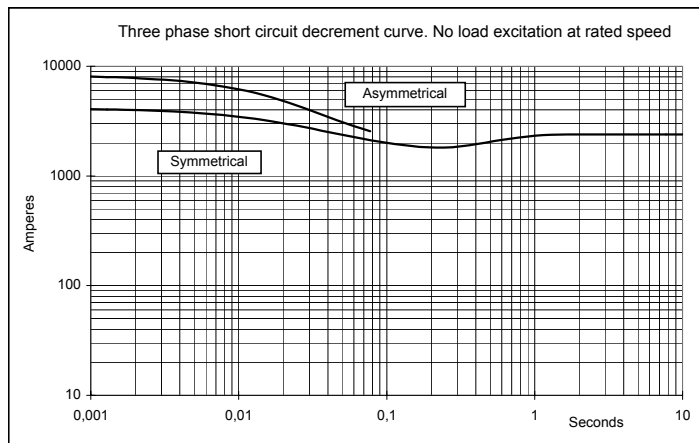
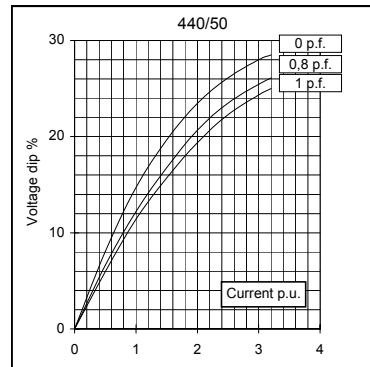
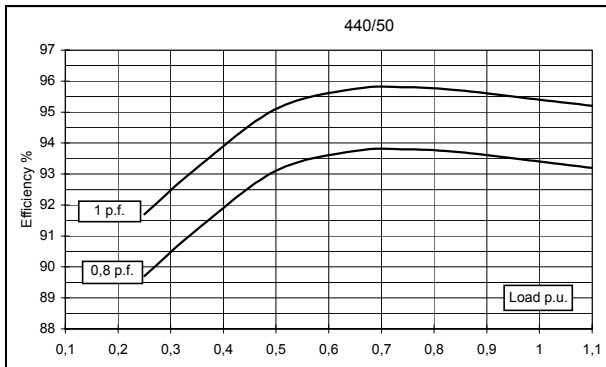
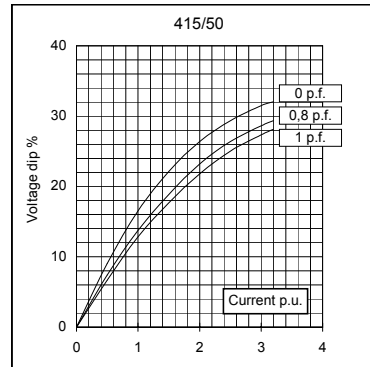
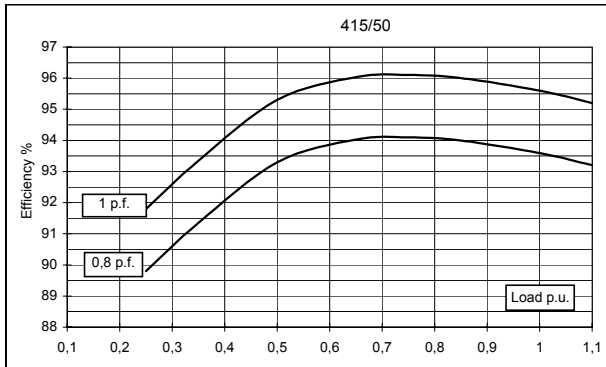
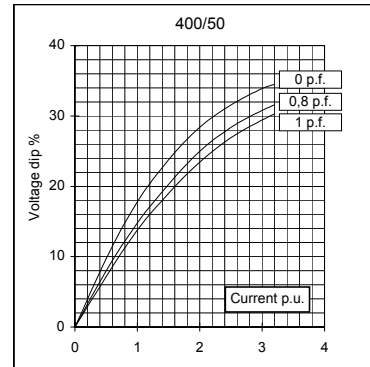
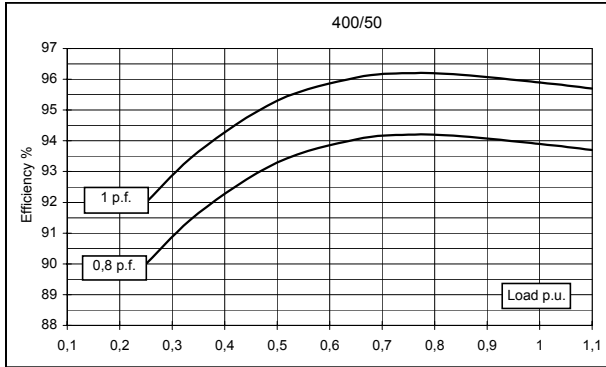
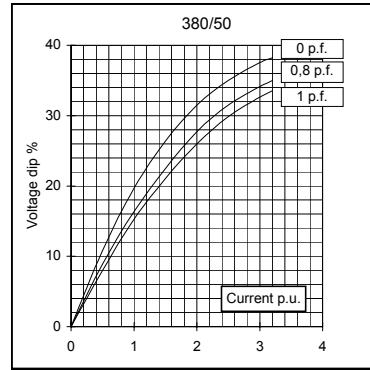
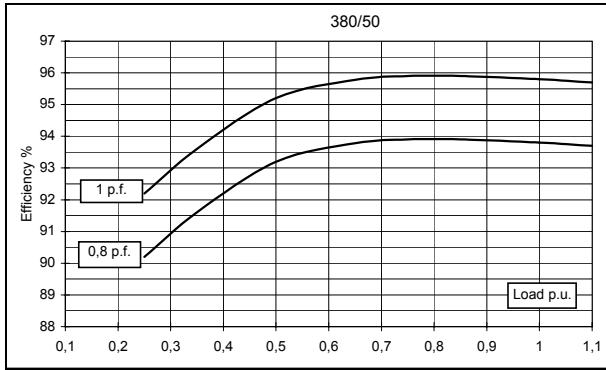


