



Kronos

HZA3-7M

Powered by:

HATZ 1B 40

5,6 kW at 50 Hz

Sound pressure level at 7m: 80 dBA

Generating Set Performance		50 Hz
SERVICE		Electric power
Active power	kW	5,6
Rated speed	r.p.m.	3.000
Standard voltage	V	230

Performance data refers to Standard Reference Conditions of DIN ISO 3046: + 25 °C , 100 m ALT, relative humidity 30 %
 During running-in period the output increases by approx. 5 % which is taken into consideration at delivery.
 Power reduction acc. to DIN ISO 3046.
 Standard values: Above 100 m ALT approx. 1 % per 100 m. Above 25 °C (77 °F) approx. 4 % per 10 °C (50 °F).

Prime Mover Performance		S*	B*
Rated output	kW	6,2	6,8
	CV	8,4	9,3
Manufacturer		HATZ	
Engine model		1B 40	
4 Stroke Diesel Engine - Injection type		Direct	
Aspiration type		Axial blower fan	
Cylinders, number and arrangement		1	
Bore x stroke	mm - in	88 x 76 - 3,46 x 2,99	
Total displacement	L - in ³	0,462 - 28,19	
Cooling system		Air	
Lube oil specifications		15 W 40	
Compression ratio		22 : 1	
Specific fuel consumption	g/kWh	275	
Specific oil consumption		Approx. 1% of fuel consumption	
Lube oil maximum capacity	L - US qts	1,55 - 1,64	
Lube oil minimum capacity	L - US qts	0,77 - 0,81	
Speed governor	Type	Mechanical	
Air filter		Dry	

S* : ISO-STANDARD POWER (ICXN) (10% overload permissible) and ISO-STANDARD FUEL STOP POWER (no overload permissible) according to DIN ISO 3046.
 For constant speed and constant load (ICFN).

B* : ISO BRAKE FUEL STOP NET POWER (IFN) for intermittent load acc. to DIN ISO 3046.

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 Power reduction acc. to DIN ISO 3046.
 Standard values: Above 100 m ALT approx. 1 % per 100 m. Above 25 °C (77 °F) approx. 4 % per 10 °C (50 °F).

Synchronous Generator*

Poles	Nº	2
Winding connections (Standard)		Serie
Frame mounting		B9/B23
Windings treatment	Type	For humid - saline climate
Insulation	Class	H
Damper windings		Yes
Enclosure (according to IEC-34-5)		IP 20
Waveform distortion		No more than 6%
Exciter system		Condenser
Voltage regulator		Brushless autoexciter
Steady voltage precision		± 6%

* Alternators used by HIMOINSA Gensets meet the requirements of following Standard: IEC 34-1; CEI 2-3; BS 4999-5000; VDE 0530; NF 51-100, 111

Generating Set Installation Data		3.000 r.p.m.
EXHAUST SYSTEM		
Max. exhaust temperature at full load	C°	485
	F°	905
Exhaust gas flow	Q(m³/h)	95
Heat rejected to exhaust	(kW-IFN)	6,8
Maximum allowed back pressure	mm/WS	270
AIR REQUIREMENT		
Air requirement for combustion at 100% load / rated speed	m³/min	0,52
	ft³/min	19
ELECTRIC STARTING SYSTEM		
Starting motor output	kW	0,8
	CV	1,09
Minimum recommended battery capacity	Ah	14V aprox. 14A
Auxiliary voltage	Vcc.	12V
LIQUID CAPACITY		
Lube oil system including sump, filters, etc.	L	1,1 max. / 0,6 min.
	qts	1,16 max. / 0,63 min.
Fuel tank capacity	L	5
WEIGHT AND DIMENSIONS		
Length	m - ft	0,83 - 2,72
Width	m - ft	0,62 - 2,03
Height	m - ft	0,6 - 1,97
Shipping volume seaworthy packing (standard supplier)	m³ - ft³	0,31 - 10,9
Dry weight (with standard accessories)	kg - lb	120 - 264

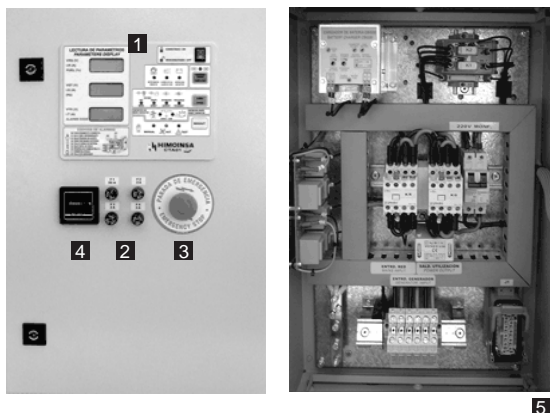
CONTROL PANEL

Key start control panel



- 1.- Voltmeter
- 2.- Hour meter 230V
- 3.- Battery charger led
- 4.- Oil pressure led
- 5.- Two poles thermal magnetic protection
- 6.- Earth leakage (differential) protection
- 7.- Start key
- 8.- Protection fuses
- 9.- Earth connection. (Panel backside)

Automatic control panel



- 1- AUTOMATIC switchboard model CTA01
 READINGS:
 Amps per phase, Frequency meter, Voltage mains and genset, Mains detector.
 ACOUSTIC ALARMS THROUGH CODE FOR:
 Low oil pressure, Alternator battery charger failure, High temperature, Start failure.
- 2- Protection fuses
- 3- Emergency stop button.
- 4- Hour meter.
- 5- INTERNAL COMPOSITION:
 Change over contactor mains-genset, Battery charger, Current transformers, Plate voltmeter transformers for mains (voltage measure), Plate voltmeter transformers for genset (voltage measure), Electronical and mechanical interlocking for contactors, Terminal rail for output / input, Plate relay switch off /on, Engine wiring connection, Strip earth connection, 2 poles thermal magnetic protection, 6 mt control cables manoeuvre.