

Generator

Bruno 300KVA Stage V FQ330S V

Document No: G08000958
Revision: D
Created By: B. Whitehorn
Approved By: J. Darroch
Approval Date: 09/09/2024
Page: 1 of 5

Model

Model reference GN0300STVCAN

Model size and rating 300 kVA

Bill of Material reference number 601378 A

Manufacturer

Model Reference FQ330S V

Electrical Output

Electrical Output Hz (Hz) 50.0 (50)

Voltage Capability Three Ph 415V

Voltage Capability Single Ph 230V

Performance Data

Design Rating (Continuous) kVA (kW) 300.0 (240)

Maximum Ambient °C (°F) 50.0 (122)

Electrical (ISO 8528-1) *

Continuous Power (COP) kW (kVA) 216.0 (270)

Prime Power (PRP) kW (kVA) 240.0 (300)

Electrical (ISO 3046-1) **

Single Step Load Application kW (kVA) 160.0 (200)

Fuel Stop Power/Standby kW (kVA) 264.0 (330)

Fuel Stop Power/Standby 220 1ph kW (kVA) 80.0 (100)

Fuel Stop Power/Standby 220 3ph kW (kVA) 200.0 (250)

Fuel Stop Power/Standby 220/400 3 ph kW (kVA) 200.0 (250)

Electrical (Single Phase)

Continuous Power (COP) Single Ph kW (kVA) 72.0 (90)

Prime Power (PRP) Single Phase kVA (kW) 100.0 (80)

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ISO references apply to Aggreko Manufacturing built equipment only

* ISO 8528-1 Reciprocating Internal Combustion Engine Driven Alternating Current Generating Sets:

Part 1 - Application, Ratings and Performance

** ISO 3046-1 Reciprocating Internal Combustion Engines: Performance:

Generator

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Power / Standby Single Phase	kVA (kW)	100.0	(80)
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Alternator

Class F Temp Rise (105°C) Three Phase	kW (kVA)	240.0	(300)
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Class H Temp Rise (125°C) Three Phase	kW (kVA)	264.0	(330)
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Ends Out	12
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Make & Type	Leroy Somer LSA46.3 M8
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AVR	AREP - D350
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Regulation	± 0,25%
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Speed	1500rpm
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Circuit Breaker

Make & Type	Schneider Electrics NSX630F
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Number of Poles	4
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Rating	Amp (Amp)	630.0	(630)
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Trip Unit Type	Micrologic 2.0
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Load Terminals

Type	BUSBAR M12
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Engine

Make & Type	SCANIA type DC09320A0263
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Cylinders & Form	5 L
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Aspiration	Turbocharged
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Fuel Pump	Scania XPI
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Governor Make & Type	Scania Engine Management System, EMS
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Battery Voltage	Volts (Volts)	12.0	(12)
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Fuel Type	Diesel 4 Stroke Injection
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ISO8528-1 Reciprocating Internal Combustion Engine

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Application	Compliant
Ratings	Compliant
Performance	Compliant

ISO3046-1 Reciprocating Internal Combustion Engine

Declarations of Power	Scania datasheet
Lubricating Oil Consumptions	< 0,2 g/kWh

Diesel Fuel Consumption

100% Prime Power	L (US gal)	57.0	(15.048)
75% Prime Power	L (US gal)	43.0	(11.352)
50% Prime Power	L (US gal)	28.5	(7.524)

Diesel Exhaust Fluid Consumption (As a percentage of Fuel Consumption)

100% Prime Power	% (%)	8.7	(8.7)
75% Prime Power	% (%)	8.1	(8.1)
50% Prime Power	% (%)	9.5	(9.5)

Diesel Exhaust Fluid Consumption

100% Prime Power	L/hr (US gal/hr)	5.0	(1.32)
75% Prime Power	L/hr (US gal/hr)	3.5	(0.924)
50% Prime Power	L/hr (US gal/hr)	2.7	(0.713)

HVO Fuel Consumption

100% Prime Power	L/hr (US gal/hr)	59.98	(15.835)
75% Prime Power	L/hr (US gal/hr)	45.25	(11.946)
50% Prime Power	L/hr (US gal/hr)	29.99	(7.918)

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Diesel Run Hours

100% Prime Power	Hours (Hours)	12.0	(12)
75% Prime Power	Hours (Hours)	17.0	(17)
50% Prime Power	Hours (Hours)	25.5	(25.5)

HVO Run Hours

100% Prime Power	L/hr (US gal/hr)	11.4	(3.01)
75% Prime Power	L/hr (US gal/hr)	16.1	(4.25)
50% Prime Power	Hours (Hours)	24.2	(24.2)

Exhaust Emissions

Measurement Method	e5*2016/1628*2016/1628EC6/D*0 132*01
NOx - Oxides of Nitrogen	0.345 g/kWm-h
PM - Particulate Matter	0.0019 g/kWm-h
CO - Carbon Monoxide	0.038 g/kWm-h
HC - Unburnt Hydrocarbons	0.005 g/kWm-h

Exhaust Silencer

Make & Type		BRUNO SRL type SP40SIL00353	
Permissible Back Pressure		Back pressure allowance of 0,84 kPa on exhaust to accommodate field fit options required (as Aggreko specification)	
Silencer Inlet Diameter	mm (ins)	140.0	(5.512)
Silencer Outlet Diameter	mm (ins)	140.0	(5.512)

Noise Data

Sound Power - EEC	90 LwA Measured Value – 92 LwA Maximum Guaranteed
Sound Pressure at 1m/3ft	72.8 dBA at 75% load
Sound Pressure at 7m/21ft	63.4 dBA at 75% load

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Other Capacities and Dimensions

Lube Oil Capacity - Total	L (US gal)	36.0	(9.504)
Lube Oil Capacity - Pan	L (US gal)	31.0	(8.184)
Coolant Capacity - Gross	L (US gal)	58.0	(15.312)
Total ADBLUE Tank capacity	L (US gal)	60.0	(15.84)
Consumption ADBLUE/Fuel, Percentage of the litres (worst case)	% (%)	8.7	(8.7)

Lifting

Overhead

Certification for lifting hook provided

Additional Information

Exhaust gas temperature

453°C. (as engine datasheet)

Physical Characteristics

Length	4.5 m	14.76 ft
Width	1.2 m	3.94 ft
Height	2.46 m	8.07 ft
Gross Weight	5540 kg	12213.61 lbs
Net Weight	4860 kg	10714.47 lbs
Gross Fuel	750 lit	198.13 US gal
Net Fuel	730 lit	192.85 US gal