

経歴 Rev.

0

ENGINE SPECIFICATIONS

| | |
|--------------|----------------------------|
| Engine Model | Engine series 3CA1(Tier-4) |
| | Model No. 3CA1-GZG01 |
| Customer | EXPORT |
| Application | Generator |
| Drawing No. | C1-1021-001-0 |

| Symbol | Date | Revision Record | Issue No. |
|--------|---------------------------|--|-----------|
| 0 | 6 th Nov. 2008 | For confirmation of prototype engine specifications. | |
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Engine Specifications

Model No. 3CA1-GZG01

Rev.

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| | |
|---------------------------------|--|
| Engine Model | Model No. 3CA1-GZG01 |
| Application | Generator |
| Approved exhaust emission cert. | EPA, ARB-OR : Tier-4 |
| Engine type | Four cycle, water cooled, In-line, Indirect injection type |
| No. of cylinders-bore x stroke | 3 - 70.0 mm x 74.0 mm |
| Total piston displacement | 0.854 L |
| Compression ratio | 23.4 to 1 |

| | |
|--------------------|--------|
| Engine performance | Rating |
|--------------------|--------|

| | |
|--|------------------------------------|
| Test conditions | Standard atmospheric condition |
| Conforming standard JPN;JIS D0006-1 US;SAEJ1349 EU;ISO15550 | With AC generator and cooling fan |
| | With air cleaner and exh. silencer |

| | |
|----------------------------|--|
| Rated Output | : 6.7 kW / 1500 min ⁻¹ : 8.0 kW / 1800 min ⁻¹ |
| Continuous rating | : 6.1 kW / 1500 min ⁻¹ : 7.3 kW / 1800 min ⁻¹ |
| Fuel consumption at rated. | : 268 g/kw.h |
| No load max. speed | : 1915 ± 25 min ⁻¹ |
| Low idle speed | : 1500 ± 25 min ⁻¹ |
| Type of fuel | : Diesel fuel only (JPN:JIS-NO.2, US:ASTM-2D, EU:EN590) |
| Engine dry weight | : Approx. 102 kg |
| Dimensions | : L 529.0 x W 463.0 x H 668.0 (With cooling fan) |
| Firing order | : 1 - 3 - 2 - 1 |
| Rotating direction | : Clockwise viewed from cooling fan |

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Fuel system

| | |
|-----------------------|--------------------------------|
| Fuel injection pump | Bosch in-Line |
| Fuel injection nozzle | Hole type |
| Fuel filter | Paper element type |
| Governor type | Centrifugal-all speed governor |

Lubrication system

| | |
|-------------------------|---|
| Lubricating system | Forced feed type |
| Oil grade | API class CD, SAE grade 10W30 |
| Lubricating pump | Trochoid pump type |
| Oil filter | Paper element |
| Oil capacity | max : 2.8 L min : 1.5 L |
| Oil pressure(reference) | 3.5 kgf/cm ² at rated output |

Cooling system

| | |
|------------------|--|
| Heat exchanger | None |
| Coolant pressure | max. 0.9 kgf/cm ² |
| Cooling fan | Dia. 310 - 5 - pusher, crank pulley/fan pulley = 110/100 |
| Cooling water | 0.9 L (engine only) |

Air cleaner

Installed(4 inch)

Breather system

Closed type

Starting aid system

Glow plug

Starter

12V - 1.0kW

Generator

12V - 14A

Allowable inclination angleLongitudinal : 30(25), Lateral : 30(25)
intermitted, (continuous)**Fuel injection timing**

FID 16

Engine colorBlack

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Loose parts

| No. | Parts No. | Item | Qty | Remarks |
|-----|--------------|------------------------|-----|---------|
| 1 | Z29942-07760 | Label,Fuel oil caution | 1 | |
| 2 | 586400-6330 | Gasket, silencer | 1 | |
| 3 | 586400-0240 | Pump, fuel feed | 1 | |
| 4 | 586400-8170 | Separator assy, water | 1 | |
| 5 | 586400-0550 | Diode | 1 | |
| 6 | 586400-0560 | Relay assy, glow | 1 | |
| 7 | 586400-8120 | Timer, glow | 1 | |
| 8 | 586400-2190 | Timer, section 1 | 1 | |
| 9 | 586400-0250 | LIMITER, CURRENT 20A | 1 | |

ISUZU

**3CA1-GZG01(Tier-4)
ENGINE PERFORMANCE
CURVE**

| CONDITIONS | RATING |
|-----------------------|--|
| ATMOSPHERIC CONDITION | Standard: JIS D0006 Standard: SAE 1349 NET (with Fan) |
| RUN IN | 0.1hr |
| PULLEY RATIO | 110/100=1.1 |
| COOLING FAN | With (Dia.310-pusher) |
| AIR CLEANER | With |
| ALTERNATOR | With |
| EXHAUST SILENCER | With |