Electrical Characteristics										
Frequency	Hz	50				60				
Voltage (parallel star)	V	380	400	415	440	415	440	460	480	
Rated power class H	kVA	500	500	500	460	540	580	600	600	
	kW	400	400	400	368	432	464	480	480	
Rated power class F	kVA	450	450	450	414	484	520	540	540	
	kW	360	360	360	331	387	416	432	432	
Regulation with	DSR	±1% with any power factor and speed variations between -5% +30%								
Insulation class		H								
Execution		Brushless								
Stator winding		12 ends (nameplate data : 800V-50Hz Series Star, 960V-60Hz Series Star)								
Rotor		with damping cage								
Efficiencies class H	4/4	%	93,8	93,9	93,6	93,4	94,5	95	95,1	95,2
(see graph. for details)	3/4	%	93,9	94,2	94,1	93,8	95	95,2	95,3	95,6
	2/4	%	93,2	93,3	93,3	93,1	94,5	94,6	94,7	94,8
	1/4	%	90,2	90	89,8	89,7	91	91,1	91,1	91
Reactances (f. l.c.l. F)										
	Xd	%	291,3	262,9	244,2	199,9	316,5	302,4	286,3	262,9
	Xd'	%	30,6	27,6	25,6	21,0	33,2	31,8	30,1	27,6
	Xd''	%	20,3	18,3	17,0	13,9	22,0	21,1	19,9	18,3
	Xq	%	179,5	162	150,5	123,2	195,0	186,4	176,4	162
	Xq'	%	179,5	162	150,5	123,2	195,0	186,4	176,4	162
	Xq''	%	25,9	23,4	21,7	17,8	28,2	26,9	25,5	23,4
	X ₂	%	23,0	20,8	19,3	15,8	25,0	23,9	22,6	20,8
	X ₀	%	3,2	2,9	2,7	2,2	3,5	3,3	3,2	2,9
Short Circuit Ratio	Kcc		0,31	0,40	0,60	0,96	0,23	0,27	0,31	0,40
Time Constants	Td'	sec.	0,125							
	Td''	sec.	0,0193							
	Tdo'	sec.	2,71							
	Tα	sec.	0,0258							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load	Amp.		0,6	0,7	1	1,2	0,4	0,5	0,6	0,7
Excitation at full load	Amp.		3,6	3,5	3,9	4	3	3,1	3,2	3,4
Overload (long-term)		%	1 hour in a 6 hours period 110% rated load							
Overload per 20 sec.		%	300							
Stator Winding Resistance (20°C)	Ω		0,0106							
Rotor Winding Resistance (20°C)	Ω		5,176							
Exciter Resistance (20 °C)	Ω		Rotor : 0,317				Stator : 8,85			
Heat dissipation at f.l.c.l.H	W		26439	25985	27350	26004	25143	24421	24732	24202
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 %		2,4 / 2,5							
Waveform Distors.(THD) at no load	LL/LN %		2,6 / 2,5							
Mechanical characteristics										
Protection			IP 21 (other protection on request)							
DE bearing			6322							
NDE bearing			6318.2RS							
Weight of wound stator assembly	kg		428							
Weight of wound rotor assembly	kg		274,6							
Weight of complete generator	kg		1171							
Maximun overspeed	rpm		2250							
Unbalanced magnetic pull at f.l.c.l.F	kN/mm		6,5							
Cooling air requirement	m ³ /min		54				64,8			
Inertia Constant (H)	sec.		0,175				0,210			
Noise level at 1m/7m	dB(A)		94 / 82				98 / 88			

