





X3100C

Engine MTU , 20V4000G63E Alternator LEROY SOMER , LSA54S7

STANDARD FEATURES

- Electronic governor
- Mechanically welded chassis with vibration isolators
- Air cooler for wiring T°of 38/40°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	2480 / 3100	2255 / 2818	4313	Length: 5730mm [226in]	18365kg [40476lbs] Net
400/230	2480 / 3100	2255 / 2818	4475	Width: 2250mm [89in]	18976kg [41823lbs] Gross
380/220	2480 / 3100	2255 / 2818	4710	Heigth: 2454mm [97in]	

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 – **ESP**: 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.

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ENGINE SPECIFICATIONS

		MTU 20V4000G63E , 4-strokes, Turbo ,
	Manufacturer / Model	Air/Water DC 20 X
	Cylinder Arrangement	V
	Displacement	95.4L [5821.7C.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	2662kW [3567BHP]
	Frequency regulation, steady state	+/-0. 5%
	BMEP	20.3bar [294psi]
	Governor : type	Elec
EXHAUST	Exhaust temperature	590°C [1094°F]
SYSTEM	Exhaust gas flow	8400L/s [17800cfm]
	Max back pressure	300mm CE [12in. WG]
	110% (Stand By power)	650L/h [171.7gal/hr]
	100% (of the Prime Power)	599L/h [158.3gal/hr]
FUEL SYSTEM	75% (of the Prime Power)	450L/h [118.9gal/hr]
	50% (of the Prime Power)	303L/h [80.1gal/hr]
	Max. fuel pump flow	1440L/h [380.4gal/hr]
	Total oil capacity w/filters	390L [103.0gal]
	Oil Pressure low idle	4.9bar [71.0psi]
OIL SYSTEM	Oil Pressure rated RPM	7.7bar [111.6psi]
	Oil consumption 100% load	3L/h [0.8gal/hr]
	Oil capacity carter	340L [89.8gal]
THERMAL	Heat rejection to exhaust	N/A
BALANCE	Radiated heat to ambiant	105kW [5970Btu/mn]
	Heat rejection to coolant	N/A
AIR INTAKE	Max. intake restriction	150mm CE [6in. WG]
	Engine air flow	3000L/s [6357cfm]
	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
EN HOCIONIO	PM	N/A
EMISSIONS	CO	N/A
LEVEL	Nox	1700 mg/Nm3 Max
	HC	150 mg/Nm3 Max

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ALTERNATOR SPECIFICATIONS

	Manufacturer / Type	LEROY SOMER LSA54S7
	Number of phase	Samuel 1 Sabasa 1
	Power factor (Cos Phi)	0.8
	Altitude	1000
	Overspeed	1800 rpm
	Pole : number	4
	Exciter type	AREP
GENERAL	Insulation : class, temperature rise	H / H
OLIVEIVIE	Voltage regulator	R449
DATAS	Sustained short circuit current	5.7 AC
2711710	Total harmonics (TGH/THC)	< 2,5%
	Wave form : NEMA = TIF – TGH/THC	< 50
	Wave form : CEI = FHT – TGH/THC	< 2%
	Bearing : number	1
	Coupling	Direct
	Voltage regulation 0 to 100% load	+/- 0,5%
	Recovery time (20% Volt dip) ms	900 ms
	SkVA with 90% of nominal sustained voltage (at	N/A
	0.4PF)	IN/A
	Continuous nominal rating @ 40°C	2916 kVA
	Standby rating @ 27°C	3208 kVA
	Efficiencies @ 4/4 load	96.4 %
	Air flow	3.4m3/s [7204.16cfm]
	Short circuit ratio;50 (Kcc)	0.42
	Direct axis synchro reactance unsaturated (Xd)	279 %
	Quadra axis synchro reactance unsaturated (Xq)	168 %
	Open circuit time constant;50 (T'do)	3160 ms
	Direct axis transient reactance saturated (X'd)	26.2 %
	Short circuit transient time constant (T'd)	350 ms
OTHER	Direct axis subtransient reactance saturated (X"d)	16 %
O III LIK	Subtransient time constant (T''d)	24 ms
DATAS	Quadra axis subtransient reactance saturated (X"q)	20 %
Brine	Zero sequence reactance unsaturated (Xo)	3.8 %
	Negative sequence reactance saturated (X2)	18 %
	Armature time constant (Ta)	79 ms
	No load excitation current (io)	1.6 A
	Full load excitation current (ic)	N/A
	` '	60 V
	Full load excitation voltage (uc)	900 ms
	Recovery time (Delta U = 20% transitoire)	
	Motor start (Delta = 20% perm. Or 50% trans.)	6000 kVA
	Transient dip (4/4 charge) – PF : 1.8 AR	14 %
	No load losses	29kW [29.00Kw]
	Heat rejection	87 kW

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Mail Adres





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...

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