

N45 MNS F40 POWER UNIT

TECHNICAL DATASHEET

Production Tolerance : $\pm 5\%$

Stand-By (Maximum) Rating	Max.Torque	Fuel Consumption
109 kW (148 HP) / 2940 rpm	455 N.m (47 kg.m) / 1470 rpm	228 g/kW.h (168 g/HP.h) / 2940 rpm

Note : All datas are according to DIN6270B

MECHANICAL SYSTEM

Manufacturer	Iveco / Italy
Engine Model	N45 MNS F40
Type	4 cycle , Diesel , Turbocharged
Combustion Type	Direct Injection
Cylinder Number	Inline 4 cyl
Bore x Stroke	104 x 132 mm
Displacement	4,5 lt
Compression Ratio	17,5
Flywheel & Hsg	SAE 3/11,5 "
Dry Weight	390 kg
Dimensions LxWxH	807x643x920 mm

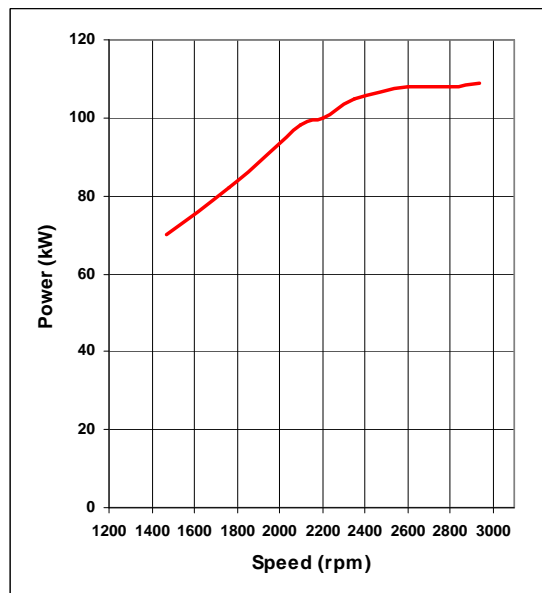
FUEL SYSTEM

Injection Pump	Stanadyne Rotary type
Governor Type	Mechanical
Injection Nozzle	Multi-hole type
Fuel Selenoid	Energized to
Fuel Filter	Full flow, cartridge type
Fuel Delivery	by priming pump
Fuel	Diesel Fuel (EN590)

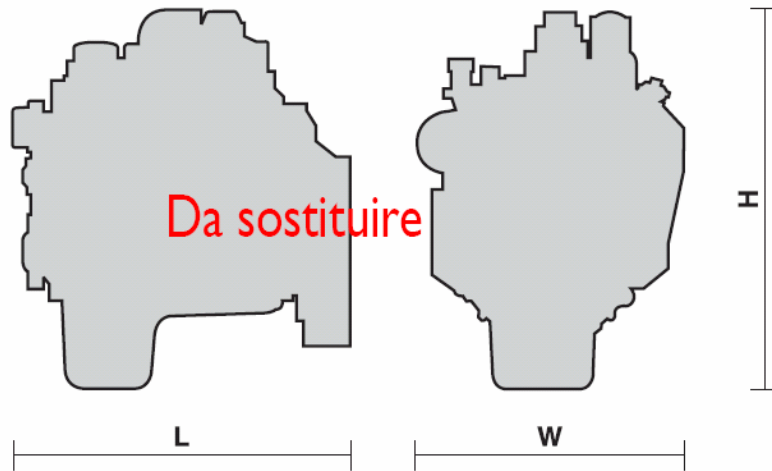
COOLING SYSTEM

Cooling Type	Water Cooled
Cooling Method	Forced Circulation
Water Capacity	8,5 lt without radiator
Water Pump	Centrifugal type driven by belt

PERFORMANCE CURVE



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LUBRICATION SYSTEM

Lubrication Method	Pressure feed type
Oil Pump	Gear Driven
Oil Filter	Full Flow cartridge
Oil Capacity	12,8 lt
Recommended Oil	CE 15W/40 grade

ELECTRICAL SYSTEM

Charging Alternator	12 V , 90 Amp
Starting Motor	12 V, 3 kW
Battery Voltage	12 V
Capacity (Recommended)	102 Ah

OPTIONS

(EWI)	Engine Wiring
(CPA)	Basic Start Panel
(CHE)	Coolant Heater
(ESI1)	Industrial type Silencer
(ESI2)	Residential type Silencer
(BAT)	Battery , cables & rack
(BFR1)	Baseframe Std.c/w fuel tank
(BFR2)	Extended Baseframe c/w fuel tank
(NFP)	Conformity kit to NFPA-20 standards
(HEX)	Heat Exchanger Kit with pipeline
(CPL)	Coupling with its guard
(TBX)	Tool Kit

UNIT CONVERSION

HP = kW x 1,3596
Torque (N.m) = 9549,3 x P(kW) / N(1/min)
Torque (kg.m) = 716,2 x P(HP) / N(1/min)
1 Bar = 1,019726 kg/cm ² = 100 kPa
1 kW = 0,2388 kcal/s

IDEA

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