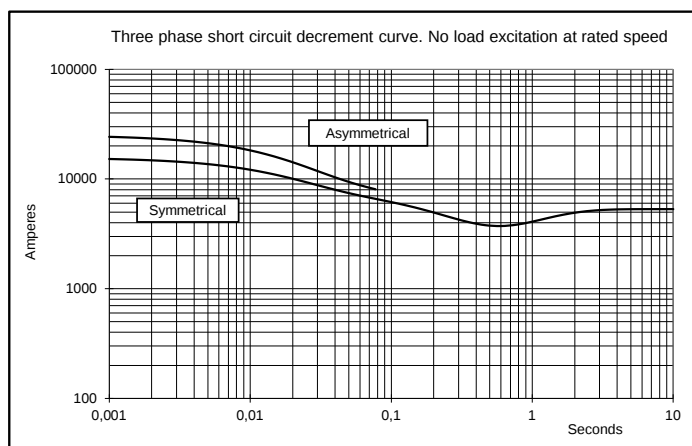
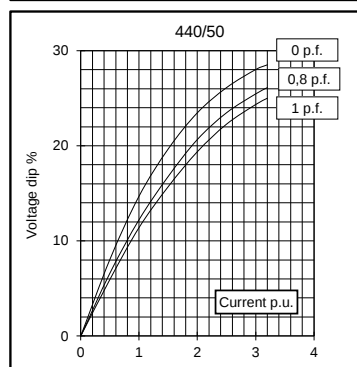
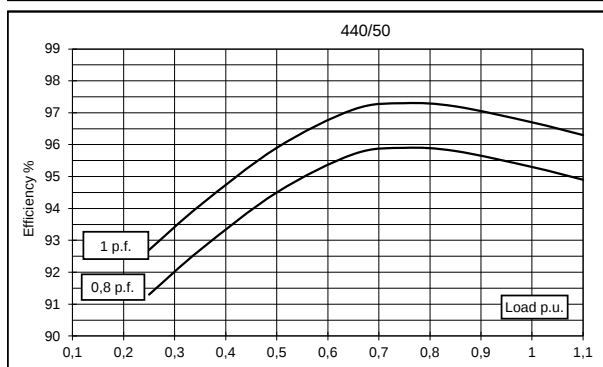
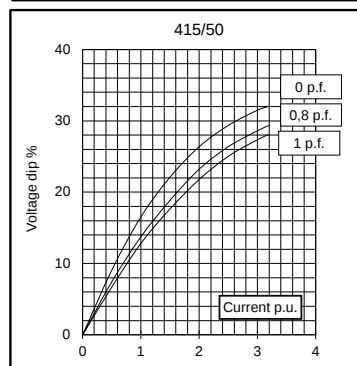
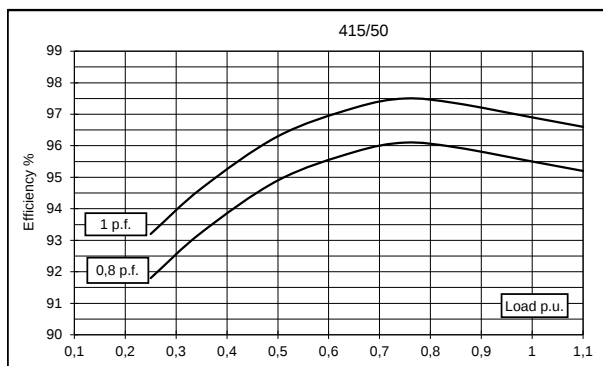
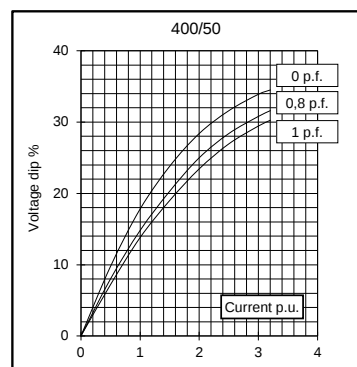
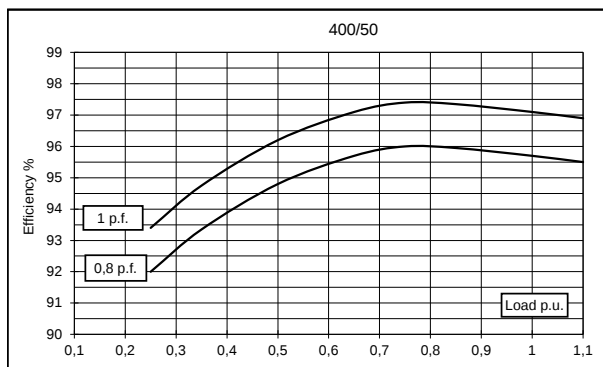
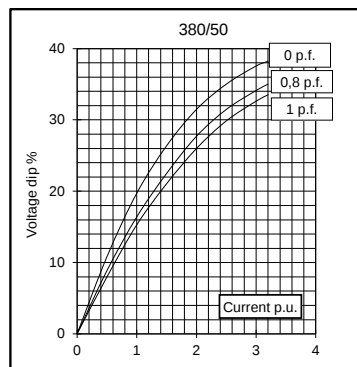
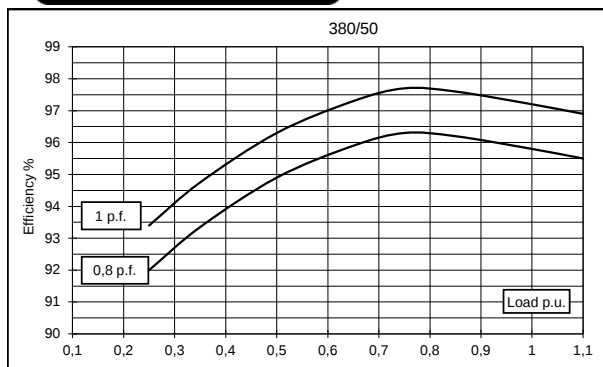


