises per cylinder 2 Cooling Iliquid Direction of rotation (viewed facing flywheel) CCW Compression ratio 775 : 1 Rotation mass moment of inertia (without flywheel) kgm² 0.31 Air induction	Air intake		TAA
Total displacement			6L
Values per volunder Cooling Ilquid Direction of rotation (viewed facing flywheel) CCW Compression ratio CCCW Compression ratio CCCW Compression ratio CCCW CCM Compression ratio CCCW CCM CCM CCM CCM CCM CCM CCM CCM CC	Bore x Stroke	mm	104 X 132
Cooling Iquid Crew Crew	Total displacement		6.7
CCW Compression ratio (viewed facing flywheel) CCW Compression ratio T75:1	Valves per cylinder		2
Compression ratio Rotation mass moment of inertia (without flywheel) kgm² 0.31 Standard flywheel inertia (without flywheel) kgm² 0.70 Air induction Max suggested intake restriction with clean air filter kPa (bar) 3.5 (0.035) **Tax allowable restriction with dirty air filter kPa (bar) 6.5 (0.065) **Air requirement for combustion at 100% load/rated speed kgh (m/h) 1330 (ff40) **Turbocharging pressure at full load/rated speed kPa (bar) 140 (t4) **Turbocharging pressure at full load/rated speed kPa (bar) 140 (t4) **Turbocharging air max temperature (ergine inlet) °C 55 **Heat rejected to intercooler at maximum power kJkjs (kcal/h) 39 (33.500) **Intercooler system max pressure drop kPa (bar) 10 (0.10) **Exhaust system **Wax allowable backpressure **Max exhaust temperature at full load/rated speed (after turbo) °C 530 **Exhaust flow at max output kg/h 375 **Lubrication system **Winimum oil pressure at idle kPa (bar) 70 (0.7) **Max oil emperature at full load/rated speed (after turbo) 0°C 530 **Exhaust flow at max output kg/h 375 **Lubrication system **Minimum oil pressure at idle kPa (bar) 70 (0.7) **Max oil emperature at full load/rated speed °C 500 **Engine angularity limits continuous operation: max front up and front down 07.60 25 **Intercooler system capacity including pipes, filters etc. **Cooling system Cooling system Cooling tystem Cooling tystem Cooling tystem Cooling tystem Cooling system Cooling system max pressure drop kPa (bar) 30 (0.63,800) Thermostat (modulating range) °C 93 (3.3) **Turbust incompany the pressure in the cooling circuit kPa (bar) 30 (0.00 (3.7) Thermostat (modulating range) °C 93 (3.3) **Turbust incompany term max pressure drop kPa (bar) 30 (0.00 (3.7) **Turbust max incompany term max pressure drop kPa (bar) 30 (0.00 (3.7) **Turbust max incompany term max pressure drop kPa (bar) 30 (0.00 (3.7) **Turbust max incompany term max pressure drop kPa (bar) 30 (0.00 (3.7) **Turbust max incompany term max pressure drop kPa (bar) 30 (0.00 (3.7) **Turbust max incompany ter	Cooling		liquid
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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) Max allowable restriction with dirty air filter kPa (bar) 6.5 (0.065) Air requirement for combustion at 100% load/rated speed kg/m (m²/h) 1330 (1140) Turbocharging pressure at full load/rated speed kPa (bar) 140 (14) Turbocharging air max temperature (engine inket) °C 55 Heat rejected to intercooler at maximum power kJ/s (kral/h) 39 (33,500) 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 (after turbo) °C 530 Schaust flow at max output kg/h 1375 Lubrication system Minimum oil pressure at idle kPa (bar) 70 (0,7) Max oil temperature at full load/rated speed (after turbo) °C 70 Engine angularity limits continuous operation: max front up and front down 0/360 25 Total system capacity including pipes, filters etc. liters 0.28 Cooling system Cooloing system Cooloing typicul max temperature (pipe only) kg/k (kcal/h) 95 Heat to reject by heat exchanger at max power kg/s (kcal/h) 100 (85,800) Thermostat (modulating range) °C 83 +95 Cooling liquid max temperature °C 103 Min/max inner pressure in the cooling circuit kPa (bar) 35 (0.35) Fuel system nijection system Cas oil max intake restriction kPa (bar) 0 (positive head) Selectrical system Rotary pump Gas oil max intake restriction C PC 30 Displaced and pressure control of positive head) Selectrical system	Compression ratio		17.5 : 1
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Max suggested intake restriction with dean air filter kPa (bar) 3.5 (0.035) Max allowable restriction with dirty air filter kPa (bar) 6.5 (0.065) Max allowable restriction with dirty air filter kPa (bar) 6.5 (0.065) Air requirement for combustion at 100% load/rated speed kgh (m/h) 130 (1140) Turbocharging pressure at full load/rated speed kPa (bar) 140 (1.4) Turbocharging pressure at full load/rated speed kPa (bar) 190 (0.10) Turbocharging air max temperature (engine inlet) °C 55 Heat rejected to intercooler at maximum power kPa (bar) 10 (0.10) Exhaust system Max allowable backpressure kPa (bar) 7 (0.07) Max exhaust temperature at full load/rated speed (after turbo) °C 530 Exhaust flow at max output kg/h 375 Lubrication system Winimum oil pressure at idle kPa (bar) 70 (0.7) Max oil temperature at full load/rated speed (after turbo) °C 120 Impine angulanty limits continuous operation: max front up and front down 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 mr/h 95 Heat to reject by heat exchanger at max power kly/s (kca/h) 100 (85,800) Filmmonstat (modulating range) °C 83 - 95 Cooling liquid max temperature (point load/rated speed mr/h 95 File system Social intake reference temperature °C 30 Ecternal cooling system max pressure drop kPa (bar) 30 (0.37) External cooling system max pressure drop kPa (bar) 0 (positive head) Gas oil intake reference temperature °C 30	Standard flywheel inertia	kgm²	0.70
Max allowable restriction with dirty air filter kPa (bar) 6.5 (0.065) **ir requirement for combustion at 100% load/rated speed kg/h (m²/h) 1330 (1140) Turbocharging pressure at full load/rated speed kPa (bar) 140 (14) Turbocharging air max temperature (engine inlet) °C 55 -leat rejected to intercooler at maximum power kPa (bar) 10 (0.10) **Exhaust system** **Max allowable backpressure** **Inimum oil pressure at full load/rated speed (after turbo) °C 530 **Exhaust flow at max output** **Lubrication system** **Max oil temperature at full load/rated speed (after turbo) °C 120 **Tongine 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.* **Cooling system** **Cooling system** **Cooling system** **Cooling tapacity (engine only) liters 8.5 **Mater pump flow at rated speed m²/h 9.5 **Mater pump flow at rated speed m²/h 9.5 **Mater pump flow at rated speed m²/h 9.5 **Cooling liquid max temperature near to max power kPs (ksa/h) 100 (85,800) **Mater pump flow at rated speed m²/h 9.5 **Cooling liquid max temperature near pressure in the cooling circuit kPa (bar) 30 (700 (0.3/f)) **External cooling system max pressure drop kPa (bar) 35 (0.35) **Fuel system** **Policy system** **Rotary pump flow in twinker restriction kPa (bar) 0 (positive head) **Gas oil intake reference temperature near near pressure drop cooling system near pressure temperature near near pressure drop near near near near near near near near	Air induction		
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Electrical system	Gas oil max intake restriction	\ /	0 (positive head)
•	Gas oil intake reference temperature	°C	30
•	Electrical system		
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N67 MNT F42 FOR FIRE FIGHTING PUMPS

