

FUJIAN EPOS ELECTRIC MACHINERY CO., LTD

EMEAN
POWER



FAWDE

ENGINE MODEL: 4DX21-61D

EMEAN POWER

www.emeanpower.com
Email: sale5@fjepos.com
Phone: +86 19890349907

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Basic technical data

| | | |
|------------------------------|--------------|-------------|
| Engine Model | 4DX21-61D | |
| No. of cylinders | 4 | |
| Cylinder arrangement | In-line | |
| Cycle | 4 stroke | |
| Aspiration | Natural | |
| Cooling system | Water-cooled | |
| Bore | mm | 102 mm |
| Stroke | mm | 118 mm |
| Compression ratio | 17:1 | |
| Displacement | L | 3.86 L |
| Dry engine weight | kg | 320 kg |
| Dimension (L*W*H) | mm | 820*740*780 |
| The Flywheel shell interface | SAE3-11.5" | |

Performance Data

| | | |
|------------------------------------|-------------|-------------------------|
| Governed Engine Speed | r/min | 1800 |
| Continuous Power without Fans | kW | 45 |
| Standby Power | kW | 49.5 |
| Adaptive power station (kw) | kW | 36 |
| Steady state speed regulation rate | % | N/M 0-3 / Electrical |
| Emission Standards | CN Stage II | |
| Noise Level | dB | ≤109 |
| Average effective pressure | mPa | 0.78 |

Lubrication system

| | | |
|-----------------------------|-----|-------|
| Lubricating oil capacity | L | 13 |
| Lubricating oil consumption | L/h | ≤0.05 |

Fuel system

| | | |
|-----------------------|--------|-------|
| Fuel consumption PRP | kg/h | 10.13 |
| Fuel consumption Rate | g/kW·h | |
| 25% prime power | g/kW·h | 270 |
| 50% prime power | g/kW·h | 245 |
| 75% prime power | g/kW·h | 225 |
| 100% prime power | g/kW·h | 225 |

| | | |
|--------------------|--------|-----|
| 100% standby power | g/kW·h | 228 |
|--------------------|--------|-----|

Air intake system

| | | |
|--|---------------------|------|
| Air consumption | m ³ /min | 3.2 |
| Maximum allowed intake pressure | kPa | 6.3 |
| Exhaust gas discharge | m ³ /min | 8.9 |
| Exhaust temperature (exhaust gas after turbine) | °C | 560 |
| Exhaust heat | kw | 42.9 |
| Maximum allowed back pressure | kPa | 6.7 |

Heat balance

| | | |
|---------------------------------|----|------|
| Engine heat output | kw | 3.6 |
| Heat removal of coolant | kw | 30.6 |
| Heat dissipation of intercooler | kw | 0 |

Cooling system

| | | |
|---------------------------------|-----------------------|-------------|
| Fan Speed Ratio | | 1.68 |
| Pump Flow head | L/s | 3.4 |
| Coolant capacity-engine | L | 8 |
| Fan diameter | mm | 420 |
| Fan speed | R/min | 3027 |
| Fan flow | m ³ /s/Pa) | 1.32/570 |
| Fan power consumption | kW | 2.25 |
| Coolant capacity-Radiator | L | 12 |
| Thermostat on / off temperature | °C | |
| Noted:Pump Flow / Speed head | | 174/3200-10 |

Electrical system

| | | |
|---------------------------------------|--|------|
| Auxiliary voltage (V) | | 24 V |
| Alternator (A) | | 35 |
| Starter Motor (kw) | | 4.5 |
| Start preheater (kw) | | 1.0 |
| Number of teeth of flywheel ring gear | | 128 |

Power Calibration Regulations

1.The diesel engine performance data specified above are based on the atmospheric environment specified in the GB/T6072.1/ISO3046-1 standard.

The atmospheric pressure is 100kPa, the ambient temperature is 25°C, and the air humidity is 30%. Fuel calorific value 42.7mJ/kg

2.Prime power refers to the output power that the diesel engine can run for a long time without time limit

under this working condition

3. Standby power refers to that the diesel engine is allowed to work continuously for 1 hour under the limited power of fuel volume every 6 hours

Power correction

1. The diesel engine can be used without reducing the power when the altitude is 400m and the ambient temperature is less than 40°C.

2. When the environment deviates from the standard, the operating power of the diesel engine shall be corrected according to the following table

| | | |
|---------------------|------|---------------|
| Altitude < 3000m | %/m | 4/500 |
| Altitude > 3000m | %/m | 6/500 |
| Ambient Temperature | %/°C | 2/5 |
| Humidity | % | No correction |

Fuel consumption rate

Unless otherwise specified, the allowable deviation of calibrated fuel consumption rate at rated power is + 5%

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