

経歴 Rev.

0

ENGINE SPECIFICATIONS

Engine Model	Engine series 3CC1(Stage-IIIA)
	Model No. 3CC1-BDZP01
Customer	Pitteri Violini
Application	General power (except Generator)
Drawing No.	B3-19960-0050

Symbol	Date	Revision Record	Issue No.
0	6 th Jun. 2014	For proto type engine	

ISUZU MOTORS LIMITED
Powertrain Business Dept.

Approved



A.Tajima

Checked



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Prepared



T.Asano

Engine Specifications	Model No.	3CC1-BDZP01	Rev.	0
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Engine Model	Model No.	3CC1-BDZP01
Application	General power (except Generator)	
Approved exhaust emission cert.	Stage-IIIA	
Engine type	Four cycle, Inline, Water-cooled, Direct Injection type	
No. of cylinders-bore x stroke	3 - 82.0 mm x 84.0 mm	
Total piston displacement	1.331 L	
Compression ratio	19.1 to 1	

Engine performance	Rating
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Test conditions	Standard atmospheric condition
	With AC generator, Without cooling fan
	With air cleaner and exh. silencer

Rated Output (Net)	: 21.9 kW / 3000 min ⁻¹
Intermediate Torque	: 78.4 to 85.4 Nm / 1800±100 min ⁻¹
Fuel consumption at rated	: 263 g/kW.h
No load max. speed	: 3180±25 min ⁻¹
Low idle speed	: 900±25 min ⁻¹
Type of fuel	: Diesel fuel only
Engine dry weight	: Approx. 128 kg
Dimensions	: L 551.0 x W 505.0 x H 617.0 (With cooling fan)
Firing order	: 1 - 3 - 2 - 1
Rotating direction	: Counterclockwise viewed from Flywheel

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Fuel system

Fuel injection pump	Distributor type
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 : 5.5 L min : 1.9 L
Oil pressure(reference)	3.6 kgf/cm ² at rated output

Cooling system

Heat exchanger	None
Coolant pressure	max. 0.9 kgf/cm ²
Cooling fan	Dia.335 - 7 blades - Puller, crank pulley/fan pulley = 110/110
Coolant capacity	1.8 L (engine only)

Air cleaner

None

Breather system

Closed type

Starting aid

Glow plug(super quick glow)

Starter

12V - 1.7kW

Generator

12V - 40A

Allowable inclination angle

Longitudinal : 35(30) deg, Lateral : 35(30) deg
intermitted, (continuous)

Fuel injection timing

FIT13.5

Engine color

Black

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Loose parts

No.	Parts No.	Item	Qty	Remarks
1	586401-9510 (129085-07700)	LABEL, FUEL OIL CAUTION	1	
2	586400-1420 (129004-13200)	GASKET, SILENCER	1	
3	586400-0240 (119225-52102)	PUMP, FUEL FEED	1	
4	586401-8690 (129335-55750)	SEPARATOR ASSY, WATER	1	
5	586400-0550 (119643-66900)	DIODE, STOP SOLENOID	1	
6	586401-9520 (119650-77911)	RELAY ASSY, GLOW PLUG	1	
7	586400-1240 (128300-77920)	TIMER, GLOW PLUG	1	
8	586400-2190 (129211-77920)	TIMER, STOP SOLENOID	1	

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3CC1-BDZP01 (Stage-IIIA) ENGINE PERFORMANCE CURVE

Conditions	Rating
Atmospheric conditions	Standard
Fan speed ratio	110/110=1.0
Cooling fan	With
Air cleaner	Air intake restriction : 2.9kPa
Alternator	With (No load)
Exh. Silencer	Exhaust back pressure : 9.8kPa

