

F32 MNT

65 kW (2300 rpm) - 340 Nm (1400 rpm)

Engine F32 MNT

Technical code		F5C E9484G*A
Thermodynamic cycle		Diesel 4 stroke-D.I.
Air intake		TAA
Arrangement		4L
Bore x Stroke	mm	99x104
Total displacement	L	3,2
Valves per cylinder		2
Cooling		Liquid
Direction of rotation (viewed facing flywheel)		CCW
Compression ratio		17:1
Rotation mass moment of inertia (without flywheel)	kgm ²	0,28
Standard flywheel inertia	kgm ²	0,776

AIR INDUCTION

Max suggested intake restriction with clean air filter	kPa(bar)	4,5(0,045)
Max allowable restriction with dirty air filter	kPa(bar)	6,5(0,065)
Air requirement for combustion at 100% load/rated speed	kg/h(m ³ /h)	365(311)
Turbocharging pressure at full load/rated speed	kPa(bar)	113(1,13)
Turbocharging air max temperature (engine inlet)	°C	50
Heat rejected to intercooler at maximum power	kW/h	8,8
Intercooler system max pressure drop	kPa(bar)	7(0,07)

EXHAUST SYSTEM

Max allowable backpressure	kPa(bar)	10(0,1)
Max exhaust temperature at full load/rated speed	°C	490
Exhaust flow at max output	kg/h	345

LUBRICATION SYSTEM

Minimum oil pressure at idle	kPa(bar)	250(2,5)
Max oil temperature at full load/rated speed	°C	115
Engine angularity limits continuous operation:		
max front up and front down	0/360	35°
max left hand and right hand	0/360	35°
Total system capacity including pipes, filters etc.	liters	n.a.

COOLING SYSTEM

Coolant capacity (engine only)	liters	4,72
Water pump flow at rated speed	m ³ /h	6,2
Heat to reject by heat exchanger at max power	kJ/s(kcal/h)	53,3(43.800)
Thermostat (modulating range)	°C	78÷94
Cooling liquid max temperature	°C	110
Min/max inner pressure in the cooling circuit	kPa(bar)	Pos/300(Pos/3)
External cooling system max pressure drop	kPa(bar)	35(0,35)

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FUEL SYSTEM

Injection system		mechanical rotative
Gasoil max intake restriction	kPa(bar)	15(0,15)
Gasoil max intake temperature	°C	43(@25°C amb)

ELECTRICAL SYSTEM

Voltage	V	12
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Maximum rating	kW(CV)	65(88)
At speed	rpm	2300
Maximum torque	Nm(kgm)	340(34)
At speed	rpm	1400
Maximum no load governed speed at max rating	rpm	2550
Minimum idling speed	rpm	850
Mean piston speed at rated speed	m/s	n.a.
BMEP at max torque	kg/cm ²	n.a.
Available certifications		CE97/68 PhaseIIA-EPA Tier3
Specific fuel consumption at full load (best value)	g/kWh @ rpm	231@2500
Oil consumption at max rating	(% of fuel consumption)	0,14
Noise at max rating (ISO 3744)	dB(A)	93
Minimum starting temperature without auxiliaries	°C	-12
Oil and oil filter maintenance interval for replacement	hours	600
Dry weight (standard configuration)	kg	300

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.

STANDARD CONFIGURATION

Flywheel housing	type	SAE3
Flywheel size	inch	10
Intake manifold location		front/right side/upwards
Exhaust manifold location		central/right side/upwards
Turbocharger		fixed geometry-without WG
Turbocharger location		central/right side/upwards
Fan transmission ratio		1,1 : 1
Distance between fan - crankshaft centers	mm	X = 0, Y = 296
Fuel filter	n°	1- left side
Fuel prefilter		optional
Fuel pump		mechanical rotative
Oil filter	n°	1- left side
Oil sump		suspended sheet metal-central sump
Oil vapours blow-by circuit		on timing cover
Oil heat exchanger		incorporated in the block

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STANDARD CONFIGURATION

Oil filler		on timing cover-1°cyl.
Exhaust counter flange		on turbo, threaded
Starting motor		12V-3kW
Alternator		12V-90A-with W contact
Engine stop device		integrated on pump
Wiring harness		-
Power take off (optional) - transmission ratio		1,8÷1
PTO maximum available torque	SAE A	-
	SAE B	140Nm
Painting	colour	grey

NOT INCLUDED IN THE STANDARD CONFIGURATION

Battery - minimum capacity recommended	180Ah (12V)
Battery - minimum cold cranking capacity recommended	950A(12V)

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.

Date of update: 11/2009
Specifications subject to change without notice
Illustrations may include optional equipment.