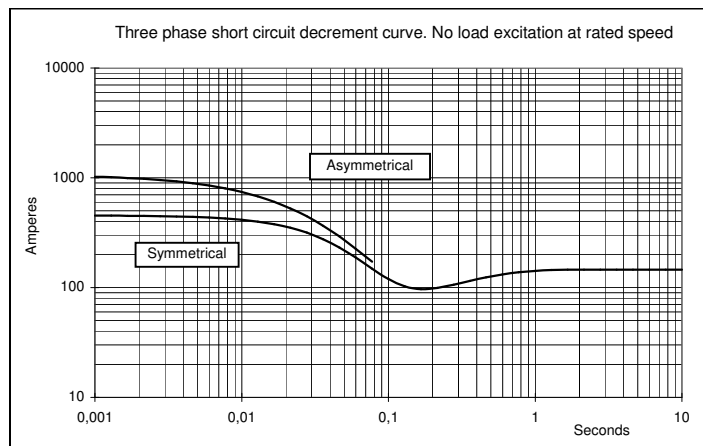
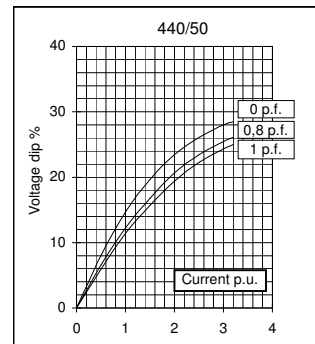
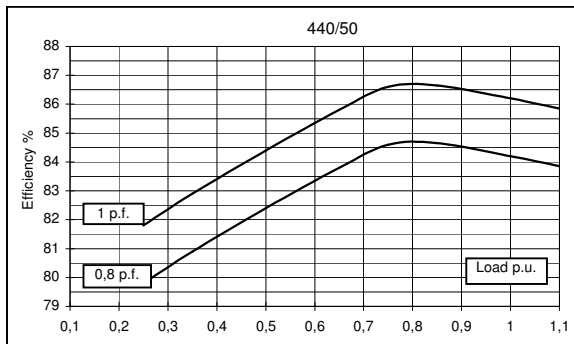
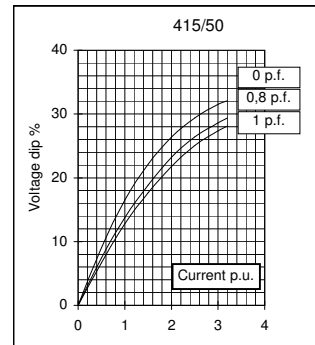
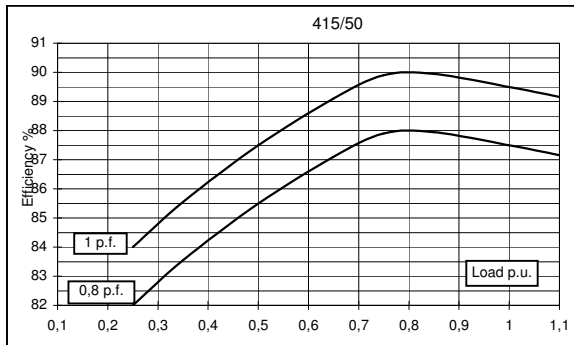
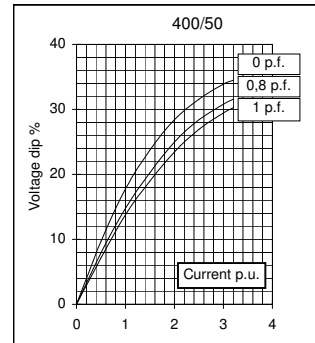
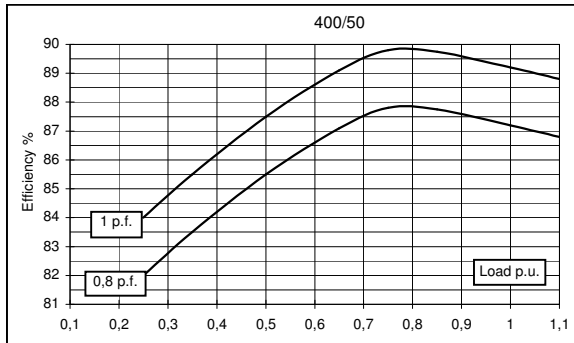
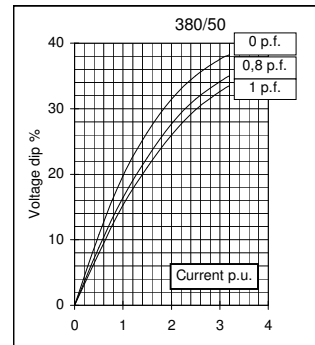
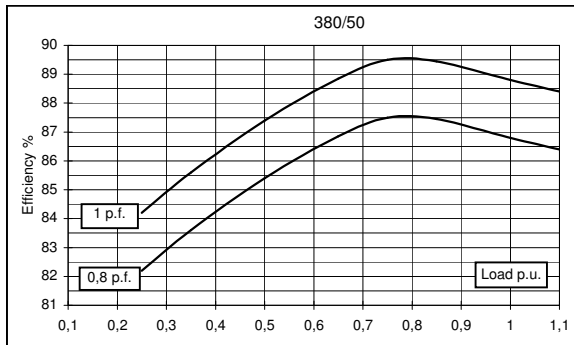