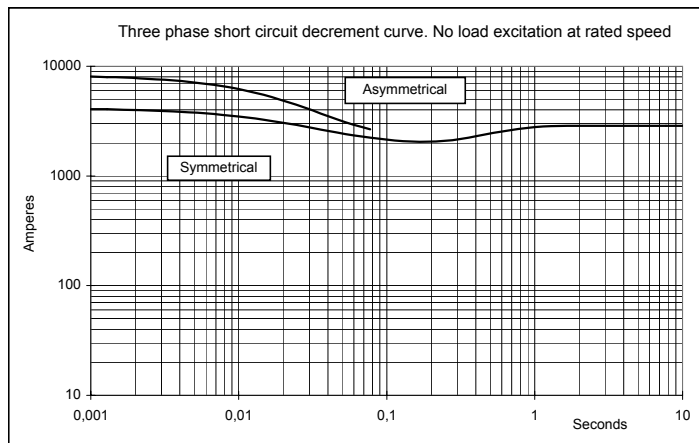
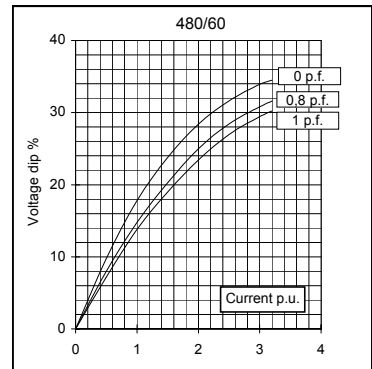
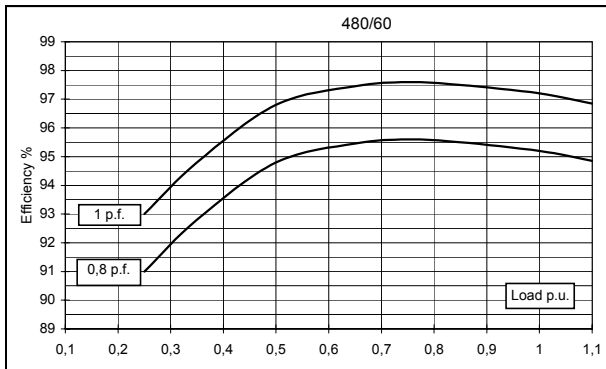
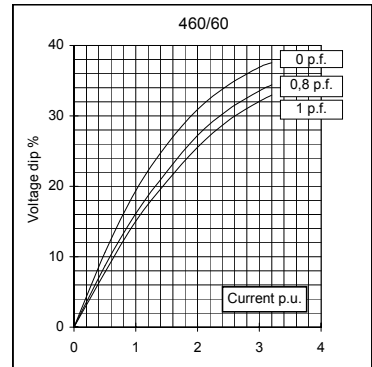
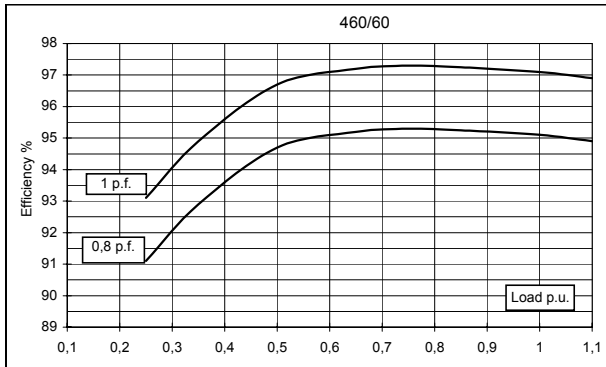
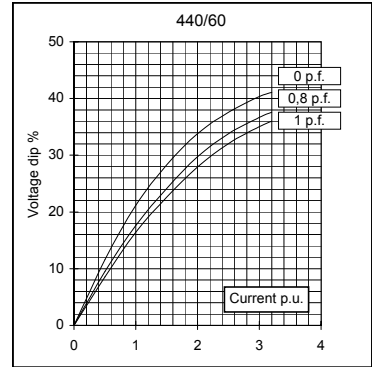
