



MOSA GE 140 FSX

Reference: CL8M2056

MOSA GE140 FSX 112 KW generating set

MOSA GE140 FSX three-phase 112 KW generator set with Iveco diesel engine. The MOSA GE140 FSX generator set is equipped with electric start. The alternator of the MOSA GE140 FSX generating set is synchronous, three-phase, self-excited, self-regulated, brushless with class H insulation with AVR voltage regulator.

This MOSA is compact and easy to maneuver and transport thanks to its compact size, with a weight of 1700 kg as well as the practical pierceable base. The MOSA GE140 FSX generator set with 230 liters fuel tank has a fuel consumption of 20 liters/hour at 75% of the load for an autonomy of more than 11 hours.

Technical specifications:

Three-phase Stand-by Output (LTP): 140 kVA (112 kW) / 400V / 202.1A
Three-phase PRP Output: 125 kVA (100 kW) / 400V / 180.4A
Three-phase COP Output: 99 kVA (79.2 kW) / 400V / 176.3A
Frequency: 50 Hz
Cos φ: 0.8

ENGINE TECHNICAL DATA

Model FPT (IVECO) N45TM3
Net stand-by output: 118.2 kW (160 hp)
Net PRP output: 107.2 kW (146 hp)
Net COP output: 85.7 kW (117 hp)
Cylinders/Displacement: 4/ 4500 cm³ (4. 5 lt.)
Bore / Stroke: 104 / 132 (mm)
Compression Ratio: 17.5 : 1
BMEP (Effective Average Pressure: 2130 kPa - 1937 kPa
RPM Controller: Mechanical
110 % (Stand-by Power): 30. 4 lt./h - 211.5 g/kWh
100 % PRP: 27.6 lt./h - 211 g/kWh
75 % PRP: 20 lt./h - 206 g/kWh
50 % PRP: 14.4 lt. /h - 220 g/kWh
Cooling system: Liquid
Total capacity - engine only: 10 lt - 8.5 lt.
Fan air flow: 132 m³/min.
Total oil capacity: 12.8 l
Oil capacity in sump: 8.5 lt. + 5.5 lt.
Oil consumption at full load: < 0.023 l/h
Maximum exhaust gas flow: 9 kg/mim.

Maximum exhaust gas temperature: 540 °C
Maximum back pressure: 5 kPa (0.05 bar)
Electrical system: 12 Vdc
Starter motor power: 3 kW
Alternating capacity, battery charge: 90 A
Cold start: - 10 °C
With cold start device: - 25°C
Air filter: Dry
Combustion air flow: 7.1 m³/min
From exhaust: 590 kcal/kWh
From water and oil: 334 kcal/kWh
Injected to the environment: 215 kcal/kWh
Supercharger cooling: 118 kcal/kWh

TECHNICAL DATA ALTERNATOR

Continuous power: 132 kVA
Standby power: 145 kVA
Three-phase voltage: 380 - 415 Vac
Frequency: 50 Hz
Cos φ: 0.8
A.V.R. model. : MARK V
Voltage regulation accuracy: ± 0.5 %
Sustained short-circuit current: 3 I_n
Transient Cdt (100% of load): < 20 %
Response time: < 0.3 sec
Yield at 100% load: 92.2 % (400V - Cos φ 0.8)
Isolation: Class H
Connection - Terminals: Star - No. 12
Electromagnetic Compatibility: EN 55011
Harmonic Distortion - THD: < 2 %
Telephone Interference - THF: < 2 %
Direct Synchronous - X_d: 265 %
Direct Transitory - X'_d: 19.3 %
Subtransitory direct - X'_d: 9.5 %
Synchronous quad. - X_q: 145 %
Subtransitory in quadrature - X'_q: 10.6 %
Of reverse sequence - X₂: 10.1 %
Of zero sequence - X₀: 2.2 %
Transitory - T'_d: 0.087 sec
Subtransitory - T'_d: 0.006 sec
Unidirectional - T'_{do}: 1.08 sec
Unidirectional - T_a / Armatures - T_a: 0.007 sec
Short-circuit ratio K_{cc}: 0.42
Protection class: IP 23
Cooling air flow rate: 0.31 m³/sec.
Coupling I Bearings: Direct SAE 3 -11 1/2 - No. 1

GENERAL SPECIFICATIONS

Tank capacity: 230 lt.
Run time (75% of PRP): 11.5 h
Measured acoustic power L_{wA}: 94 dB(A) (69 dB(A) @ 7m)
Guaranteed acoustic power L_{wA}: 95 dB(A) (70 dB(A) @ 7m)
Performance class: G2
Length: 2630 mm
Width: 1130 mm
Height: 1750 mm
Weight: 1700 kg

MOSA GE140 FSX - Iveco diesel engine electric start - Three-phase alternator - Three-phase power 125 kVA (100 kW)

If you are looking for another product like the MOSA GE140 FSX generator set then you can find in our catalog other [land based generator sets](#).

Images and technical data are not binding.

Technical Sheet

Phase	Single phase / Three phase
Maximum power three phase (KW)	112
Continuous power three phase (KW)	79.2
Maximum power three phase (KVA)	140
Continuous power three phase (KVA)	99
Fuel	Diesel
Frequency (Hz)	50
Voltage (V)	230 / 400
Engine	FPT (IVECO) N45TM3, 4 stroke turbo-aftercooler
Emissions Regulations	Stationary Use
Engine rpm (rpm)	1500
Speed governor	Mechanical
Starting system	Electric
Engine capacity (cm ³)	4500
Number cylinders	4
Oil capacity (L)	12.8
Cooling	Water
Inyección	Direct
Alternator	Three-phase synchronous self-excited, self-regulated, brushless
Bore x stroke (mm)	104 x 132
Fuel tank capacity (L)	230
Consumption (L/h)	20 at 75% of the load
Running time (h)	11.5 at 75% of the load
Acoustic power	95 dB(A)
Acoustic pressure	70 dB(A) at 7 m
Length (mm)	2630
Width (mm)	1130
Height (mm)	1750
Dry weight (Kg)	1700

Silenced	Yes
Super silenced	Yes
Product type	Generator
ATS Switch device	Optional ATS
Voltage regulator	AVR
Engine manufacturer	FPT Iveco
