

英格高压发电机技术参数

ENGGA GENERATORS of Technical Datas

Type	型号	EG500—(1000/1200/1400/1500)G/6300					
Winding Pitch	线圈节距		5/6				
Frequency	频率	Hz	50				
Voltage(series star)	电压(星形)	V	6300				
Capacity	视在功率	kVA	1250	1500	1750	1875	
Rated power at Class F(115K).	额定功率	kW	1000	1200	1400	1500	
Rated current	额定电流	A	114.6	137.5	160.4	171.8	
a) at 1/4 load (%)	25%负载	1/4 %	86.4%	86.5%	87.1%	87.3%	
b) at 1/2 load (%)	50%负载	2/4 %	91.5%	91.5%	91.9%	92.1%	
c) at 3/4 load (%)	75%负载	3/4 %	93.3%	93.4%	94 %	94 .2%	
d) at full load (%)	100%负载	4/4 %	94.1%	94.4%	94 .6%	94 .9%	
Reactances and time constants	电抗和时间常数						
Short-circuit ratio	短路比	Kcc	0.6	0.38	0.60	0.439	
Direct axis synchronous reactance(unsaturated)	直轴同步电抗 (不饱和)	Xd	1.9	2.2	2.1	2.5	
Quadrature axis synchronous reactance(unsaturated)	交轴同步电抗 (不饱和)	Xq	1.00	1.13	1.079	1.407	
Open circuit time constant(sec.)	开路电流时间常数	T' do	1.75	1.74	1.816	2.573	
Direct axis transient reactance(saturated)	直轴瞬态电抗 (饱和)	X' d	0.27	0.303	0.283	0.305	
Short-circuit transient time constant(sec.)	瞬变电流时间常数	Td	0.239	0.237	0.242	0.309	
Direct axis transient reactance (saturated)	直轴超瞬变电抗 (饱和)	X" d	0.191	0.216	0.201	0.195	
Subtransient time constant(sec.)	超瞬变时间常数	T" d	0.004	0.004	0.004	0.004	
Quadrature axis subtransient reactance(saturated)	交轴超瞬变电抗 (饱和)	X" q	0.106	0.119	0.109	0.214	
Zero sequence reactance(unsaturated)	零序电抗 (不饱和)	Xo	0.07	0.079	0.071	0.074	
Leakage reactance	漏电抗	X1	0.07	0.08	0.07	0.11	
Negative sequence reactance(saturated)	负序电抗 (饱和)	X2	0.136	0.153	0.141	0.2	
Armature time constant(sec.)	电枢时间常数	Ta	0.029	0.037	0.039	0.044	
No load excitation current	空载励磁电流	io(A)	1.46	1.16	1.76	1.76	
Full load excitation current	满载励磁电流	ic(A)	4.06	4.31	4.57	4.57	
Full load excitation voltage	满载励磁电压	uc(V)	55.7	59.1	62.7	62.7	
No load losses	空载损耗	kW	24	26.74	29.72	29.72	
Heat dissipation at full load at class F	满载总损耗功率	kW	62.7	71.2	79.9	79.9	
Short Circuit Current Capacity	短路电流能力	%	>500				
Recovery time	恢复时间	s	0.5				
Waveform : THF	THF		<2%				
Voltage regulation	电压调整		±1%				
A.V.R Model	电压调节器型号		EA125-8				
Duty	工作制		S1				
Number of terminal poles	出线根数 极数		6 4				
Insulation class	绝缘等级		F				
Rated Power Factor	额定功率因数		0.8				
Excitation System	励磁方式		Brushless and PMG				
Stator winding	定子线圈		6 ends Leads				
Rotor	转子		With damping cage				
Overload	过载能力	%	10%for1hour,in every 12hours				
Resistance of Stator Winding (20℃)	定子电阻(20℃)	Ω	0.28	0.28	0.21	0..29	
Resistanceof Rotor Winding (20℃)	转子电阻(20℃)	Ω	0.93	0.95	1.042	1.042	
Resistance of Exciter (20℃)	励磁电阻(20℃)	Ω	10.01	10.01	10.01	10.01	
Air flow	冷却风流量	m ³ /min	220.8	220.8	220.8	220.8	
Energy storage contant (H)	储能常数	Sec	0.501	0.464	0.423	0.423	
Type of cooling	冷却方式		IC01				
Ambient Temperature	环境温度		40℃				
Direction of Rotation of Generator	转动方向		Clockwise-DE				
Type of Construction	结构形式		Double bearing				
Protection/Enclosure	防护等级		IP23				
Maximum Overspeed	最大超速能力	rpm	2160				
Total Weight of Generator	发电机总重	kg	5014	5214	5673	5750	