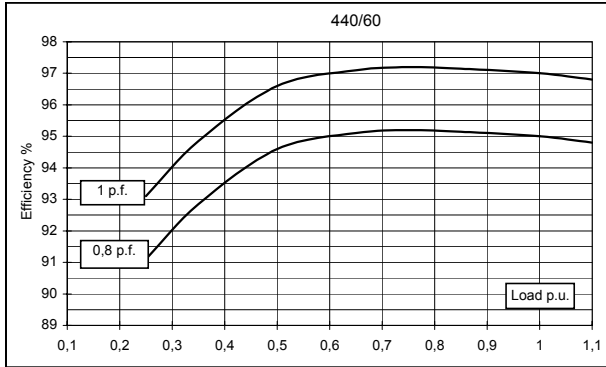
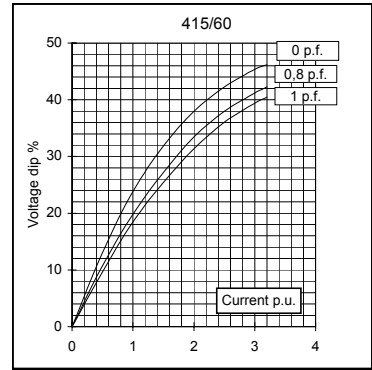
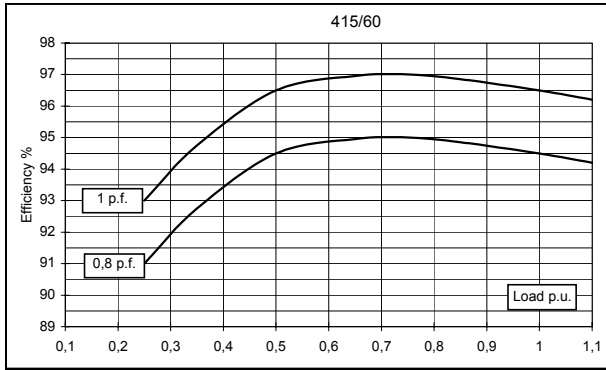
All technical data are to be considered as a reference and they can be modified without any notice.

