





DESCRIPTIVE

- Mechanic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for wiring temperature of 48/50°C max with mechanical fan
- Protective grille for fan and rotating parts (CE option)
- 9 dB(A) silencer supplied separately
- Charger DC starting battery with electrolyte
- 12 V charge alternator and starter
- Delivered with oil and coolant -30°C
- Manual for use and installation

J40U

Engine ref. 3029TF120
Alternator ref. AT00540T
Performance class G3

GENERAL CHARACTERISTICS

Frequency (Hz) 60
Voltage (V) 480/277
Standard Control Panel NEXYS
Optional control panel TELYS

POWER					
Voltage	ESP		PRP		Standby Amps
voltage	kWe	kVA	kWe	kVA	Standby Amps
480/277	40	50	36	45	60
440/254	40	50	36	45	66
220/127	40	50	36	45	131
208/120	37	46	33	42	128

DIMENSIONS COMPACT VERSION	I
Length (mm)	1700
Width (mm)	896
Height (mm)	1221
Dry weight (kg)	820
Tank capacity (L)	100

DIMENSIONS SOUNDPROOFED VERS	ION
Commercial reference of the enclosure	M127
Length (mm)	2080
Width (mm)	960
Height (mm)	1415
Dry weight (kg)	1040
Tank capacity (L)	100
Acoustic pressure level @1m in dB(A)	77
Sound power level guaranteed (Lwa)	0

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 Intlet 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.

ASSOCIATED UNCERTAINLY

For the generating sets used indoor, where the acoustic pressure levels depends on the installation conditions, it is not possible to specify the ambient noise level in the exploitation and maintenance instructions . You will also find in our exploitation and maintenance instructions a warning concerning the air noise dangers and the need to implement appropriated preventive measures.



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ENGINE CHARACTERISTICS

JOHN DEERE
3029TF120
Turbo
L
3
2.91
106 x 110
17.8:1
1800
6.60
48
+/- 2.5%
9.80
Mechanical

COOLING SYSTEM	
Radiator & Engine capacity (L)	16.10
Max water temperature (°C)	105
Outlet water temperature (°C)	93
Fan power (kW)	2.20
Fan air flow w/o restriction (m3/s)	2.34
Available restriction on air flow (mm Water Column)	20
Type of coolant	Glycol-Ethylene
Thermostat (°C)	82-94

EMISSIONS

Emission PM (g/kWh)

Emission CO (g/kW.h)

Emission HCNOx (g/kWh)

Emission HC (g/kW.h)

EXHAUST	
Exhaust gas temperature (°C)	517
Exhaust gas flow (L/s)	138
Max. exhaust back pressure (mm EC)	625
FUEL	
Fuel consumption 110% load (L/hr)	12.50
Fuel consumption 100% load (L/hr)	11.20
Fuel consumption 75% (L/h)	8.70
Fuel consumption 50% (L/h)	6
Maximum fuel pump flow (L/h)	108
OIL	
Oil capacity (L)	6
Min. oil pressure (bar)	1
Max. oil pressure (bar)	5
Max. oil pressure (bar) Oil consumption 100% load (L/h)	5 0.01
	-
Oil consumption 100% load (L/h)	0.01
Oil consumption 100% load (L/h)	0.01
Oil consumption 100% load (L/h) Carter oil capacity (L)	0.01
Oil consumption 100% load (L/h) Carter oil capacity (L) HEAT BALANCE	0.01 5.30
Oil consumption 100% load (L/h) Carter oil capacity (L) HEAT BALANCE Heat rejection to exhaust (kW)	0.01 5.30 43
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ALTERNATOR CHARACTERISTICS

GENERAL DATA		OTHER DATA	
Alternator commercial brand	SDMO	Continuous Nominal Rating 40°C (kVA)	51
Alternator ref.	AT00540T	Standby Rating 27°C (kVA)	57
Number of Phase	Three phase	Efficiencies 100% of load (%)	90
Power factor (Cos Phi)	0.80	Air flow (m3/s)	0.1450
Altitude (m)	0 to 1000	Short circuit ratio (Kcc)	0.80
Overspeed (rpm)	2250	Direct axis synchro reactance unsaturated (Xd) (%)	190
Number of pole	4	Quadra axis synchro reactance unsaturated (Xq) (%)	98
Capacity for maintaining short circuit at	Yes	Open circuit time constant (T"do) (ms)	1320
3 In for 10 s Insulation class	Н	Direct axis transcient reactance saturated (X"d) (%)	14.30
T° class, continuous 40°C	H / 125°K	Short circuit transcient time constant (T"d) (ms)	61
T° class, standby 27°C	H / 163°K	Direct axis subtranscient reactance saturated (X""d)	10
AVR Regulation	Yes	(%) Subtranscient time constant (T""d) (ms)	15
Total Harmonic Distortion in no-load DHT (%)	3.7	Quadra axis subtranscient reactance saturated (X""q) (%)	30.60
Total Harmonic Distortion, on load DHT	3.2	Subtranscient time constant (T"q) (ms)	
(%) Wave form : NEMA=TIF	<45	Zero sequence reactance unsaturated (Xo) (%)	2.70
Wave form : CEI=FHT	<2	Negative sequence reactance saturated (X2) (%)	21.50
Number of bearing	1	Armature time constant (Ta) (ms)	31
Coupling	Direct	No load excitation current (io) (A)	0.60
Voltage regulation at established rating		Full load excitation current (ic) (A)	2.30
(+/- %)	+/- 1%	Full load excitation voltage (uc) (V)	24.40
Recovery time (Delta U = 20% transcient) (ms)	500	Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	143.02
Indication of protection	IP 21	Transcient dip (4/4 load) - PF: 0,8 AR (%)	15.50
Technology	Without collar or	No load losses (W)	1239.91
	brush	Heat rejection (W)	4533
		Unbalanced load acceptance ratio (%)	

DIMENSIONS

CONTAINMENT	
Commercial reference of the enclosure	M127 DW
Length (mm)	2160
Width (mm)	966
Height (mm)	1582
Dry weight (kg)	1227
Tank capacity (L)	230
Acoustic pressure level @1m in dB(A)	77
Sound power level guaranteed (Lwa)	0



J40U

CONTROL PANEL

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 (sup. to 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.

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