



# GENERATOR TYPE HCP 34-3S/24

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Electrical Characteristics			
Frequency	Hz		400
Voltage (star)	V		208
Rated power class H (125°C)	kVA		125
	kW		100
Rated power class F (105°C)	kVA		110
	kW		88
Rated power class B (80°C)	kVA		100
	kW		80
Regulation with	SR7/H400B	±1% with any power factor and speed variations between -5% +30%	
Insulation class		H	
Execution		Brushless	
Stator winding		6 ends	
<b>Submittal Data : 208V, 100KVA, 2000RPM, 400Hz, 3 Phase</b>			<b>MIL-STD-705B</b>
Efficiencies	4/4	%	92,6
(see graph. for details)	3/4	%	92,4
	2/4	%	90,2
	1/4	%	86
Reactances	Xd	p.u.	1,22
	Xd'	p.u.	0,13
	Xd''	p.u.	0,07
	Xq	p.u.	0,97
	Xq'	p.u.	0,97
	Xq''	p.u.	0,20
	X <sub>2</sub>	p.u.	0,12
	X <sub>0</sub>	p.u.	0,02
Short Circuit Ratio	Kcc		0,47
Time Constants	Td'	sec.	0,024
	Td''	sec.	0,0062
	Tdo'	sec.	0,102
	Tα	sec.	0,091
Short Circuit Current Capacity		%	>300
Excitation at no load		Amp.	0,9
Excitation at full load		Amp.	2,7
Overload (long-term)		%	1 hour in a 6 hours period 110% rated load
Overload per 20 sec.		%	300
Stator Winding Resistance (20°C)		Ω	0,0086
Rotor Winding Resistance (20°C)		Ω	9,182
Exciter Resistance (20 °C)		Ω	Rotor : 0,595 Stator : 15,80
Heat dissipation		W	7.991
Telephone Interference			FHT < 2% ; TIF < 100
Radio interference			EN60034-1. For others standards apply to factory
Waveform Distors.(THD) at f. load		% LL	1,5
Individual harmonic max. at f. load		% LL	0,9
Insulation resistance		MΩ	> 2
High Potential Test	Volts		Main Stator : 2000 Main Rotor : 1500
	Volts		Exciter Stator : 1500 Exciter Rotor : 1500
Phase sequence			1 - 3 - 5
Mechanical characteristics			
Protection			IP 21 (other protection on request)
DE bearing			6314.2RS
NDE bearing			6311.2RS
Weight of complete generator	kg		395
Synchronous Speed	rpm		2000
Maximun overspeed	rpm		2500
Cooling air requirement	m³/min		25,5
Noise level at 1m/7m	dB(A)		85 / 71

All technical data are to be considered as a reference and they can be modified without any notice.

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208V - 400Hz