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

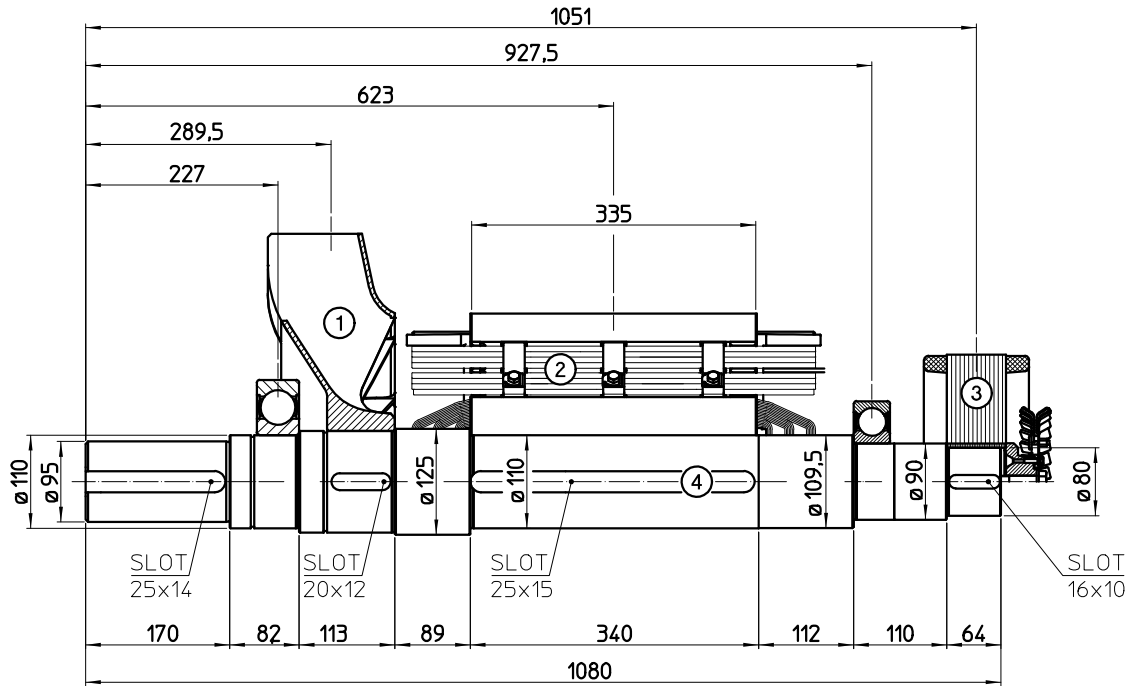
50 Hz



60 Hz

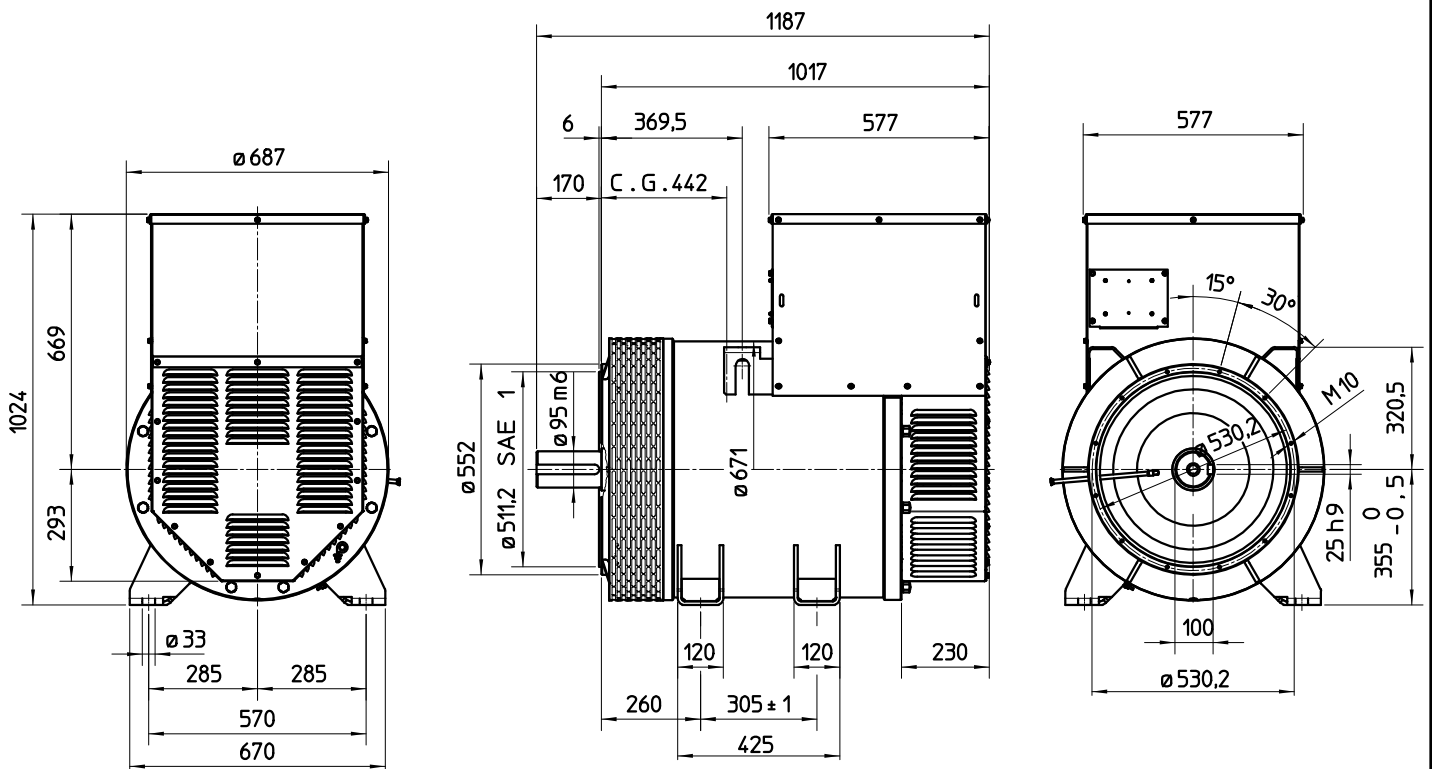


TWO BEARING MOMENTS OF INERTIA



