N67 MNT F41

FOR FIRE FIGHTING PUMPS 6 CYLINDERS IN LINE - DIESEL CYCLE Max 222 kW (302 HP) @ 2940 rpm

SPRINKLER APPLICATIONS



N67 MNT F41 FOR FIRE FIGHTING PUMPS

Thermodynamic cycle		Diesel 4 stroke - D.I
Air intake		TAA
Arrrangement		6L
Bore x Stroke	mm	104 × 132
Fotal displacement		6.7
/alves 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		
1ax 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)	1410 (1200)
Furbocharging pressure at full load/rated speed	kPa (bar)	160 (1.6)
urbocharging air max temperature (engine inlet)	°C	55
Heat rejected to intercooler at maximum power	k]/s (kcal/h)	44.5 (38,400)
ntercooler system max pressure drop	kPa (bar)	10 (0.10)
Exhaust system		
-		7 (0 07)
1ax allowable backpressure	kPa (bar)	7 (0.07)
1ax exhaust temperature at full load/rated speed (after turbo)	°C	580
Exhaust flow at max output	kg/h	1460
Lubrication system		
Minimum oil pressure at idle	kPa (bar)	70 (0.7)
fax oil temperature at full load/rated speed	°C	120
ingine angularity limits continuous operation: max front up and front down	0/360	25
max left hand and right hand	0/360	25
otal system capacity including pipes, filters etc.	liters	12.8
Cooling system		
Coolant capacity (engine only)	liters	8.5
Vater pump flow at rated speed	m³/h	15
Heat to reject by heat exchanger at max power	kl/s (kcal/h)	105 (90,600)
"hermostat (modulating range)	°C	83 ÷ 95
Cooling liquid max temperature	°C	103
fin/max inner pressure in the cooling circuit	kPa (bar)	30/100 (0.3/1)
ixternal cooling system max pressure drop	kPa (bar)	35 (0.35)
uel system		
njection system		Rotary pump
Gas oil max intake restriction	kPa (bar)	0 (positive head)
Gas oil intake reference temperature	°C	30

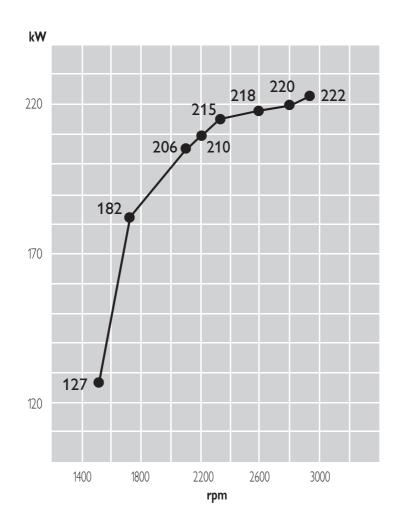
Electrical system

Voltage	V	24

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Engine gross power ratings *	rpm	1470	1760	2100	2200	2350	2600	2800	2940
	kW	127	182	206	210	215	218	220	222
	HP	173	247	280	285	292	296	299	302
Specific fuel consumption at maximum rating	g/kWł	n @ rpm			235 @	, 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

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 F41.10)

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		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		open
Oil heat exchanger		included
Oil filler		incorporated in the block
Exhaust counter flange		included
Starting motor		24 V - 4 kW
Alternator		24 V - 90 A with W contact
Engine stop device		incorporated in the pump
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 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 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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