Electrical Characteristics										
Frequency		Hz	50				60			
Voltage (star)		V	380	400	415	440	415	440	460	480
Rated power class H		kVA	31,5	31,5	31,5	27	32	36	38	38
		kW	25,2	25,2	25,2	21,6	25,6	28,8	30,4	30,4
Rated power class F		kVA	30	30	30	25,5	30	34	36	36
		kW	24	24	24	20,4	24	27,2	28,8	28,8
Regulation with		DSR	±1 % with any power factor and speed variations between -5% +30%							
Insulation class			H							
Execution			Brushless							
Stator winding			12 ends							
Rotor			with damping cage							
Efficiencies class H	4/4	%	86,8	87,2	87,5	84,2	88,3	88,6	88,8	89,2
(see graph. for details)	3/4	%	87,5	87,8	87,9	84,6	89,2	89,4	89,6	89,8
	2/4	%	85,4	85,5	85,5	82,4	87,2	87,3	87,4	87,5
	1/4	%	82,2	82	82	79,8	83,2	83,2	83,2	83
Reactances (f. l.cl. F)	Xd	%	265,9	240	223,0	170,0	270,4	270,6	261,3	240
	Xd'	%	8,31	7,5	6,97	5,3	8,45	8,46	8,17	7,5
	Xd''	%	4,32	3,9	3,62	2,8	4,39	4,40	4,25	3,9
	Xq	%	141,7	127,9	118,8	90,6	144,1	144,2	139,3	127,9
	Xq'	%	141,7	127,9	118,8	90,6	144,1	144,2	139,3	127,9
	Xq''	%	23,9	21,6	20,1	15,3	24,3	24,4	23,5	21,6
	X ₂	%	14,07	12,7	11,80	9,0	14,31	14,32	13,83	12,7
	X ₀	%	4,88	4,4	4,09	3,1	4,96	4,96	4,79	4,4
Short Circuit Ratio	Kcc		0,90	1	1,20	1,30	0,78	0,83	0,90	1,00
Time Constants	Td'	sec.	0,040							
	Td''	sec.	0,013							
	Tdo'	sec.	0,75							
	Tα	sec.	0,057							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load		Amp.	0,3	0,4	0,5	0,60	0,2	0,25	0,3	0,4
Excitation at full load		Amp.	1,4	1,6	1,7	1,80	1,2	1,3	1,4	1,5
Overload (long-term)		%	1 hour in a 6 hours period 110% rated load							
Overload per 20 sec.		%	300							
Stator Winding Resistance (20 °C)		Ω	0,086							
Rotor Winding Resistance (20 °C)		Ω	5,848							
Exciter Resistance (20 °C)		Ω	Rotor : 0,417				Stator : 10,60			
Heat dissipation at f.l.cl.H		W	3832	3699	3600	4053	3392	3706	3834	3681
Telephone Interference			THF < 2%				TIF < 45			
Radio interference			EN61000-6-3, EN61000-6-1. For others standards apply to factory							
Waveform Distors.(THD) at f. load	LL/LN	%	2,8 / 3							
Waveform Distors.(THD) at no load	LL/LN	%	2,7 / 2,9							
Mechanical characteristics										
Protection			IP 23 (other protection on request)							
DE bearing			6309-2RS							
NDE bearing			6207-2RS							
Weight of wound stator assembly		kg	51,9							
Weight of wound rotor assembly		kg	24,1							
Weight of complete generator		kg	141							
Maximun overspeed		rpm	4500							
Unbalanced magnetic pull at f.l.cl.F		kN/mm	3,8							
Cooling air requirement		m³/min	9,7				11			
Inertia Constant (H)		sec.	0,189				0,226			
Noise level at 1m/7m		dB(A)	86 / 74				90,5 / 78			

