



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

