



DESCRIPTIVE

- Four-pole circuit breaker
- Central lifting ring
- Primary filter
- Oil drainage pump
- Battery isolating switch
- Containment fuel tank and large autonomy
- Inlet air preheating
- Differential protection and earthing rod
- Rental Compact canopy
- Leroy-Somer AREP (TS26-S004) Alternator
- Forks and frame protection pads
- Heavy duty air filter with interchangeable cartridge

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.

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

TERMS OF USE

According to the standard, the nominal power assigned by the genset is given for 25°C Air Inlet Temperature, of a barometric pressure of 100 kPa (100 m A.S.L), and 30 % relative humidity. For particular conditions in your installation, refer to the derating table.

R44C3 (CE)

Engine type	S4S-Z3DT61SD
Alternator type	LSA 43.2 S15
Canopy Type	M3127

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Voltage value	400
Max power ESP (kVA)	40
Max power ESP (kWe)	32
Max power PRP (kVA)	36.4
Max power PRP (kWe)	29.1
Intensity (A)	58
Standard Control Panel	NEXYS

BIG AUTONOMY DIMENSIONS

Length (mm).	2200
Width (mm).	1000
Height (mm).	1528
Dry weight (kg).	1150
Tank capacity (L).	220
Autonomy @ 75% of load (h)	26.9
Autonomy @ 50% of load (h)	39.1

SMALL AUTONOMY DIMENSIONS

Length (mm).	N/A
Width (mm).	N/A
Height (mm).	N/A
Dry weight (kg).	N/A
Tank capacity (L).	N/A
Autonomy @ 75% of load (h)	13
Autonomy @ 50% of load (h)	18.9

NOISE LEVEL

Acoustic pressure level @1m in dB(A)	73
Acoustic pressure level @7m in dB(A)	61
Sound power level guaranteed (Lwa)	90



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TECHNICAL SPECIFICATIONS

GENERAL ENGINE DATAS

Description	S4S-Z3DT61S D
Engine model	N/A
Cylinder arrangement	L
Number of cylinders	4
Displacement (C.I.)	3.33
Bore (mm) x Stroke (mm)	94 x 120
Compression ratio	19 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6
Maximum stand-by power at rated RPM (kW)	N/A
Frequency regulation (%)	< 5%
BMEP (bar)	8.65
Governor type	Mechanical

COOLING SYSTEM

Radiator & Engine capacity (L)	9.5
Max water temperature (°C)	102
Outlet water temperature (°C)	N/A
Fan power (kW)	0.8
Fan air flow w/o restriction (m ³ /s)	N/A
Available restriction on air flow (mm EC)	N/A
Type of coolant	Gencool

EMISSIONS

Emission HC (g/kW.h)	N/A
Emission HCNO _x (g/kWh)	N/A
Emission CO (g/kW.h)	N/A
Emission PM (g/kW.h)	N/A

EXHAUST

Exhaust gas flow (L/s)	N/A
Exhaust gas temperature (°C)	N/A
Max. exhaust back pressure (mm EC)	680

FUEL

Consumption @ 110% load (L/h)	N/A
Consumption @ 100% load (L/h)	10.4
Consumption @ 75% load (L/h)	N/A
Consumption @ 50% load (L/h)	N/A
Maximum fuel pump flow (L/h)	N/A

OIL

Oil capacity (L)	10
Min. oil pressure (bar)	1
Max. oil pressure (bar)	3.9
Oil consumption 100% load (L/h)	0.11
Carter oil capacity (L)	9

HEAT BALANCE

Radiated heat to ambient (kW)	N/A
Heat rejection to coolant (kW)	N/A

AIR INTAKE

Max. intake restriction (mm EC)	200
Intake air flow (L/s)	N/A



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ALTERNATOR SPECIFICATIONS

GENERAL DATAS

Description	LSA 43.2 S15
Alternator brand	N/A
Number of phase	3
Altitude (m)	0 à 1000
Overspeed (rpm)	2250
Number of pole	4
Excitation system	AREP
Insulation class	H
Regulation	R450
Sustained short circuit current	3 IN during 10S
Harmonic factor, no load TGH/THC	< 2%
Harmonic factor, on load TGH/THC	< 2%C
Wave form : CEI=FHT-(TGH/THC)	< 2%
Wave form : NEMA=TIF-(TGH/THC)	< 50
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (%)	+/- 0.5%
Air flow (m3/s)	0.27

OTHER DATAS

No load excitation current (io) (A)	1
Full load excitation current (ic) (A)	3
Full load excitation voltage (uc) (V)	13
Recovery time (Delta U = 20% transient) (ms)	500 ms
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	135
Transient dip (4/4 load) - PF : 0,8 AR (%)	12.3
No load losses (W)	980
Heat rejection (W)	4120

REACTANCES (R) - TIME CONSTANT(CT)

Short circuit ratio (Kcc)	0.48
Direct axis synchro reactance unsaturated (Xd) (%)	255
Quadra axis synchro reactance unsaturated (Xq) (%)	153
Open circuit time constant (T'do) (ms)	1131
Direct axis transient reactance saturated (X'd) (%)	11.2
Short circuit transient time constant (T'd) (ms)	50
Direct axis subtransient reactance saturated (X''d) (%)	5.6
Subtransient time constant (T''d) (ms)	5
Quadra axis subtransient reactance saturated (X''q) (%)	7
Zero sequence reactance unsaturated (Xo) (%)	0.8
Negative sequence reactance saturated (X2) (%)	6.3
Armature time constant (Ta) (ms)	8

POWERS

Power factor (Cos Phi)	0.8
Continuous Nominal Rating 40°C (kVA)	40
Standby Nominal Rating 40°C (kVA)	44
Standby Rating 27°C (kVA)	47
Efficiencies 4/4 load (%)	88.5

NEXYS, comprehensive and simple

TELYS, ergonomic and user-friendly



The NEXYS is a versatile control unit allowing operation in manual or automatic mode. Equipped with an LCD screen, the user-friendly NEXYS offers high-quality basic functions to guarantee simple, reliable operation of your generating set.

Offers the following functions:

Standard electrical measurements: voltmeter, frequency meter, ammeter.

Engine parameters: working hours counter, engine speed, battery voltage, fuel level.

Alarms and faults: oil pressure, coolant temperature, failure to start, overspeed (> 60 kVA), charging alternator fault, low fuel level, emergency stop.

For more information, please refer to the sales documentation.

The highly versatile TELYS control unit is complex yet accessible, thanks to the particular attention paid to optimising its ergonomics and ease of use. With its large display screen, buttons and scroll wheel, it places the accent on simplicity and communication.

The TELYS offers the following functions:

Electrical measurements: voltmeter, frequency meter, ammeter.

Engine parameters: working hours counter, oil pressure, coolant temperature, fuel level, engine speed, battery voltage.

Alarms and faults: oil pressure, coolant temperature, failure to start, overspeed, alternator min./max., battery voltage min./max., emergency stop, fuel level.

Ergonomics: wheel for navigating around the various menus.

Communication: remote control and operation software, USB connections, PC connection.

Automatic control: automatic start.

For more information on the product and its options, please refer to the sales documentation.