Electrical Characteristics										
Frequency		Hz	50				60			
Voltage (parallel star)		V	380	400	415	440	415	440	460	480
Rated power class H		kVA	1150	1150	1050	900	1200	1300	1400	1400
		kW	920	920	840	720	910	1040	1120	1120
Rated power class F		kVA	1050	1050	960	820	1100	1200	1300	1300
		kW	840	840	768	656	880	960	1040	1040
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	%	95,8	95,7	95,5	95,3	95,5	96	96,2	96
(see graph. for details)	3/4	%	96,3	96	96,1	95,9	95,8	96,1	96,3	96,1
	2/4	%	94,9	94,8	94,9	94,5	94,9	95	95,2	95,1
	1/4	%	92	92	91,8	91,3	93	93	93	93
Reactances (f. l.cl. F)	Xd	%	405,5	366	310,9	236,2	420,0	407,6	404,0	371
	Xd'	%	22,7	20,5	17,4	13,2	23,5	22,8	22,65	20,8
	Xd"	%	11,7	10,6	9,0	6,8	12,1	11,8	12	10,7
	Xq	%	172	155	131,7	100,0	177,7	172,5	170,9	157
	Xq'	%	172	155	131,7	100,0	177,7	172,5	170,9	157
	Xq"	%	22,7	20,5	17,4	13,2	23,5	22,8	22,6	20,8
	X ₂	%	17,2	15,5	13,2	10,0	18	17,2	17,09	15,7
	X ₀	%	4,1	3,7	3,1	2,4	4,2	4,1	4,03	3,7
Short Circuit Ratio	Kcc		0,30	0,35	0,40	0,50	0,21	0,25	0,30	0,35
Time Constants	Td'	sec.	0,245							
	Td"	sec.	0,0176							
	Tdo'	sec.	8,10							
	Tα	sec.	0,0235							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load		Amp.	0,4	0,5	0,6	0,8	0,3	0,4	0,5	0,5
Excitation at full load		Amp.	2,7	3	3,1	3,3	2,4	2,6	2,7	3
Overload (long-term)		%	1 hour in a 6 hours period 110% rated load							
Overload per 20 sec.		%	300							
Stator Winding Resistance (20°C)		Ω	0,0078							
Rotor Winding Resistance (20°C)		Ω	2,500							
Exciter Resistance (20 °C)		Ω	Rotor : 0,130				Stator : 10,63			
Heat dissipation at f.l.cl.H		W	40334	41338	39581	35509	42880	43333	44241	46667
Telephone Interference			THF < 2%				TIF < 40			
Radio interference			EN61000-6-3, EN61000-6-1. For others standards apply to factory							
Waveform Distors.(THD) at f. load	LL/LN	%	1,5 / 1,7							
Waveform Distors.(THD) at no load	LL/LN	%	2,1 / 2,1							
Mechanical characteristics										
Protection			IP 23 (other protection on request)							
DE bearing			6324							
NDE bearing			6322							
Weight of wound stator assembly	kg		861							
Weight of wound rotor assembly	kg		642							
Weight of complete generator	kg		2395							
Maximun overspeed	rpm		2250							
Unbalanced magnetic pull at f.l.cl.F	kN/mm		5							
Cooling air requirement	m³/min		90				108			
Inertia Constant (H)	sec.		0,247				0,297			
Noise level at 1m/7m	dB(A)		95 / 84				99 / 89			