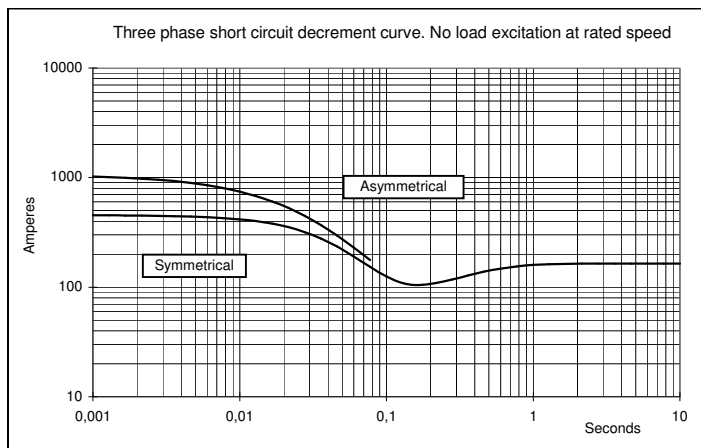
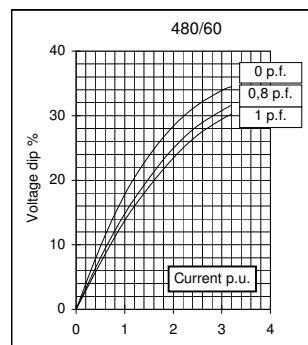
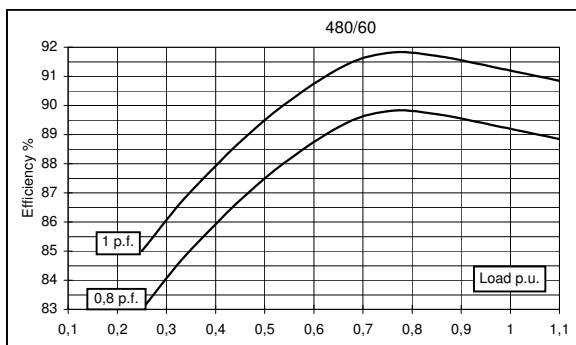
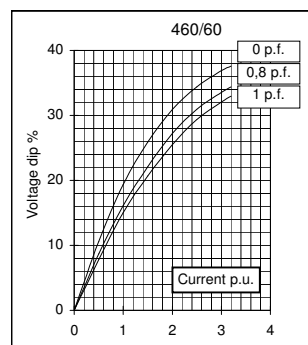
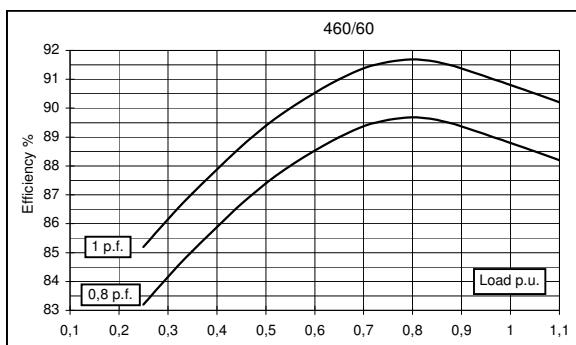
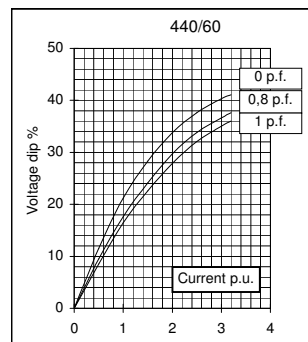
