



X2200

Engine MTU , 16V4000G23F Alternator LEROY SOMER , LSA51.2M60

STANDARD FEATURES

- Electronic governor
- Mechanically welded chassis with vibration isolators
- Air cooler for wiring T°of 47/50°C max with electric fan
- Exhaust outlet with flexible and flanges
- 24 V charging alternator and starter
- Supplied with oil
- User manual and commissioning guide



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
415/240	1760 / 2200	1600 / 2000	3061	Length: 4618mm [182in]	13280kg [29269lbs] Net
400/230	1760 / 2200	1600 / 2000	3176	Width: 1885mm [74in]	13870kg [30569lbs] Gross
380/220	1760 / 2200	1600 / 2000	3343	Heigth: 2158mm [85in]	

POWER DEFINITION

PRP: Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046-1 –

<u>ESP</u> : The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

TERM OF USE

Standard reference conditions N/A °C Air Intlet Temp, N/A m A.S.L. 60 % relative humidity. All engine performance data based on the above mentioned maximum continuous ratings.

	Туре	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
() () () () () () () () () () () () () (EUR40SSI	79	69	Length: 12192mm [480in] Width: 2438mm [96in] Heigth: 2896mm [114in]	26401kg [58188lbs] Net 27931kg [61560lbs] Gross	500 L
(Hereitan)	EUR40SI	85	75	Length: 12192mm [480in] Width: 2438mm [96in] Heigth: 2896mm [114in]	25711kg [56667lbs] Net 27242kg [60041lbs] Gross	500 L

ELEKTROMAK JENERATÖR

Jeneratör Alım Satım Kiralama Bobinaj ve Servis Hizmetleri





ENGINE SPECIFICATIONS

		MTU 16V4000G23F,4-strokes, Turbo,	
	Manufacturer / Model	Air/Water DC 16 X	
	Cylinder Arrangement	V	
	Displacement	76.32L [4657.3C.I.]	
	Bore and Stroke	170mm [6.7in.] X 210mm [8.3in.]	
STANDARD	Compression ratio	16.5	
	Rated RPM	1500 Rpm	
FEATURES	Piston Speed	10.5m/s [34.4ft./s]	
	Max. stand by Power at rated RPM	1978kW [2651BHP]	
	Frequency regulation, steady state	+/-0. 5%	
	BMEP	18.9bar [274psi]	
	Governor : type	Elec	
EXHAUST	Exhaust temperature	480°C [896°F]	
SYSTEM	Exhaust gas flow	5400L/s [11443cfm]	
	Max back pressure	300mm CE [12in. WG]	
	110% (Stand By power)	N/A	
	100% (of the Prime Power)	401L/h [105.9gal/hr]	
FUEL SYSTEM	75% (of the Prime Power)	306L/h [80.8gal/hr]	
	50% (of the Prime Power)	214L/h [56.5gal/hr]	
	Max. fuel pump flow	1500L/h [396.3gal/hr]	
	Total oil capacity w/filters	300L [79.3gal]	
	Oil Pressure low idle	3.5bar [50.7psi]	
OIL SYSTEM	Oil Pressure rated RPM	7bar [101.4psi]	
	Oil consumption 100% load	2L/h [0.5gal/hr]	
	Oil capacity carter	240L [63.4gal]	
THERMAL	Heat rejection to exhaust	N/A	
BALANCE	Radiated heat to ambiant	90kW [5117Btu/mn]	
	Heat rejection to coolant	N/A	
AIR INTAKE	Max. intake restriction	150mm CE [6in. WG]	
	Engine air flow	2100L/s [4450cfm]	
	Radiator & engine capacity	N/A	
	Max water temperature	104°C [219°F]	
	Outlet water temperature	100°C [212°F]	
COOLANT	Fan power	N/A	
SYSTEM	Fan air flow w/o restriction	N/A	
	Available restriction on air flow	N/A	
	Type of coolant	Coolelf mdx	
	Thermostat	79/92 °C	
	PM	N/A	
EMISSIONS	CO	N/A	
LEVEL	Nox	N/A	
	HC	N/A	

ELEKTROMAK JENERATÖR NK POWER MARMARA BAYİİ Jeneratör Alım Satım Kiralama Bobinaj ve Servis Hizmetleri





ALTERNATOR SPECIFICATIONS

	Manufacturer / Type	LEROY SOMER LSA51.2M60
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude	< 1000 m
	Overspeed	2250 rpm
	Pole : number	4
	Exciter type	AREP
GENERAL	Insulation : class, temperature rise	Н / Н
	Voltage regulator	R449
DATAS	Sustained short circuit current	5.9 AC
	Total harmonics (TGH/THC)	< 4 %
	Wave form : NEMA = TIF – TGH/THC	< 50
	Wave form : CEI = FHT – TGH/THC	< 2 %
	Bearing : number	1
	Coupling	Direct +/- 1%
	Voltage regulation 0 to 100% load	
	Recovery time (20% Volt dip) ms SkVA with 90% of nominal sustained voltage (at	<700 ms
	0.4PF)	N/A
	,	2050 kVA
	Continuous nominal rating @ 40°C	
	Standby rating @ 27°C	2200 kVA
	Efficiencies @ 4/4 load	95.7 %
	Air flow	2.5m3/s [5297.18cfm]
	Short circuit ratio;50 (Kcc)	0.35
	Direct axis synchro reactance unsaturated (Xd)	357 %
	Quadra axis synchro reactance unsaturated (Xq)	214 %
	Open circuit time constant;50 (T'do)	2800 ms
	Direct axis transient reactance saturated (X'd)	31.6 %
	Short circuit transient time constant (T'd)	250 ms
OTHER	Direct axis subtransient reactance saturated (X"d)	13.5 %
	Subtransient time constant (T"d)	23 ms
DATAS	Quadra axis subtransient reactance saturated (X"q)	17.5 %
	Zero sequence reactance unsaturated (Xo)	3.3 %
	Negative sequence reactance saturated (X2)	15.7 %
	Armature time constant (Ta)	41 ms
	No load excitation current (io)	1.5 A
	Full load excitation current (ic)	N/A
	Full load excitation voltage (uc)	62 V
	Recovery time (Delta U = 20% transitoire)	<700 ms
	Motor start (Delta = 20% perm. Or 50% trans.)	4000 kVA
	Transient dip (4/4 charge) – PF : 1.8 AR	12 %
	No load losses	17.5kW [17.50Kw]
	Heat rejection	70.1 kW
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FLEKTROMAK JENERATÖR

Jeneratör Alım Satım Kiralama Bobinaj ve Servis Hizmetleri

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CONTROL PANEL

Option



M80

Specifications : Tachometer, Emergency stop button, client connection terminal strip, EC certified Engine parameters : Hours counter, Oil pressure gauge, Water temperature indicator, Oil pressure indicator

Option



TELYS

Specifications : Frequency meter, Ammeter, Voltmeter Alarms and faults Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop Engine parameters Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level

Option



KERYS

Specifications :

Frequency meter, Ammeter, Voltmeter Alarms and faults Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop Engine parameters Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level Additional specifications Website, Troubleshooting, Assistance and Maintenance, Plotting and logging, Load impact, 8 configurations available, Compliance with international standards...

FI FKTROMAK IENERATÖR

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