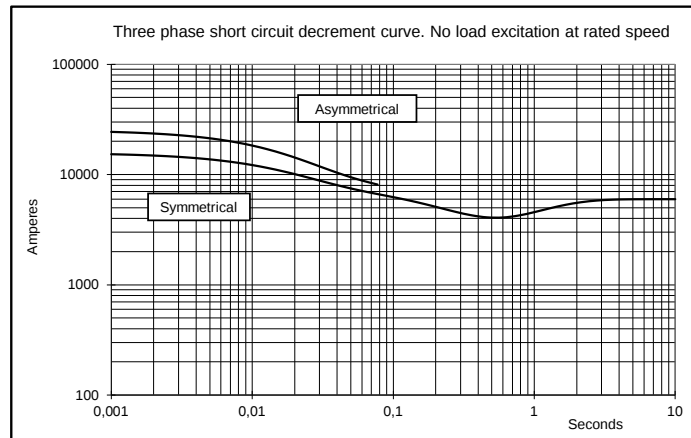
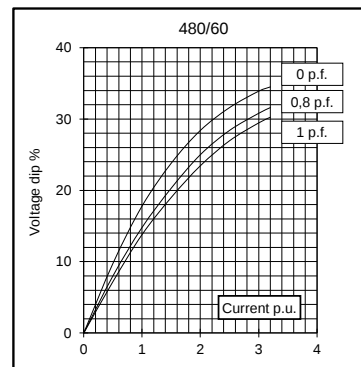
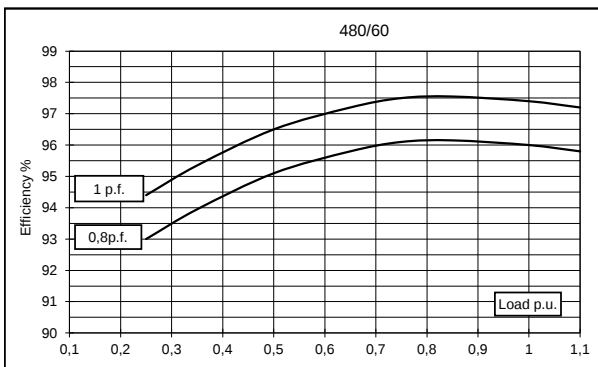
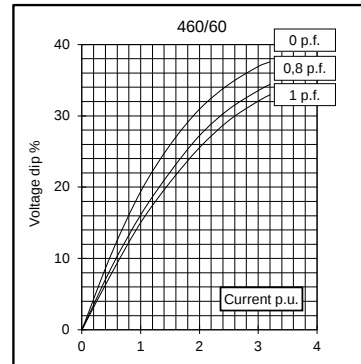
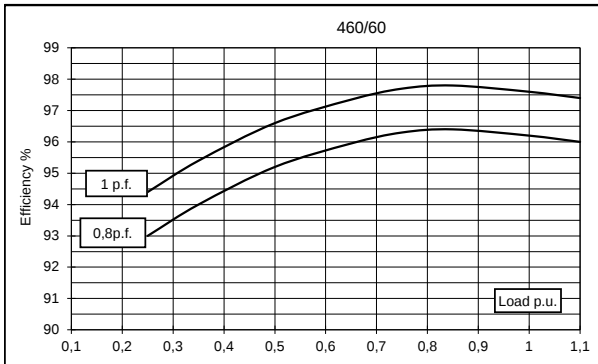
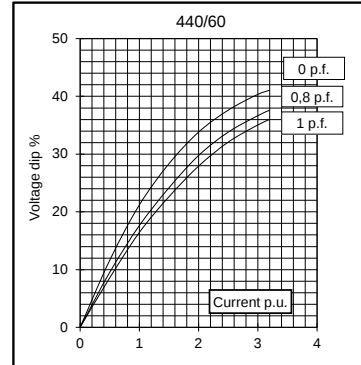
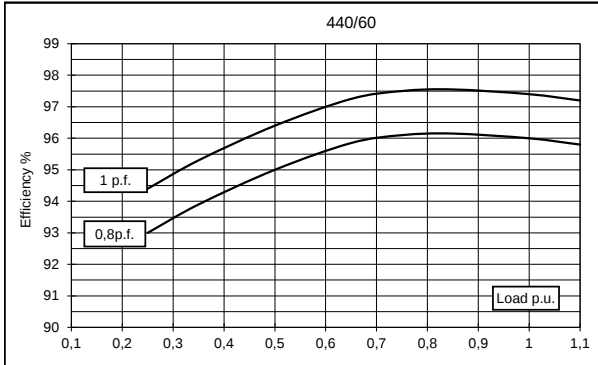
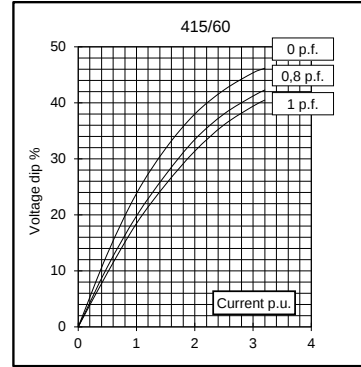
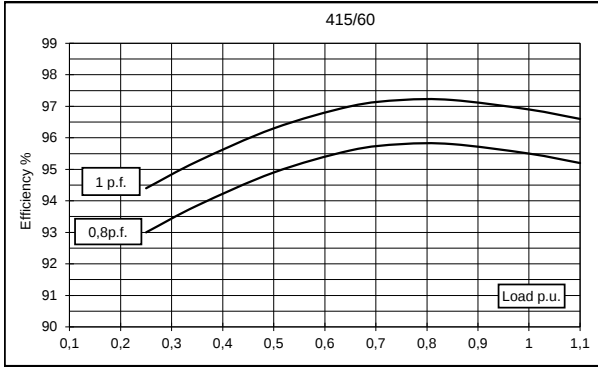
All technical data are to be considered as a reference and they can be modified without any notice.