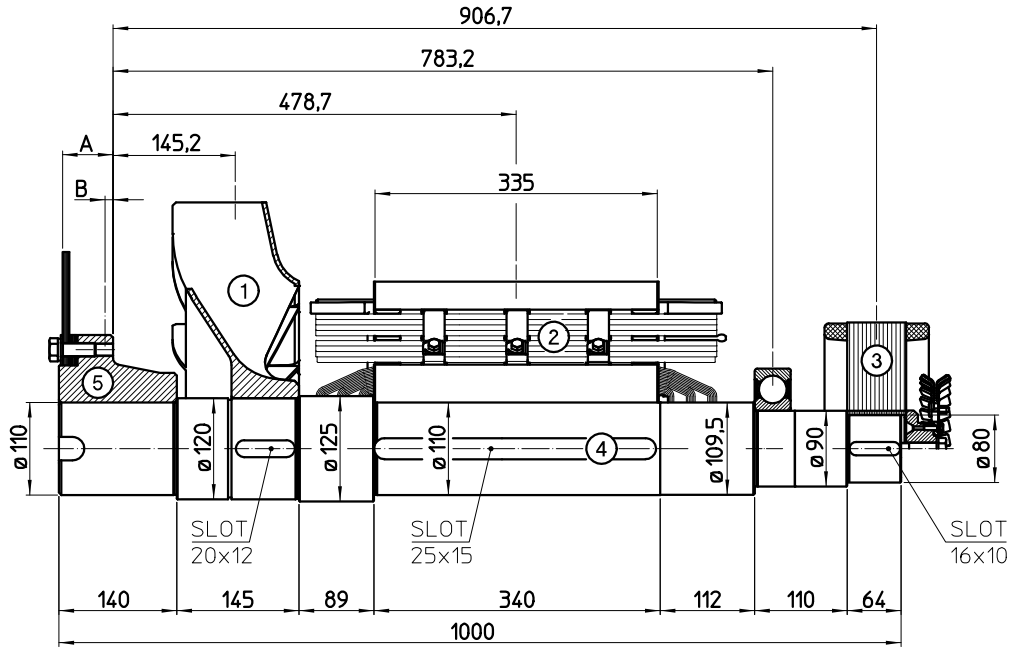
COMPONENT	WEIGHT kg	J kgm ²
1 FAN	10,2	0,335
2 MAIN ROTOR	274,6	5,846
3 EX. ROTOR	35	0,562
4 SHAFT	73,6	0,109
TOTAL	393,4	6,852

