

NEF 280

N67 MNT M28

FOR MARINE APPLICATIONS
6 CYLINDERS IN LINE - DIESEL CYCLE
206 kW (280 CV) @ 2800 rpm (A1)
191 kW (260 CV) @ 2800 rpm (B)
169 kW (230 CV) @ 2800 rpm (C)
132 kW (180 CV) @ 2500 rpm (D)



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**IVECO
MOTORS**

 **FPT**
POWERTRAIN TECHNOLOGIES

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Thermodynamic cycle		Diesel 4 stroke - 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 ²	0.32
Standard flywheel inertia	kgm ²	0.71

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 (comb. + ventilation)	kg/h (m ³ /h)	5200 (4500)
Turbocharging pressure at full load/rated speed	kPa(bar)	150 (1.5)
Turbocharging air max temperature (engine inlet)	°C	40

Exhaust system

Max allowable backpressure	kPa(bar)	10 (0.1)
Max exhaust temperature at maximum power	°C	580
Exhaust flow at max output	kg/h	1130

Lubrication system

Minimum oil pressure at idle (at 100°C)	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	16
max left hand and right hand	0/360	22 30'
Total system capacity including pipes, filters etc.	liters	16.5

Sea water cooling system (open circuit)

Max intake restriction	kPa(bar)	20 (0.2)
Sea water pump flow	m ³ /h	12
Heat rejected (total) at max power	kJ/s(kcal/h)	163.3 (140,000)
Sacrificial zinc anodes	n°	2

Cooling system (closed circuit)

Coolant capacity (engine only)	liters	24.5
Water pump flow at rated speed	m ³ /h	15
Thermostat (modulating range)	°C	72 ÷ 82
Cooling liquid max temperature	°C	103
Min/max inner pressure in the cooling circuit (for keel cooling)	kPa(bar)	10/100 (0.1/1)
External cooling system max pressure drop (for keel cooling)	kPa(bar)	35 (0.35)

Fuel system

Injection system		mechanical pump
Gas oil max intake restriction	kPa(bar)	15 (0.15)
Gas oil max intake temperature	°C	40
Max fuel backpressure to tank	kPa(bar)	30 (0.3)