Engine gross power ratings *	rpm	1470	1760	2100	2200	2350	2600	2800	2940
	kW	127	159	180	184	189	197	197	197
	HP	173	216	245	250	257	268	268	268
Specific fuel consumption at maximum rating	g/kWł	n @ rpm			230 @	2940			
Oil consumption at max rating	(% of	fuel consu	umption)		0	.1			
Minimum starting temperature without auxiliaries	°C				-′	15			
Dry weight (standard configuration)	kg				53	30			

^{*} **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 (version N67MNT F42.10)

W = 706 mm (version N67MNT F42.01)

H = 1003 mm

N67 MNT F42 FOR FIRE FIGHTING PUMPS

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 F42.10)

8 (
Flywheel housing prearranged for pick-up	type	SAE 3
Flywheel size	inch	11" 1/2
Intake manifold location		left side / upward inlet
Exhaust manifold / turbocharger location		right side
Turbocharger		fixed geometry 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 sump
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
Water engine/air heat exchanger		included
Turbocharging air/air heat exchanger		included
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 F42.01)		× /
Differs from the version N67 MNT F42.10 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 WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE, CONTACT THE FPT SALES NETWORK.

FIAT POWERTRAIN TECHNOLOGIES

Via Puglia, 15 - 10156 Torino

FIAT POWERTRAIN TECHNOLOGIES

Viale dell'Industria, 15/17 - 20010 Pregnana Milanese (MI)

www.fptpowertrain.com



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