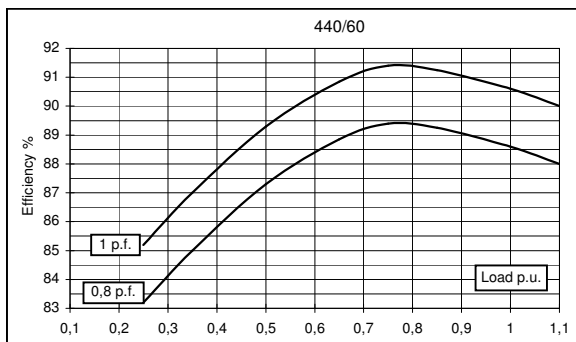
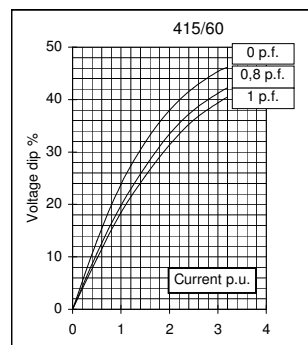
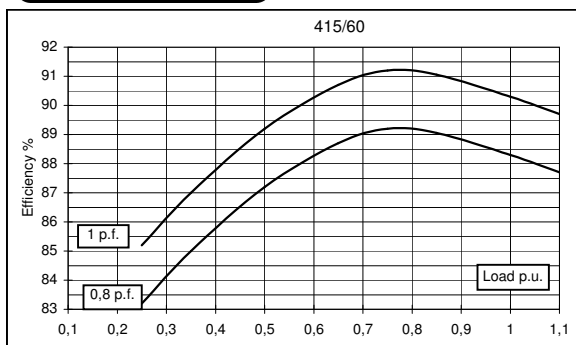
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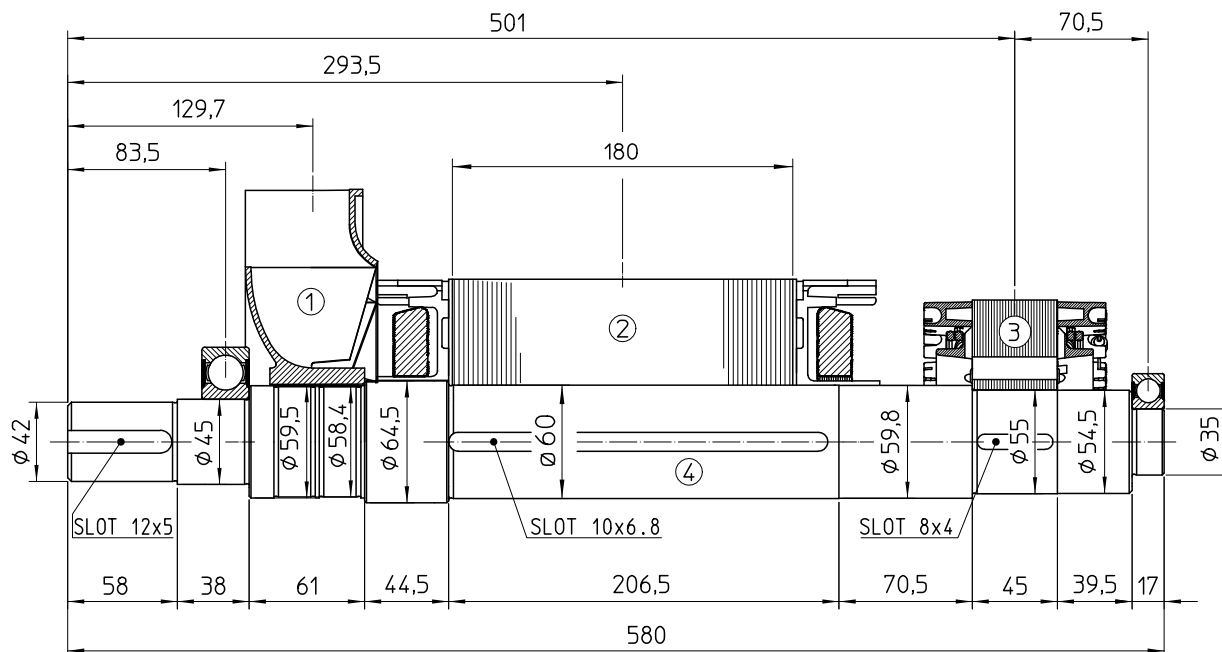
50 Hz



