



GENERATOR TYPE HCP 34-VL/24

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Electrical Characteristics			
Frequency	Hz		400
Voltage (star)	V		208
Rated power class H (125°C)	kVA		180
	kW		144
Rated power class F (105°C)	kVA		160
	kW		128
Rated power class B (80°C)	kVA		145
	kW		116
Regulation with	SR7/H400B	±1% with any power factor and speed variations between -5% +30%	
Insulation class		H	
Execution		Brushless	
Stator winding		6 ends	
Submittal Data : 208V, 120KVA, 2000RPM, 400Hz, 3 Phase			MIL-STD-705B
Efficiencies	4/4	%	93,3
(see graph. for details)	3/4	%	92,4
	2/4	%	90,5
	1/4	%	87,7
Reactances	X _d	p.u.	1,37
	X _d '	p.u.	0,17
	X _d "	p.u.	0,094
	X _q	p.u.	1,10
	X _q '	p.u.	1,10
	X _q "	p.u.	0,23
	X ₂	p.u.	0,16
	X ₀	p.u.	0,035
Short Circuit Ratio	K _{cc}		0,40
Time Constants	T _d '	sec.	0,04
	T _d "	sec.	0,01
	T _{do} '	sec.	0,180
	T _α	sec.	0,14
Short Circuit Current Capacity		%	>300
Excitation at no load		Amp.	1,2
Excitation at full load		Amp.	3,6
Overload (long-term)		%	1 hour in a 6 hours period 110% rated load
Overload per 20 sec.		%	300
Stator Winding Resistance (20°C)		Ω	0,0041
Rotor Winding Resistance (20°C)		Ω	12,56
Exciter Resistance (20 °C)		Ω	Rotor : 0,595 Stator : 15,80
Heat dissipation		W	10.413
Telephone Interference			FHT < 2% ; TIF < 100
Radio interference			EN60034-1. For others standards apply to factory
Waveform Distors.(THD) at f. load		% LL	1,9
Individual harmonic max. at f. load		% LL	1,7
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	560
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

