



GENERATOR TYPE HCP 34-1L/24

Document : DS119A/1
issue 001 date 14/09/2009

Electrical Characteristics			
Frequency	Hz		400
Voltage (star)	V		208
Rated power class H (125°C)	kVA		150
	kW		120
Rated power class F (105°C)	kVA		135
	kW		108
Rated power class B (80°C)	kVA		120
	kW		96
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	%	93,1
(see graph. for details)	3/4	%	92
	2/4	%	90,3
	1/4	%	87
Reactances	Xd	p.u.	1,44
	Xd'	p.u.	0,18
	Xd''	p.u.	0,10
	Xq	p.u.	1,12
	Xq'	p.u.	1,12
	Xq''	p.u.	0,25
	X ₂	p.u.	0,18
	X ₀	p.u.	0,04
Short Circuit Ratio	Kcc		0,42
Time Constants	Td'	sec.	0,03
	Td''	sec.	0,009
	Tdo'	sec.	0,150
	Tα	sec.	0,12
Short Circuit Current Capacity		%	>300
Excitation at no load		Amp.	1
Excitation at full load		Amp.	3,1
Overload (long-term)		%	1 hour in a 6 hours period 110% rated load
Overload per 20 sec.		%	300
Stator Winding Resistance (20°C)		Ω	0,0033
Rotor Winding Resistance (20°C)		Ω	6,649
Exciter Resistance (20 °C)		Ω	Rotor : 0,595 Stator : 15,80
Heat dissipation		W	8.894
Telephone Interference			FHT < 2% ; TIF < 100
Radio interference			EN60034-1. For others standards apply to factory
Waveform Distors.(THD) at f. load		% LL	1,8
Individual harmonic max. at f. load		% LL	1,2
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	460
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