60 Hz

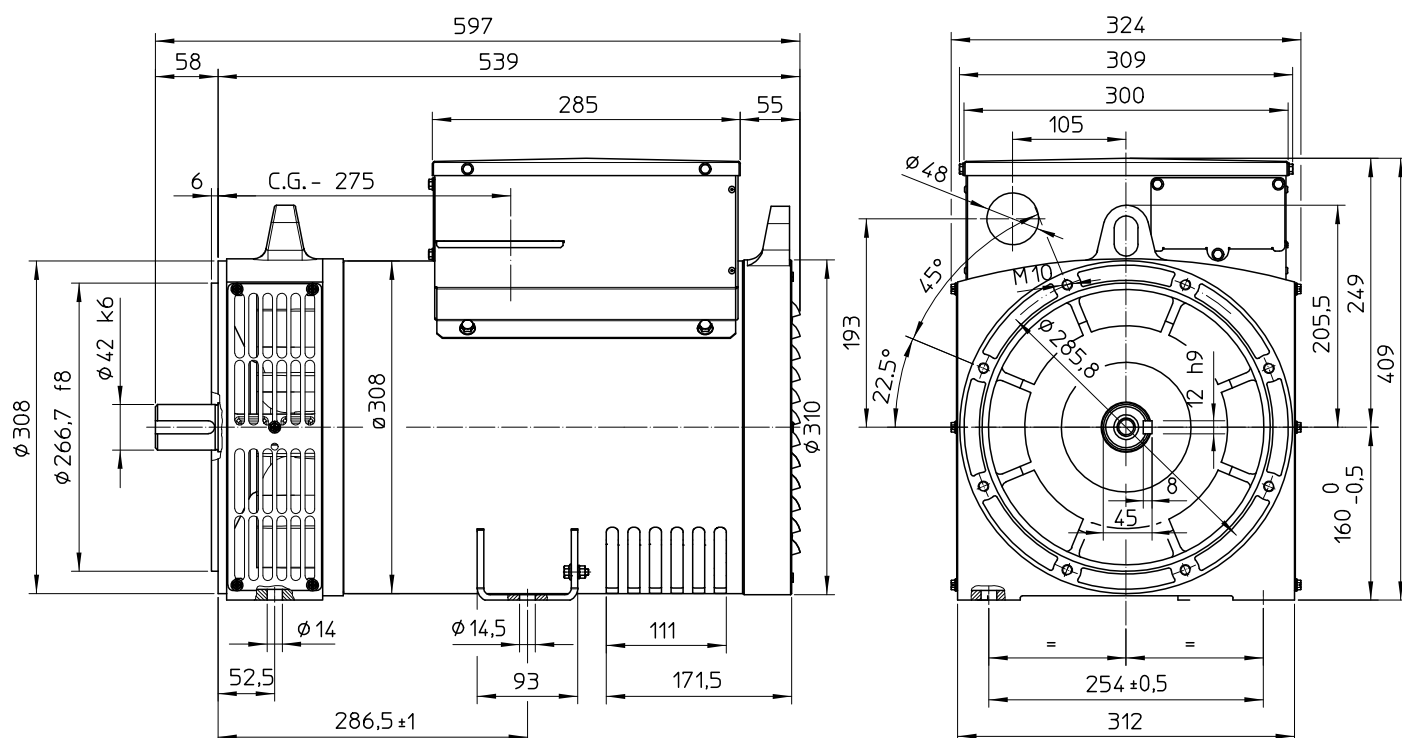


TWO BEARING MOMENTS OF INERTIA



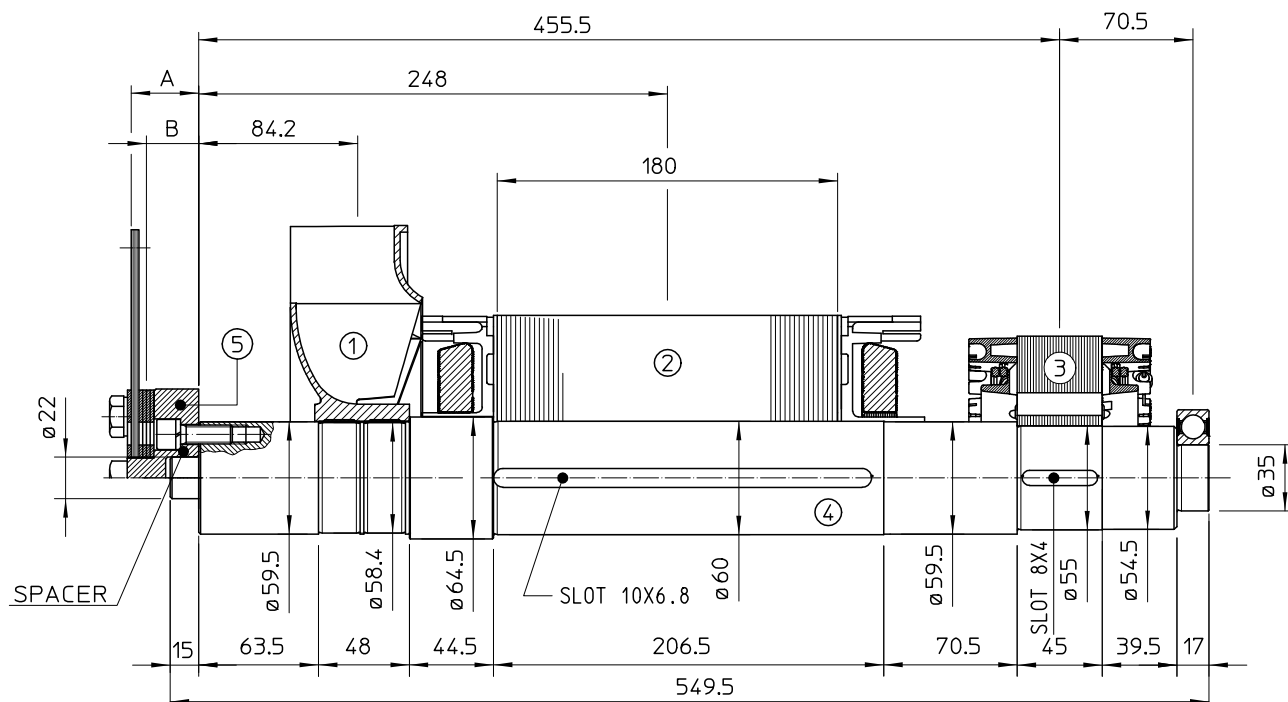
POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	1.2	0.0087
2	MAIN ROTOR	24.1	0.0898
3	EX. ROTOR	5.5	0.0172
4	SHAFT	11	0.0047
TOTAL		41.8	0.1204

