

ژنراتور : Meccalte

موتور دیزل : Benz OM364

آماده به کار (Standby) ^۲		کارکرد مداوم (Contiunous) ^۱		دیزل ژنراتور
KVA ^۴	HP ^۳	KVA ^۴	HP ^۳	
83	90	70	76	



۱ - قدرت مداوم طبق دین A 6270

۲ - قدرت استندبای فقط برای ۳۰۰ ساعت در سال قابل استفاده است.

۳ - برای مورد ۱ فقط ۱۰٪ افزایش قدرت به مدت یک ساعت در هر ۱۲ ساعت مجاز است.

۴ - قدرت ارائه شده در جدول در شرایط زیر محاسبه گردیده است:

- درجه هوای ورودی ۲۰ درجه سانتی گراد

- رطوبت نسبی ۶۰٪

- ارتفاع محلی ۳۰۰ متر بالای سطح دریا

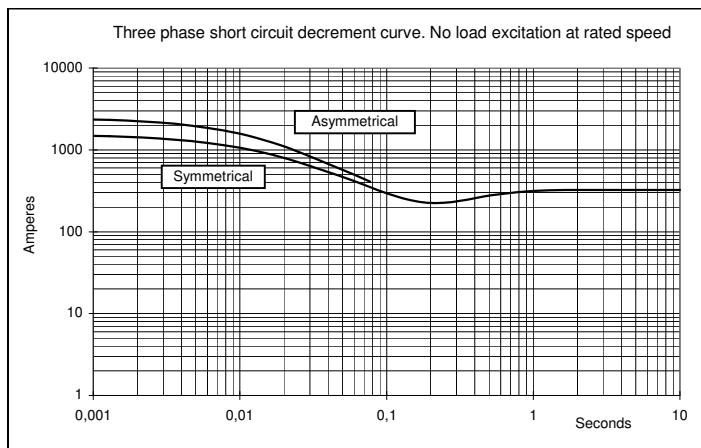
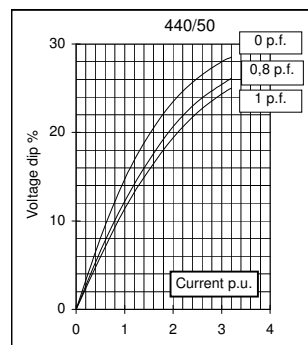
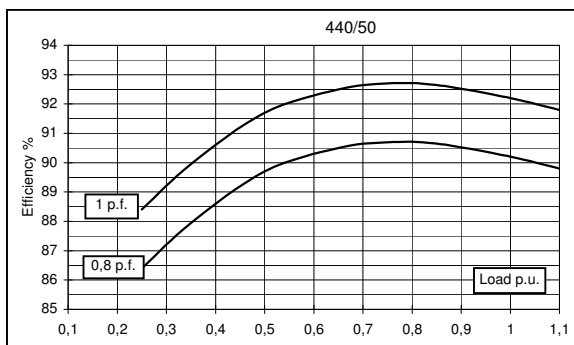
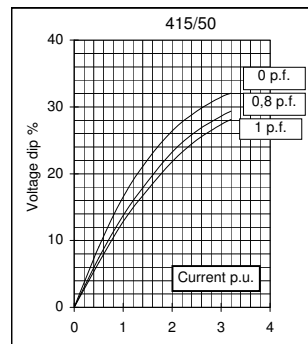
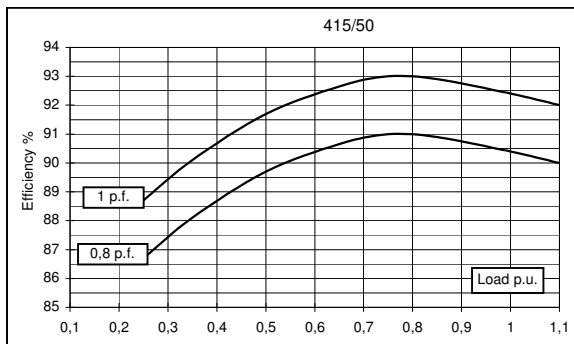
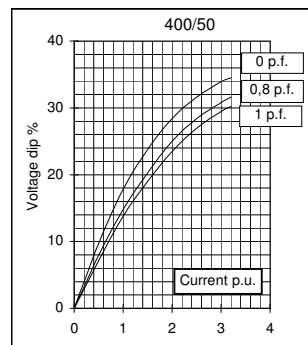
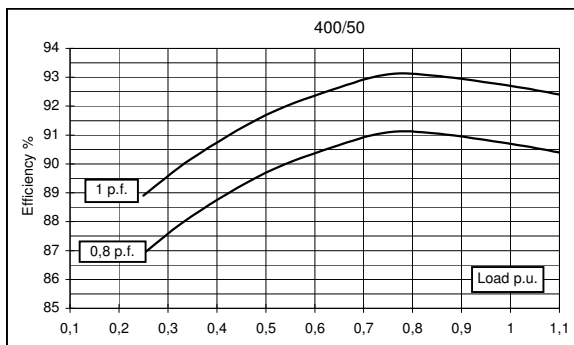
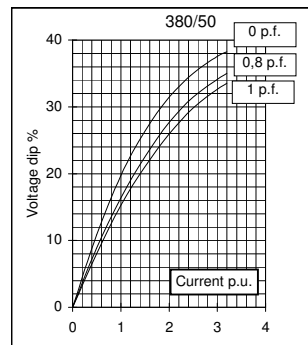
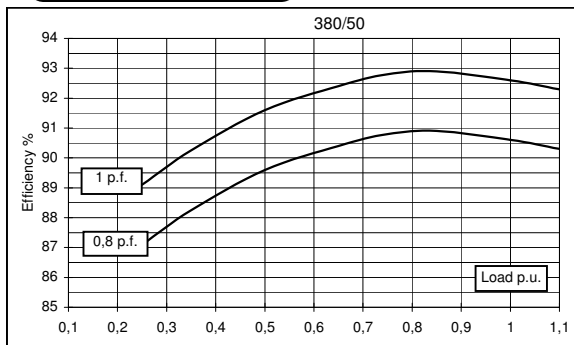
- فاکتور قدرت ۰,۸ در نظر گرفته شده است.

