

Datasheet For 4 Poles - 50Hz @ 1500rpm

Ambient Temperature	40 °C	Excitation	Brushless	Short Circuit Current Capacity (with PM	IG) ≥300%
Temperature Rise	125K	Winding Pitch	5 / 6	Method of Cooling	IC01
Service Duty	Continuous	Power Factor	0.8	Direction of Rotation	Counter-clockwise
Phase	3	Insulation Class	Class H	Maximum Over-speed	1800 rpm
Pole	4	Waveform : TIF	<50	Degree of Protection	IP23
Voltage Regulation	+/- 0.5%	Waveform : THF	<2%	Radio interference	Class B Group 1
AVR Model	AVC125-10A1	Altitude	≤1000 m.a.s.l	Total Harmonic Content	<2% - At no load

Electrical and Mechanical Characteristic

Frequency	Hz		50		
Round per minute	rpm		1500		
Voltage (Y Connection) - Star	V		10500		
Poted newspot Class H (125K) temperature rise	kVA		3250.0		
Rated power at Class H (125K) temperature lise	kW		2600		
Rated current	Α		178.7		
	100%	96.3			
Efficiency at Class H (P.F.=0.8)	75%	% 96.2			
	50%	95.5			
	100%	97.1			
Efficiency at Class H (P.F.=1.0)	75%	75% 97.0			
	50%	96.3			
Short-circuit ratio	Kcc	0.5200			
Direct axis synchronous reactance unsaturated	Xd	2.3090			
Quadrature axis synchronous reactance unsaturated	Xq	1.2980			
Direct axis transient reactance saturated	X'd	0.1700			
Direct axis subtransient reactance saturated	X''d	0.1170			
Quadrature axis subtransient reactance saturated	X''q	0.1320			
Zero sequence reactance unsaturated	X0	0.0610			
Leakage reactance	\mathbf{X}_{L}	0.0870			
Negative sequence reactance saturated	X2	X2 0.1245			
Open circuit time constant (sec.)	T'do		5.6950		
Short-circuit transient time constant (sec.)	T'd	0.4600			
Subtransient time constant (sec.)	T''d	0.0042			
Armature time constant (sec.)	Τα	0.0417			
No load excitation current	io(A)	1.8			
Full load excitation current	ic(A)	4.6			
Full load excitation voltage	uc(V)	(V) 55			
Stator Winding Resistance (20°C)	ohm	0.2721			
Rotor Winding Resistance (20°C)	ohm	1.143			
Exciter Stator Resistance (20°C)	ohm	10.09			
Exciter Rotor Phase resistance	ohm	m 0.00944			
Cooling air requirement	m ³ /sec	n ³ /sec 4.23			
Configuration		Single Rearing	Double Bearing		
Type of Construction		B2 - SAF	IM R20		
Inertia (I) [kgm?]			150.3		
Total Weight		/	7934		
Drive end hearing / Lubrication		Not supply	6334C3 / With grease nipple		
Non-drive end bearing / Lubrication		6332 C3 / With grease ninnle			
Recovery time - sec		0 5			
Stator winding		DOUBLE LAVER LAP			
Number of Terminal		6			
Rotor		with damping cage			
Overload		110% rated load for 1 hour			
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STANDARD COMPLIANCE - IEC 60034-1; CEI 2-3; BS 4999-5000; VDE 0530; NF 51-100,111; OVE M-10, NEMA MG 1.22.

Data and Technical Specification are subject to change in order to update or improve the products, without prior notice