TWO BEARING DIMENSIONS



C.G.= GRAVITY CENTER

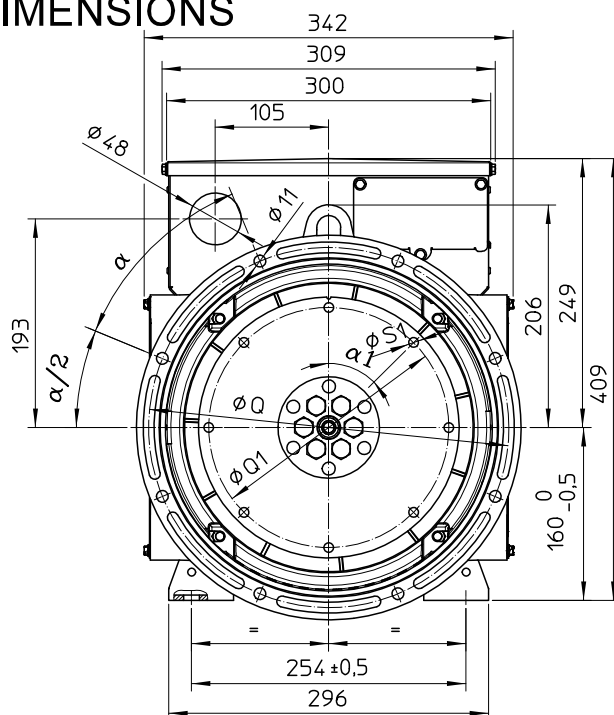
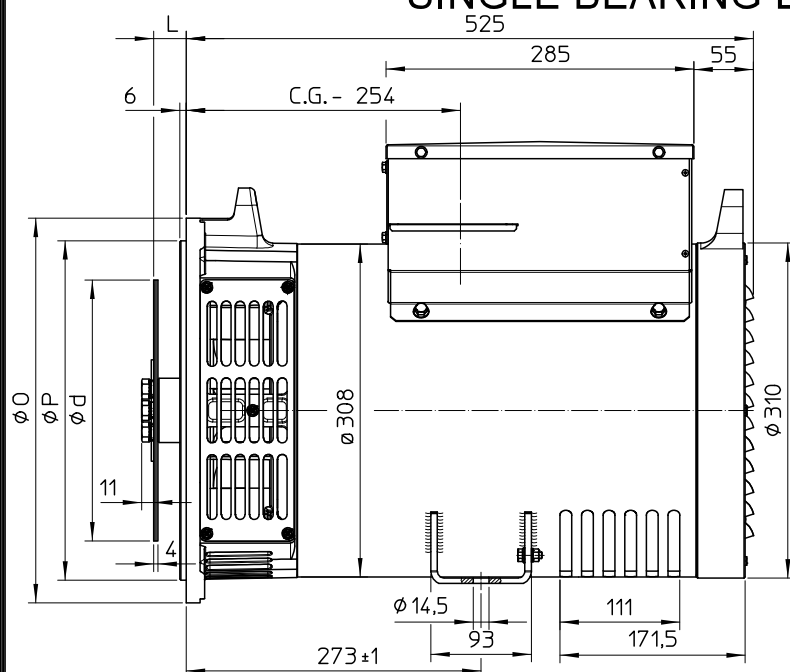
SINGLE BEARING MOMENTS OF INERTIA



POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	1.2	0.0087
2	MAIN ROTOR	24.1	0.0898
3	EX. ROTOR	5.5	0.0172
4	SHAFT	11	0.0047
TOTAL		41.8	0.1204

SAE N°	5 SHAFTS COUPLING FLEX PLATE			
	A	B	WEIGHT kg	J kgm ²
6 1/2	4	2	1.08	0.0065
7 1/2	4	2	1.35	0.0101
8	35.6	28.3	2.84	0.0158
10	27.6	22.9	3.25	0.0303
11 1/2	14	11.2	3.6	0.471

SINGLE BEARING DIMENSIONS



SAE N.	GIUNTI A DISCHI / DISC COUPLING DISQUE DE MONOPALIER / SCHEIBENKUPPLUNG				
	d	L	Q1	S1	α_1
6 1/2	215.9	30.2	200	9	60°
7 1/2	241.3	30.2	222.25	9	45°
8	263.52	62	244.47	11	60°
10	314.32	53.8	295.27	11	45°
11 1/2	352.42	39.6	333.37	11	45°

SAE N.	FLANGIA / FLANGE BRIDE / FLANSCH			
	O	P	Q	α
5	356	314.3	333.4	45°
4	403	362	381	30°
3	451	409.6	428.6	30°
2	490	447.7	466.7	30°

C.G.= GRAVITY CENTER