Electrical Characteristics										
Frequency		Hz	50				60			
Voltage (series star)		V	380	400	415	440	415	440	460	480
Rated power class H		kVA	75	75	75	70	80	86	90	90
		kW	60	60	60	56	64	69	72	72
Rated power class F		kVA	67	67	67	62	73	80	83	83
		kW	53,6	53,6	53,6	49,6	58,4	64	66,4	66,4
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	%	90,6	90,7	90,4	90,2	92,5	93	93,1	93,2
(see graph. for details)	3/4	%	90,8	91,1	91	90,7	92,8	93	93,2	93,4
	2/4	%	89,6	89,7	89,7	89,7	90,8	90,9	91	91,1
	1/4	%	87,1	86,9	86,7	86,4	88,1	88,1	88,1	87,9
Reactances (f. l.cl. F)	Xd	%	338,3	305,4	283,7	235,5	363,1	347,2	332,5	305,4
	Xd'	%	14,84	13,4	12,44	10,33	15,93	15,23	14,58	13,4
	Xd''	%	7,72	7	6,47	5,37	8,28	7,92	7,58	7
	Xq	%	130,6	117,9	109,5	90,9	140,1	134,0	128,3	117,9
	Xq'	%	130,6	117,9	109,5	90,9	140,1	134,0	128,3	117,9
	Xq''	%	38,0	34,3	31,9	26,4	40,8	39,0	37,3	34,3
	X ₂	%	25,88	23,4	21,70	18,02	27,77	26,56	25,43	23,4
	X ₀	%	3,68	3,3	3,09	2,56	3,95	3,78	3,62	3,3
Short Circuit Ratio	Kcc		0,48	0,57	0,64	1,19	0,36	0,40	0,48	0,57
Time Constants	Td'	sec.	0,065							
	Td''	sec.	0,0135							
	Tdo'	sec.	1,30							
	Tα	sec.	0,027							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load		Amp.	0,5	0,6	0,7	1,2	0,25	0,3	0,4	0,5
Excitation at full load		Amp.	2,1	2,2	2,4	2,8	1,8	1,7	1,9	2,1
Overload (long-term)		%	1 hour in a 6 hours period 110% rated load							
Overload per 20 sec.		%	300							
Stator Winding Resistance (20 °C)		Ω	0,035							
Rotor Winding Resistance (20 °C)		Ω	3,171							
Exciter Resistance (20 °C)		Ω	Rotor : 0,442				Stator : 11,35			
Heat dissipation at f.l.cl.H		W	6225	6152	6372	6084	5189	5178	5336	5253
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	%	3,9 / 3,7							
Waveform Distors.(THD) at no load	LL/LN	%	3,3 / 3,1							
Mechanical characteristics										
Protection			IP 21 (other protection on request)							
DE bearing			6312-2RS							
NDE bearing			6309-2RS							
Weight of wound stator assembly		kg	110							
Weight of wound rotor assembly		kg	74							
Weight of complete generator		kg	298							
Maximun overspeed		rpm	2250							
Unbalanced magnetic pull at f.l.cl.F		kN/mm	5,2							
Cooling air requirement		m³/min	11,8				14,5			
Inertia Constant (H)		sec.	0,094				0,113			
Noise level at 1m/7m		dB(A)	75 / 60				79 / 64			