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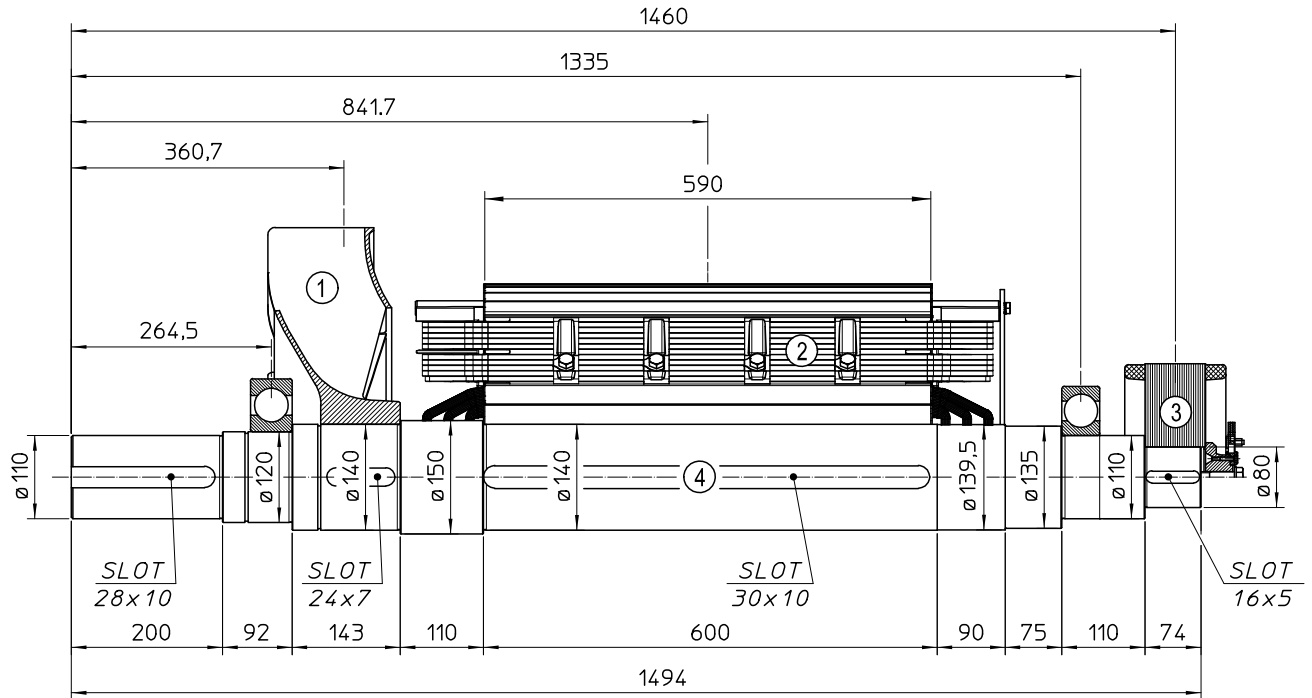
50 Hz