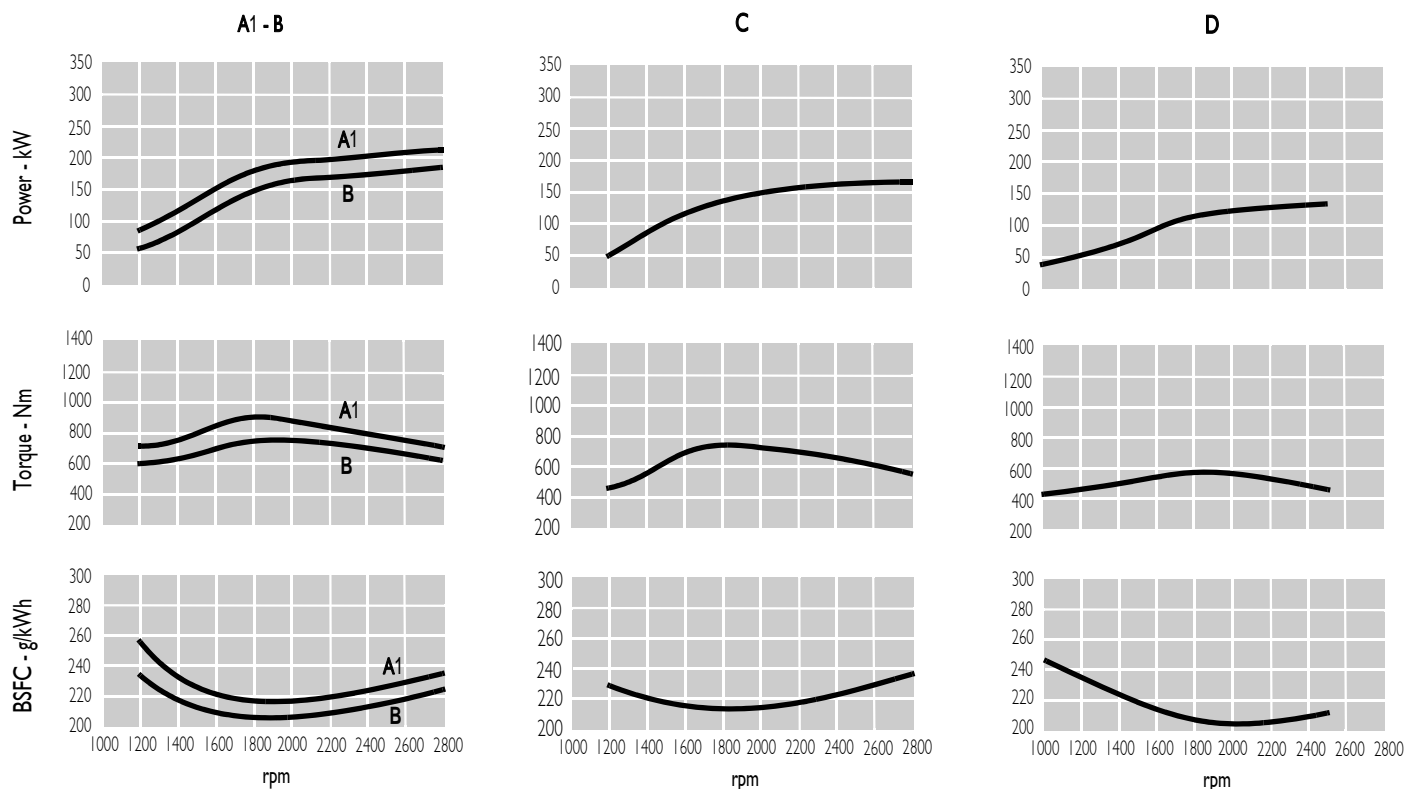
Electrical system

Voltage	V	12
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Rating type		A1	B	C	D
Maximum power *	kW(CV)	206 (280)	191 (260)	169 (230)	132 (180)
At speed	rpm	2800	2800	2800	2500
Maximum no load governed speed at max rating	rpm		3150		
Minimum idling speed	rpm		650		
Mean piston speed at rated speed	m/s	12.3	12.3	12.3	11.0
BMEP at max torque	kg/cm ²	18.2	15.2	11.2	11.3
Available certifications			RINA	CCNR	
Specific fuel consumption at full load (best value)	g/kWh @ rpm		214 @ 2000		
Oil consumption at max rating	(% of fuel consumption)		≤ 0.2		
Minimum starting temperature without auxiliaries	°C		- 15		
Oil and oil filter maintenance interval for replacement	hours		600		
Dry weight (without marine gear)	kg		605		

* **Net Power** at flywheel according to ISO 3046/1, after 50 hours running, fuel Diesel EN 590. Power tolerance 5%
Test conditions : ISO 3046/1, 25 °C air temperature, 100 kPa atmospheric pressure, 30 % relative humidity.

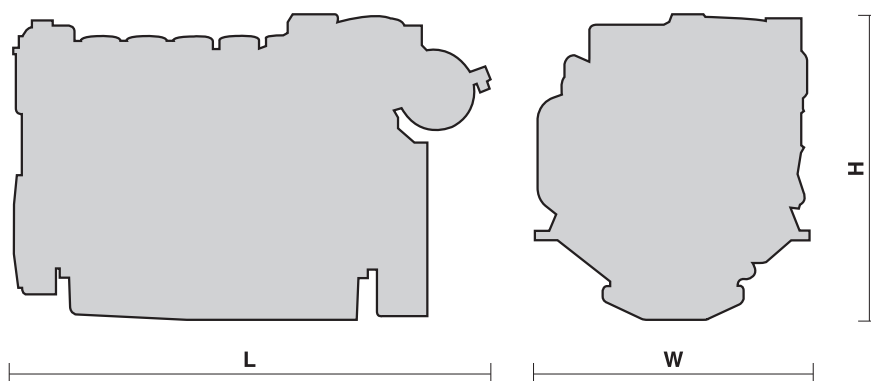


A1 = High performance crafts.
B = Light duty.
 Full throttle operation restricted within 10% of total use period.
 Cruising speed at engine rpm < 90% of rated speed setting - Maximum usage :
 - 300 hours per year (A1 service)
 - 1500 hours per year (B service).

C = Medium duty.
 Full throttle operation < 25% of use period.
 Cruising speed at engine rpm < 90% of rated speed setting - Maximum usage 3000 hours per year.

D = Heavy duty.
 Maximum rating utilisation up to 100% of use period, for unlimited hours per year.

L = 1236 mm
 W = 780 mm
 H = 793 mm



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Standard configuration

Flywheel housing	SAE	3
Flywheel size	inch	11,5
Air filter		rear side
Turbocharger		cooled
Heat exchanger		tube type
Exhaust cooled elbow		-
Water charge tank		included
Fuel filter	n°	1 - left side
Fuel prefilter		included (loose)
Fuel pump		included
Oil filter	n°	1 - right side
Oil sump		aluminium
Oil vapours blow-by circuit		rear
Oil heat exchanger		built in the crankcase
Oil filler		on timing cover frontward
Starting motor		12 V - 3 kW
Alternator		12 V - 90 A
Engine stop device		electrical excitation
Wiring harness		engine wiring
Painting	colour	white "ICE"

Not included in the standard configuration

Battery - minimum capacity recommended		120 Ah
Battery - minimum cold cranking capacity recommended		900 A

IVECO MOTORS 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 IVECO MOTORS SALES NETWORK.

Iveco Motors

Via Puglia, 15 - 10156 Torino IT
Tel. +39 (011) 0076245 - Fax +39 (011) 0076275

Iveco Motors

V.le dell'Industria, 15/17- 20010 Pregnana Mil.se Milano IT
Tel. +39 (02) 935101 - Fax +39 (02) 93590029

www.ivecomotors.com

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