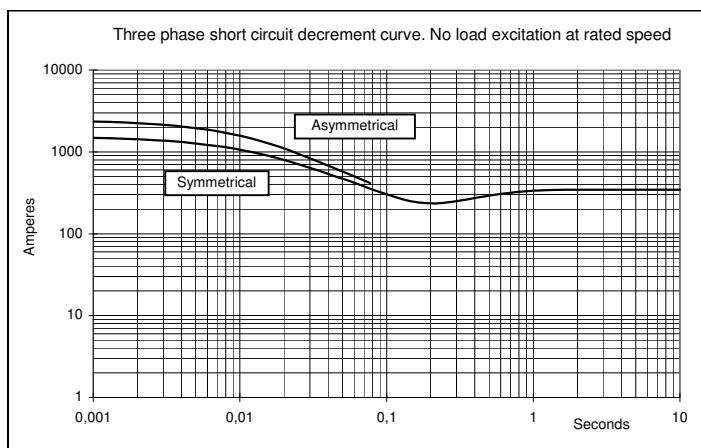
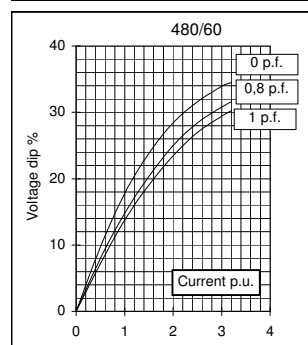
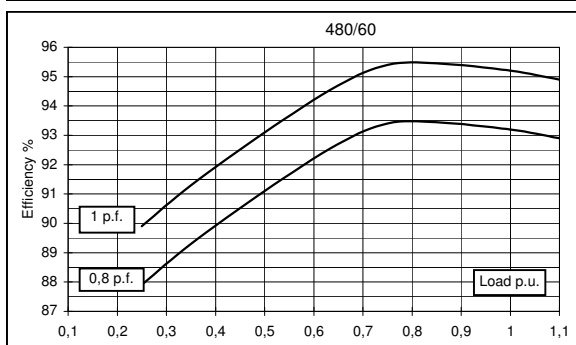
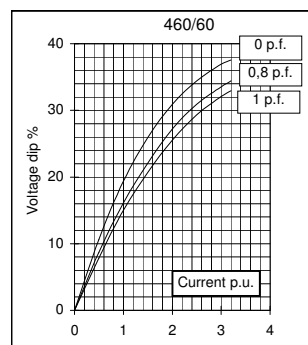
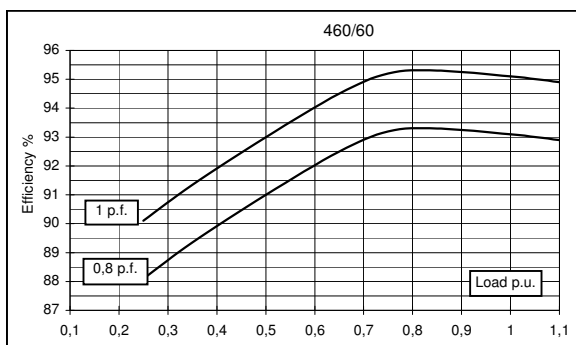
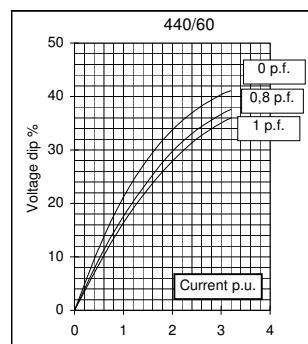
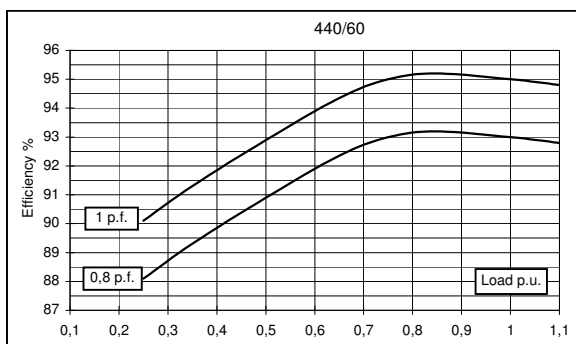
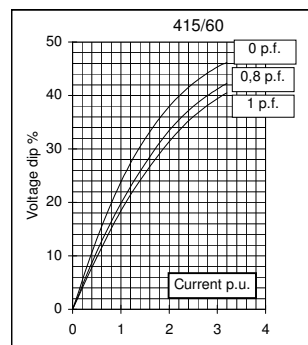
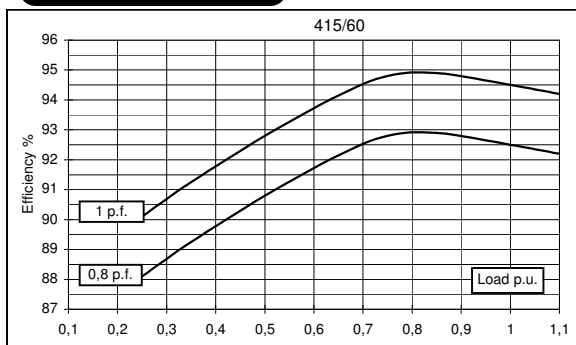
All technical data are to be considered as a reference and they can be modified without any notice.