TWO BEARING DIMENSIONS



C.G.= GRAVITY CENTER

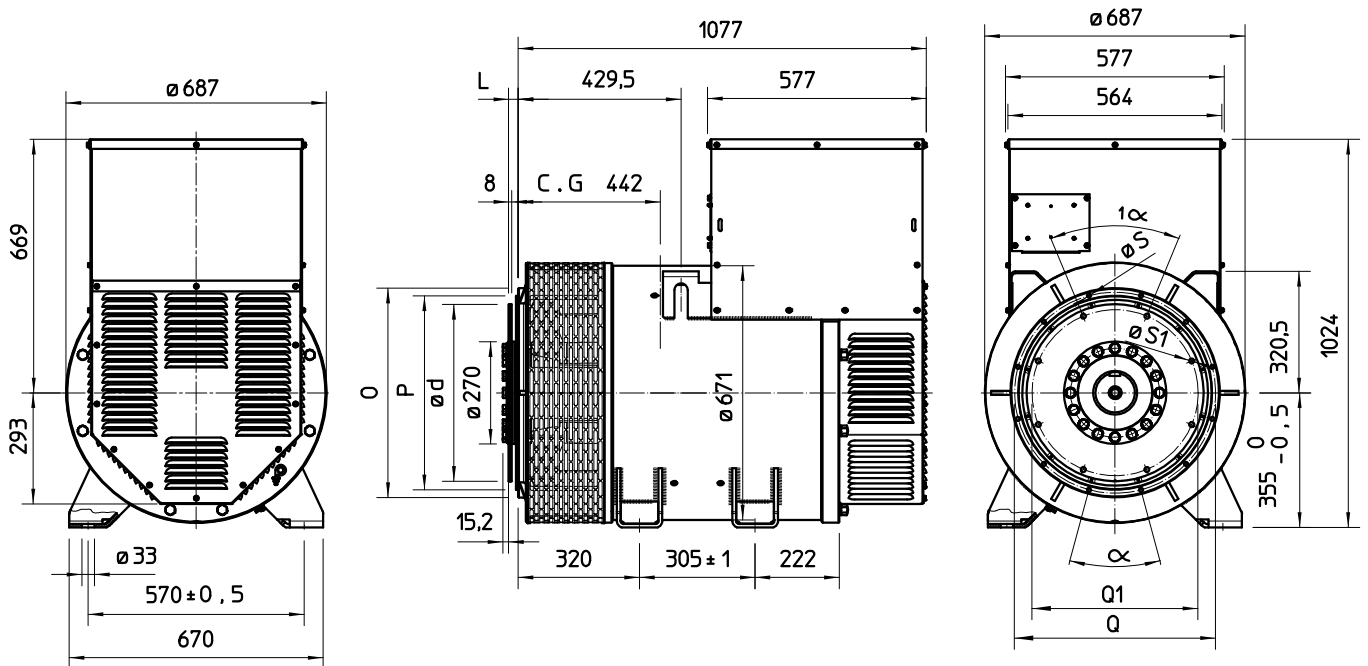
SINGLE BEARING MOMENTS OF INERTIA



COMPONENT	WEIGHT kg	J kgm ²
1 FAN	10,2	0,335
2 MAIN ROTOR	274,6	5,846
3 EX. ROTOR	35	0,562
4 SHAFT	72	0,111
TOTAL	391,8	6,854

Sae No	⑤ SHAFTS COUPLING FLEX PLATE			
	A	B	WEIGHT kg	J kgm ²
14	60	9,6	41,4	0,511
18	50	6,6	45,1	0,858

SINGLE BEARING DIMENSIONS



SAE N.	FLANGIA / FLANGE BRIDE / FLANSCH					
	O	P	Q	N. FORI	S	α
1	552	511,2	530,2	12	11	30°
1/2	648	584,2	619,1	12	14	30°
0	711	647,7	679,5	16	14	22,5°
00	883	787,4	850,9	16	14	22,5°

VOL. N.	GIUNTI A DISCHI / DISC COUPLING DISCQUE DE MONOPALIER / SCHEIBENKUPPLUNG					
	L	d	Q1	N. FORI	S1	α1
14	25,4	466,72	438,15	8	14	45°
18	15,7	571,5	542,92	6	17	60°

C.G.= GRAVITY CENTER