60 Hz

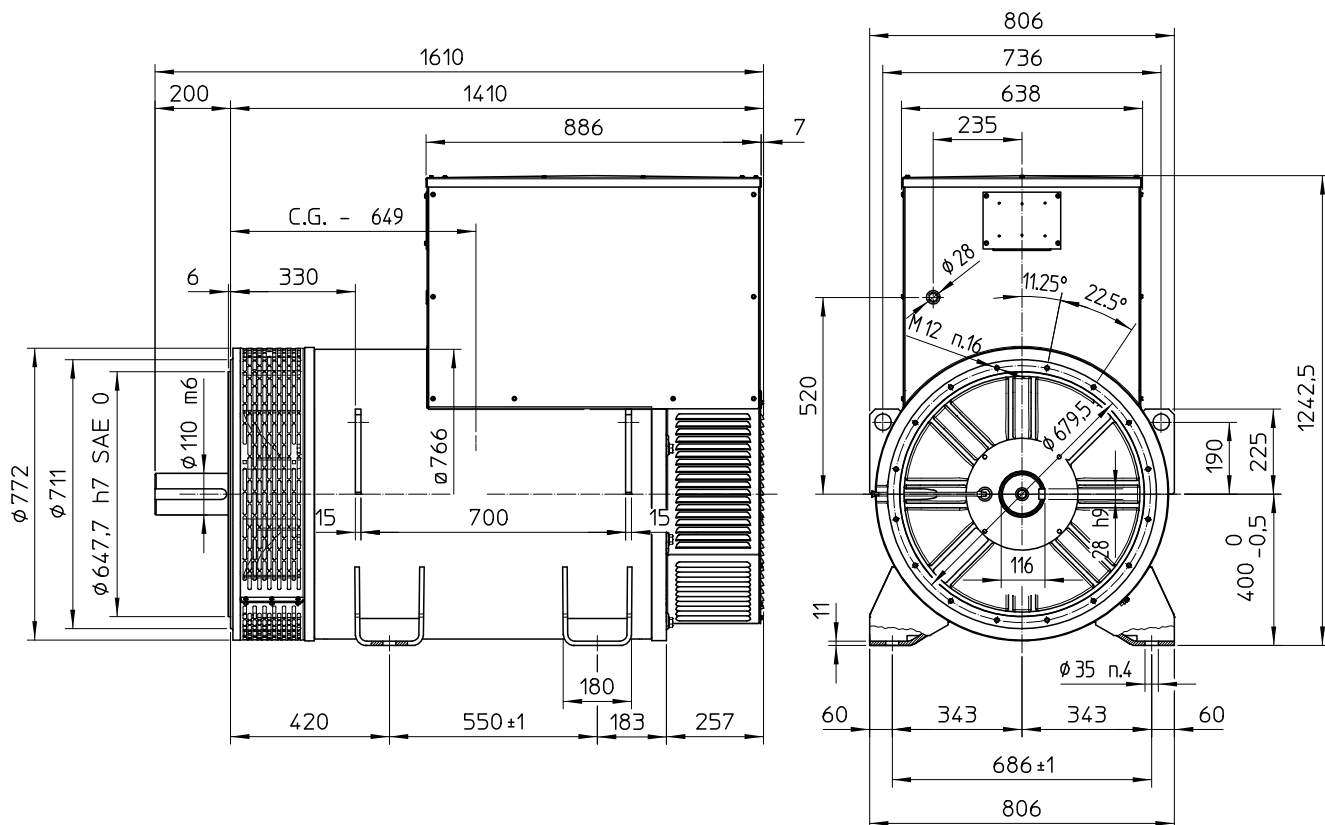


TWO BEARING MOMENTS OF INERTIA



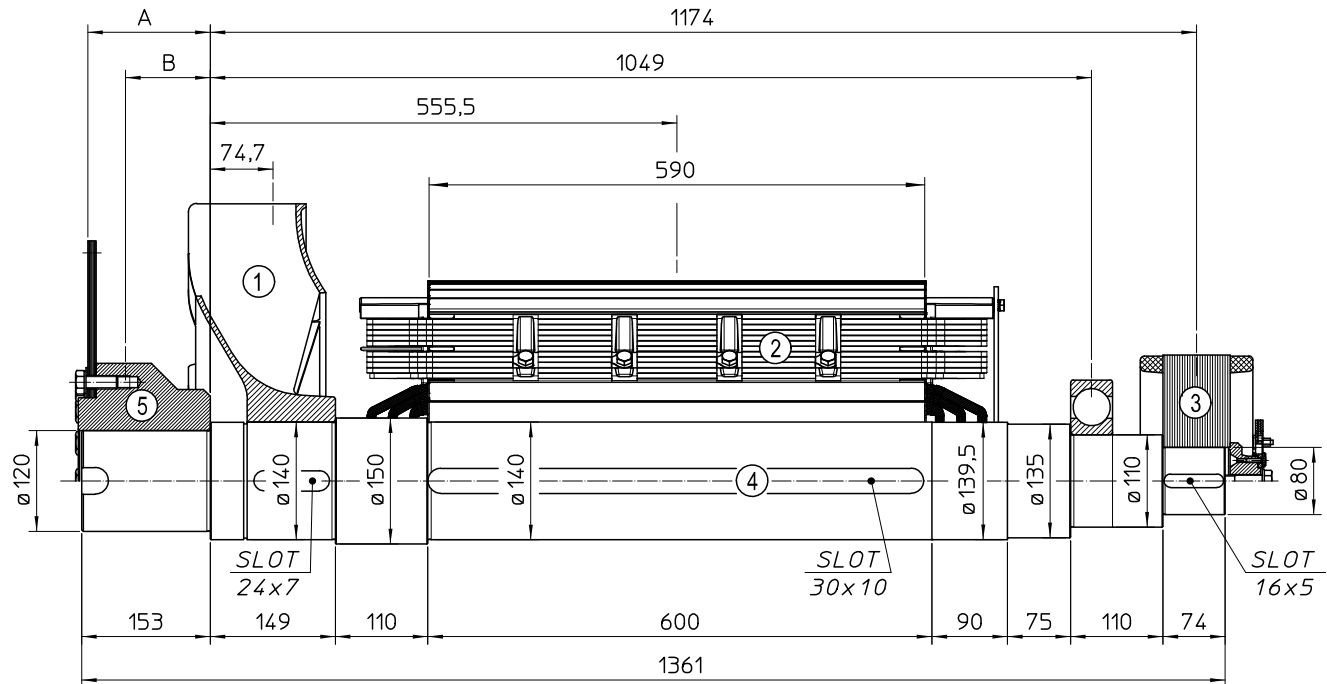
POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	26.2	1.0289
2	MAIN ROTOR	631.1	18.1107
3	EX. ROTOR	40.1	0.4889
4	SHAFT	154.9	0.3498
TOTAL		852.3	19.9783