This document is a propriety of Mecc Alte S.p.a..All rights reserved.

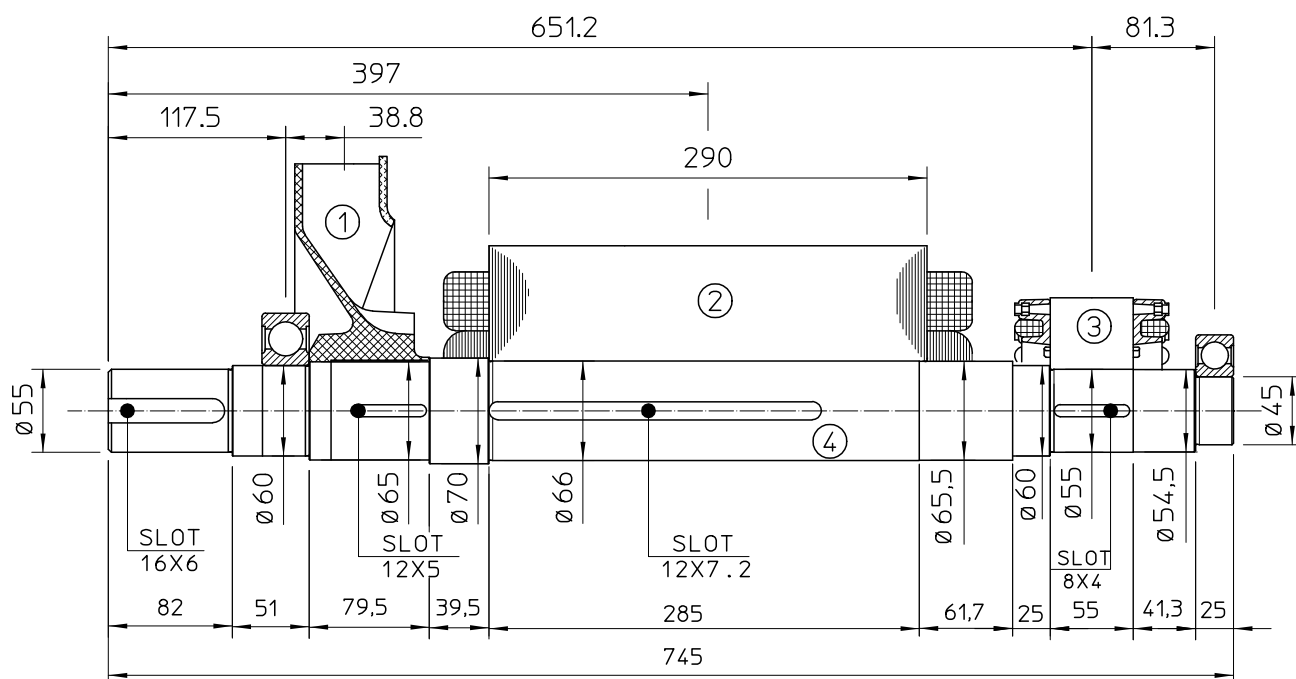
50 Hz



60 Hz

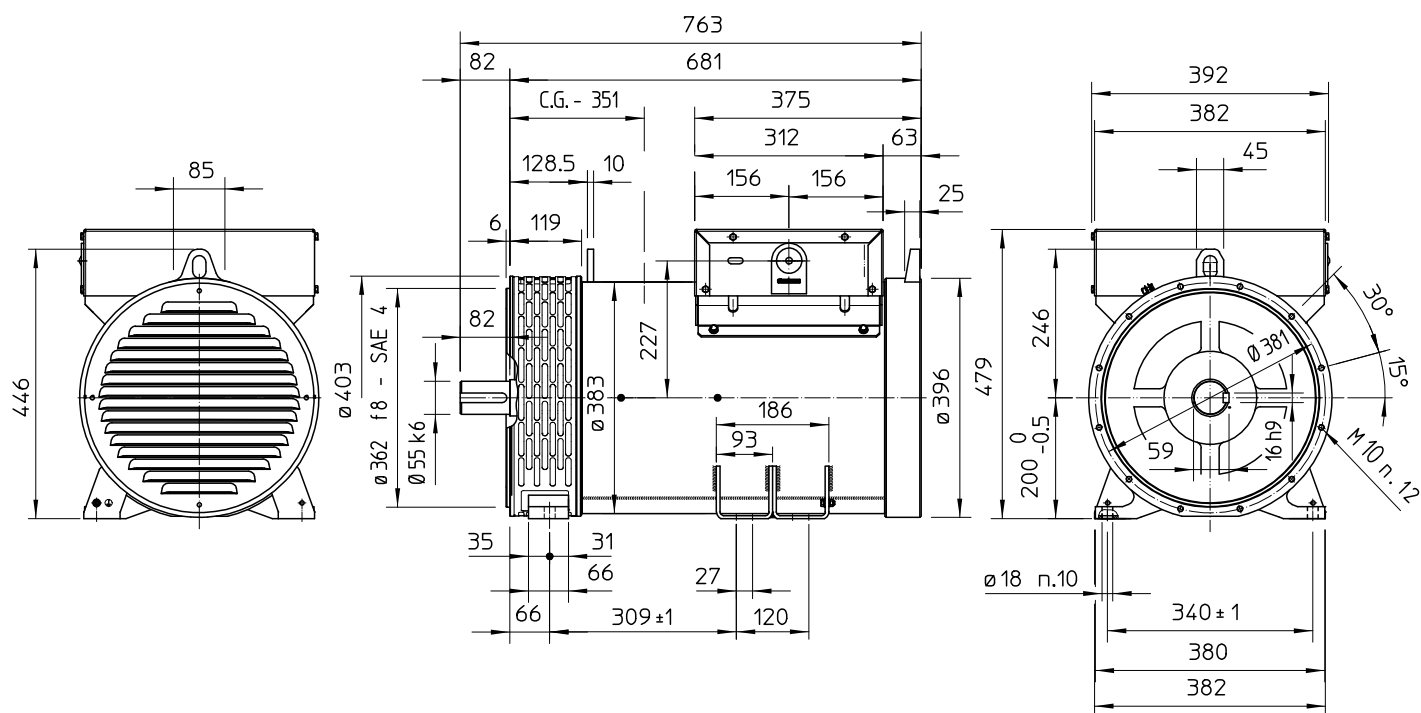


TWO BEARING MOMENTS OF INERTIA



