

J33

Engine JOHN DEERE , 3029DF120
Alternator MECC ALTE , ECO28VL

STANDARD FEATURES

- 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
- 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



| Voltage | Power ESP kWe/kVA | Power PRP kWe/kVA | Standby Amps | Dimensions | Weight |
|---------|----------------------|----------------------|--------------|----------------------|-----------------------|
| 415/240 | 25 / 31 | 23 / 28 | 43 | | |
| 400/230 | 26 / 33 | 24 / 30 | 48 | Leng : 1700mm [67in] | 740kg [1631lbs] Net |
| 380/220 | 26 / 33 | 24 / 30 | 50 | Widt : 896mm [35in] | 850kg [1874lbs] Gross |
| 240 TRI | 26 / 33 | 24 / 30 | 79 | Heig : 1221mm [48in] | |
| 230 TRI | 26 / 33 | 24 / 30 | 83 | | |
| 220 TRI | 26 / 33 | 24 / 30 | 87 | | |
| 200/115 | 26 / 33 | 24 / 30 | 95 | | |



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.

TERM OF USE

Standard reference conditions ESP/PRP 25 C°/25 C° Air Intlet Temp, 1000 m/1000 m m A.S.L. 60 % relative humidity.

| Model | dB(A)@1m | dB(A)@7m | Dimensions | Weight | Tank |
|---|----------|----------|---|--------------------------------------|-------|
|  M127-DW | 74.9 | 65 | Leng : 2160mm [85in] Widt : 966mm [38in] Heig : 1582mm [62in] | 1150kg [2535lbs] 1370kg [3020lbs] | 230 L |
|  M127 | 74.9 | 65 | Leng : 2080mm [82in] Widt : 960mm [38in] Heig : 1415mm [56in] | 970kg [2138lbs] 1080kg [2381lbs] | 100 L |

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ENGINE SPECIFICATIONS

| | | |
|------------------------------------|---|--|
| DATA GENERAL DATA | Motor model | JOHN DEERE 3029DF120 , 4-temps, ATHMO , N/A 3 X |
| | Cylinder arrangement | L |
| | Displacement (C.l.) | 2.91 |
| | Bore (mm) X Stroke (mm) | 106 X 110 |
| | Compression ratio | 17.8 : 1 |
| | Speed (RPM) | 1500 |
| | Pistons speed (m/s) | 5.5 |
| | Maximum stand-by power at rated RPM (kW) | 29.7 |
| | Frequency regulation (%) | 2.5 |
| | BMEP (bar) | 7.42 |
| | Governor type | MECA |
| | EXHAUST SYSTEM | Exhaust gas temperature (°F) |
| Exhaust gas flow (L/s) | | 78 |
| Max. exhaust back pressure (mm CE) | | 625 |
| FUEL SYSTEM | Consumption @ 110% load (L/h) | 8.5 |
| | Consumption @ 100% load (L/h) | 7 |
| | Consumption @ 75% load (L/h) | 5 |
| | Consumption @ 50% load (L/h) | 3.6 |
| | Maximum fuel pump flow (L/hr) | 111 |
| OIL | Oil capacity (L) | 6 |
| | Min. oil pressure (bar) | 1 |
| | Max. oil pressure (bar) | 5 |
| | Oil consumption 100% load (L/h) | 0.007 |
| | Carter oil capacity (L) | 5.3 |
| THERMAL BALANCE | Heat rejection to exhaust (kW) | 31 |
| | Radiated heat to ambient (kW) | 6 |
| | Haet rejection to coolant (kW) | 18 |
| AIR INTAKE | AIR INTAKE_entree_max% | 300 |
| | Intake air flow (L/s) | 28 |
| COOLANT SYSTEM | Radiator & Engine capacity (L) | 16.1 |
| | Max water temperature (°C) | 105 |
| | Outlet water temperature (°C) | 93 |
| | Fan power (kW) | 1.5 |
| | Fan air flow w/o restriction (m3/s) | 1.74 |
| | Available restriction on air flow (mm CE) | 20 |
| | Type of coolant | GENCOOL |
| | Thermostat (°C) | 82-94 |
| EMISSIONS | Emissions PM (g/kW.h) | N/A |
| | Emission CO (g/kW.h) | N/A |
| | Emissions HCNOx (g/kWh) | N/A |
| | Emission HC (g/kW.h) | N/A |

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ALTERNATOR SPECIFICATIONS

| | | |
|------------------------------------|---|-----------|
| DATA GENERAL DATA | Alternator brand | MECC ALTE |
| | Alternator | ECO28VL |
| | Number of phase | 3 |
| | Power factor (Cos Phi) | 0.8 |
| | Altitude (m) | 1000 |
| | Overspeed (rpm) | N/A |
| | Number of pole | 4 |
| | Excitation system | NO |
| | Insulation class / Temperature class | H / H |
| | Regulation | SR7/2 |
| | Total harmonics TGH/THC | N/A |
| | Wave form : NEMA=TIF-TGH/THC | N/A |
| | Wave form : CEI=FHT-TGH/THC | N/A |
| | Number of bearing | 1 |
| | Coupling | DIRECT |
| | Voltage regulation 0 à 100% | N/A |
| | Recovery time (Delta U = 20% transitoire) (ms) | N/A |
| OTHER DATA | Continuous Nominal Rating 40°C (kVA) | 30 |
| | Standby Rating 27°C (kVA) | 33 |
| | Efficiencies 4/4 load (%) | 84.8 |
| | Air flow (m3/s) | 0.088 |
| | Short circuit ratio (Kcc) | 0.62 |
| | Direct axis synchro reactance unsaturated (Xd) (%) | 165 |
| | Quadra axis synchro reactance unsaturated (Xq) (%) | 71 |
| | Open circuit time constant (T'do) (ms) | 0.93 |
| | Direct axis transient reactance saturated (X'd) (%) | 15.4 |
| | Short circuit transient time constant (T'd) (ms) | 46 |
| | Direct axis subtransient reactance saturated (X''d) (%) | 8.8 |
| | Subtransient time constant (T''d) (ms) | 12 |
| | Quadra axis subtransient reactance saturated (X''q) (%) | 19 |
| | Zero sequence reactance unsaturated (Xo) (%) | 2.8 |
| | Negative sequence reactance saturated (X2) (%) | 13.2 |
| | Armature time constant (Ta) (ms) | 11 |
| | No load excitation current (io) (ms) | N/A |
| | Full load excitation current (ic) (A) | N/A |
| | Full load excitation voltage (uc) (A) | N/A |
| | Recovery time (Delta U = 20% transitoire) (ms) | N/A |
| | Motor start (Delta U = 20% perm. or 50% trans.) (ms) | N/A |
| | Transient dip (4/4 charge) - PF : 0,8 AR (%) | N/A |
| | No load losses (kW) | N/A |
| Heat rejection (kW) | N/A | |

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CONTROL PANEL

Standard

NEXYS



NEXYS

Specifications : Frequency meter, Ammeter, Voltmeter
Alarms and faults : Oil pressure, water temperature, Overcrank, Overspeed (>60 kVA), Min/max alternator, Low fuel level, Emergency stop
Engine parameters : Hours counter, Engine speed, Battery voltage, Fuel level, Air preheating

Option

TELYS



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