TWO BEARING DIMENSIONS



C.G.= GRAVITY CENTER

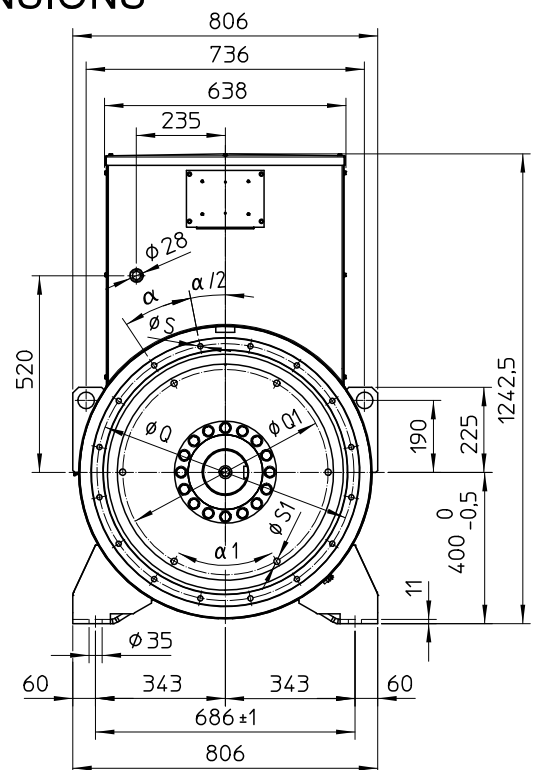
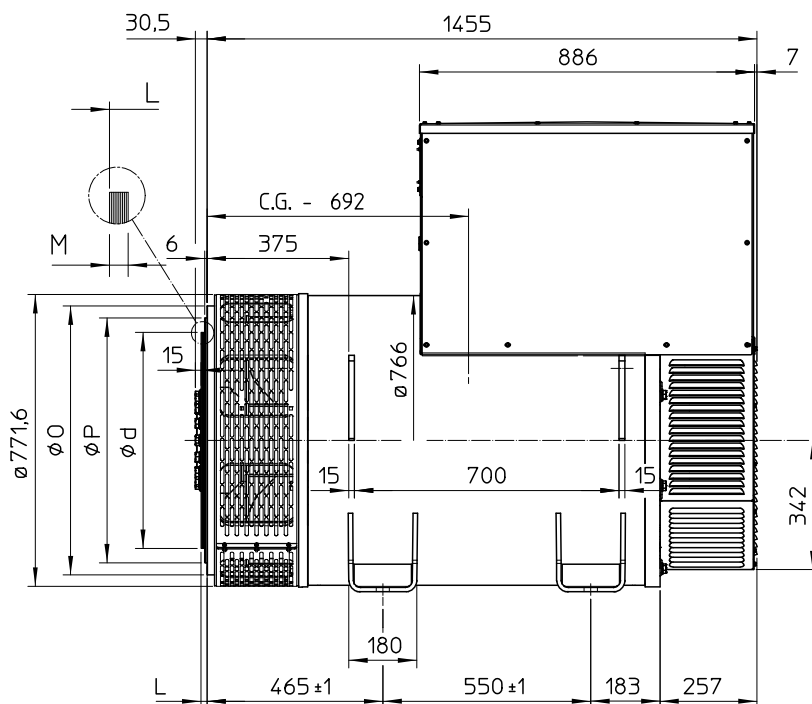
SINGLE BEARING MOMENTS OF INERTIA



POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	26.2	1.0289
2	MAIN ROTOR	631.1	18.1107
3	EX. ROTOR	40.1	0.4889
4	SHAFT	146.5	0.3397
TOTAL		843.9	19.9682

POS.	COMPONENT	SAE N°	A	B	WEIGHT (kg)	J (kgm ²)
5	SHAFTS COUPLING FLEX PLATE	14	155.7	99.5	56.5	0.8261
		18	145.7	100.7	60.9	1.2458
		21	130.0	98.5	69.0	2.2332

SINGLE BEARING DIMENSIONS



SAE N.	FLANGIA/FLANGE BRIDE/FLANSCH				
	O	P	Q	S	α
1	711	511.2	530.2	12	30°
0	711	647.7	679.5	14	22.5°
00	883	787.4	850.9	14	22.5°

SAE N.	GIUNTI A DISCHI / DISC COUPLING DISCQUE DE MONOPALIER / SCHEIBENKUPPLUNG					
	d	L	M	Q1	S1	α1
14	466.72	25.4	10	438.15	13.5	45°
18	571.5	15.7	10	542.92	16.5	60°
21	673.1	0	12	641.35	16.5	30°

C.G.= GRAVITY CENTER