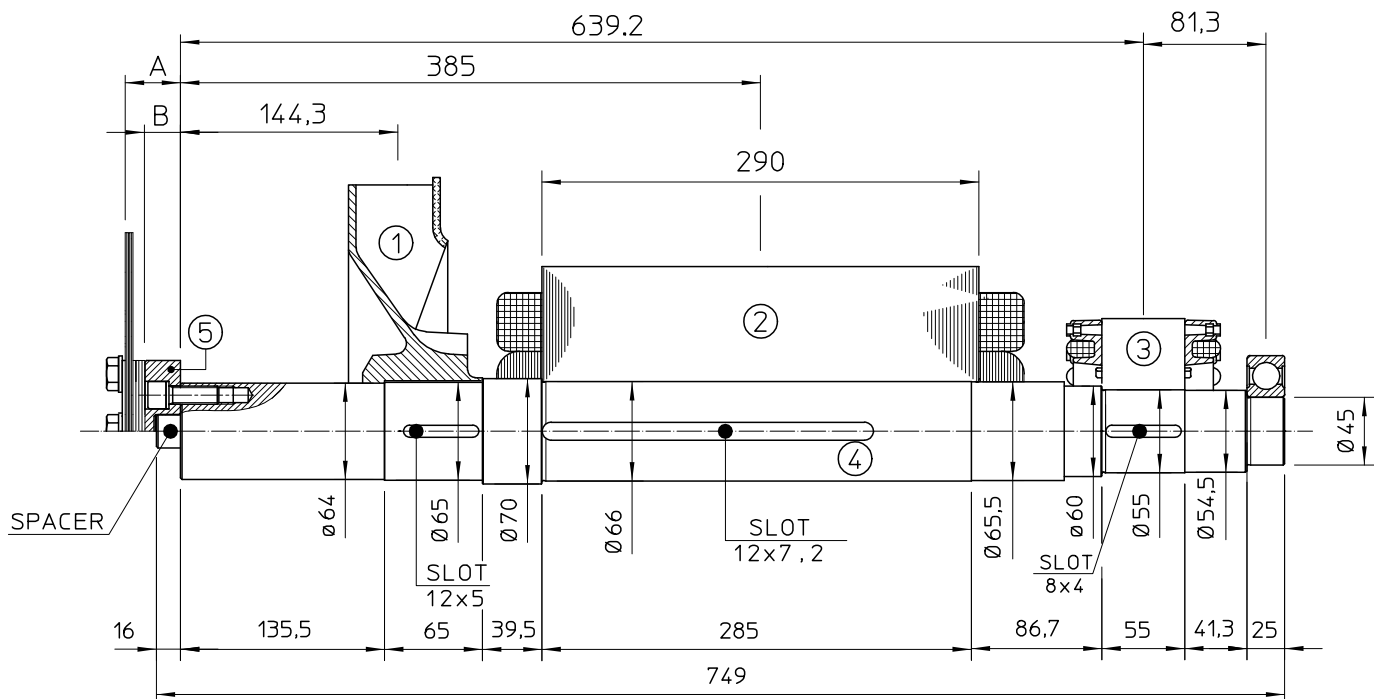
POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	2.3	0.0224
2	MAIN ROTOR	74	0.5254
3	EX. ROTOR	7	0.016
4	SHAFT	17.3	0.0067
TOTAL		100.6	0.5705

TWO BEARING DIMENSIONS



C.G.= GRAVITY CENTER

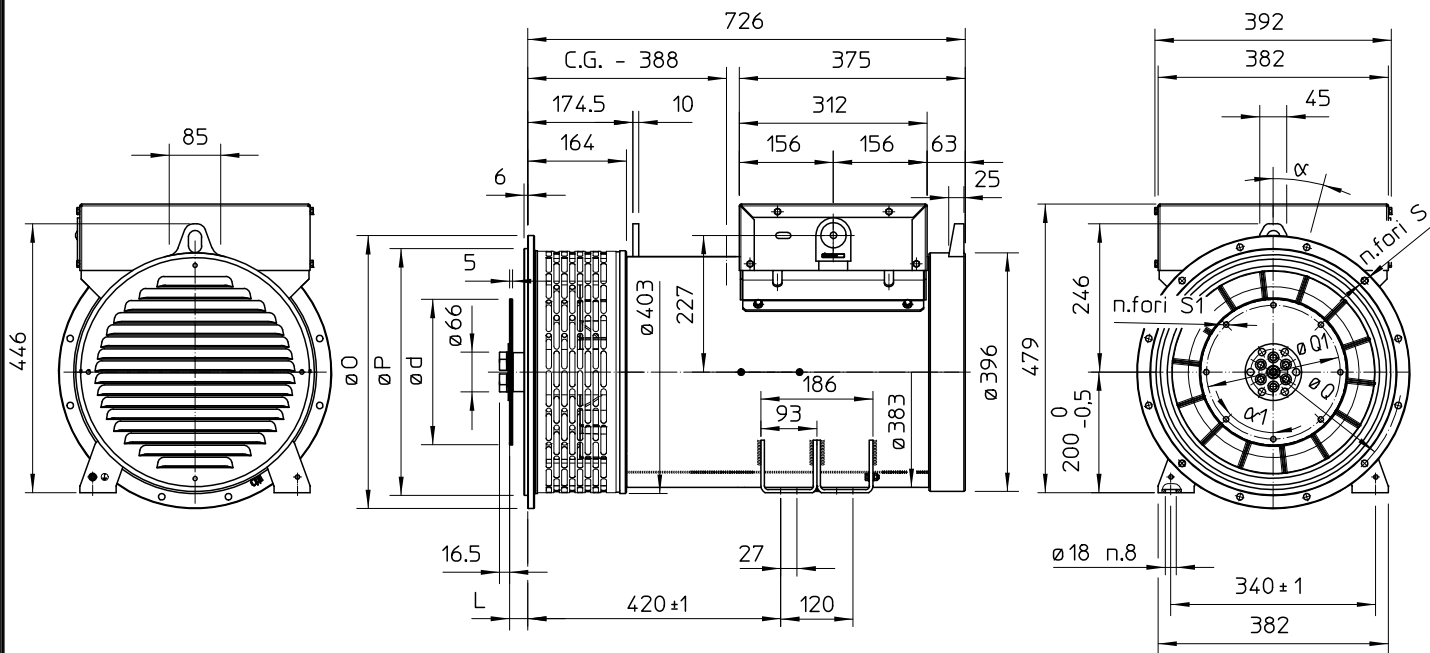
SINGLE BEARING MOMENTS OF INERTIA



POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	2.3	0.0224
2	MAIN ROTOR	74	0.5254
3	EX. ROTOR	7	0.016
4	SHAFT	17.6	0.0090
TOTAL		100.9	0.5728

SAE N°	5	SAFTS COUPLING FLEX PLATE	WEIGHT kg	J kgm ²
6.5	5	2.5	1.74	0.0084
7.5	5	2.5	2.1	0.013
8	36.6	28.1	3.9	0.02
10	28.6	21.6	4.47	0.038
11.5	15	11.5	4.51	0.059

SINGLE BEARING DIMENSIONS



SAE N.	O	P	Q	S	N. FORI HOLES N°	α
5	356	314.3	333.4	11	8	45
4	403	362	381	11	12	30
3	451	409.6	428.6	11	12	30
2	490	447.7	466.7	11	12	30
1	552	511.2	530.2	11	12	30

SAE N.	d	L	Q1	S1	N. FORI HOLES N°	α ₁
6 1/2	215.9	30.2	200	9	6	60
7 1/2	241.3	30.2	222.25	9	8	45
8	263.52	62	244.47	11	6	60
10	314.32	53.8	295.27	11	8	45
11 1/2	352.42	39.6	333.37	11	8	45

C.G.= GRAVITY CENTER