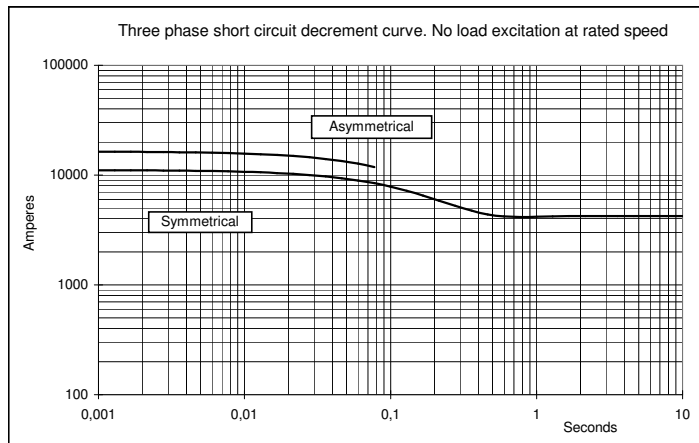
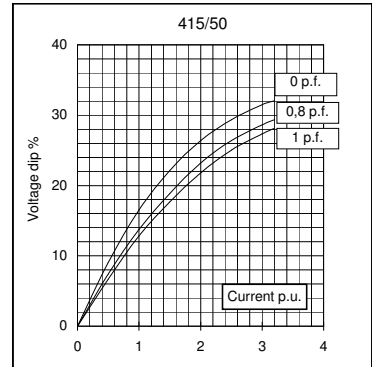
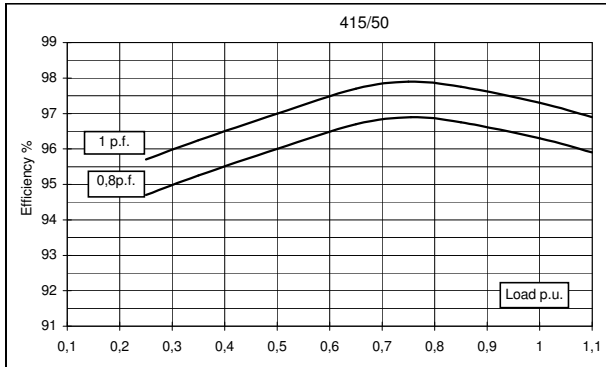
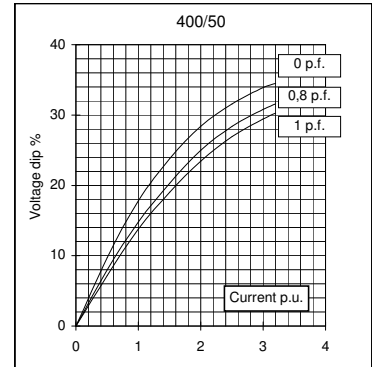
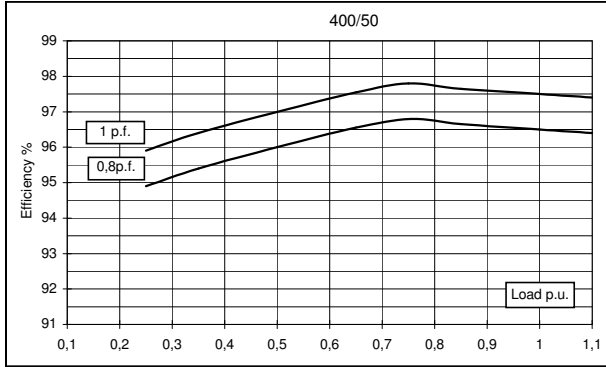
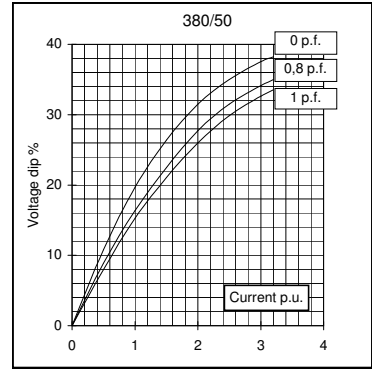
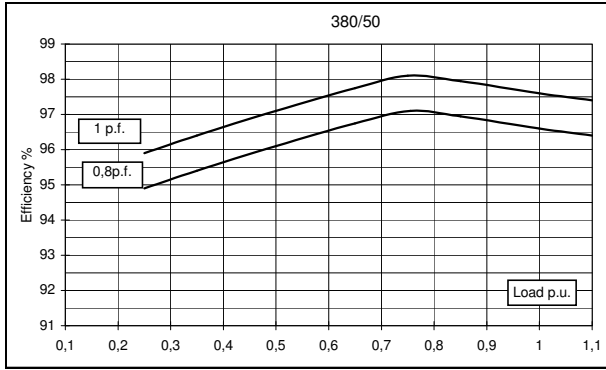


Electrical Characteristics										
Frequency	Hz	50				60				
Voltage (parallel star)	V	380	400	415	440	415	440	460	480	
Rated power class H	kVA	980	980	980	/	/	1100	1200	1200	
	kW	784	784	784	/	/	880	960	960	
Rated power class F	kVA	880	880	880	/	/	1000	1050	1050	
	kW	704	704	704	/	/	800	840	840	
Regulation 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	%	96,6	96,5	96,3	/	/	96,7	96,9	96,8
(see graph. for details)	3/4	%	97,1	96,8	96,9	/	/	96,9	97,3	97
	2/4	%	96,1	96	96	/	/	96,1	96,3	96,2
	1/4	%	94,9	94,9	94,7	/	/	94,9	95	95,1
Reactances (f. l.cl. F)	Xd	%	268,1	242	224,8	/	/	274,3	263,5	242
	Xd'	%	20,5	18,5	17,2	/	/	20,97	20,1	18,5
	Xd''	%	14,1	12,7	11,8	/	/	14,39	13,8	12,7
	Xq	%	159,6	144	133,8	/	/	163,2	156,8	144
	Xq'	%	159,6	144	133,8	/	/	163,2	156,8	144
	Xq''	%	34,3	31,0	29	/	/	35,1	33,8	31,0
	X ₂	%	25,5	23,0	21,4	/	/	26,07	25,0	23,0
	X ₀	%	3,1	2,8	3	/	/	3,17	3,0	2,8
Short Circuit Ratio	Kcc		0,37	0,41	0,44	/	/	0,36	0,37	0,41
Time Constants	Td'	sec.	0,20							
	Td''	sec.	0,17							
	Tdo'	sec.	2,90							
	Tα	sec.	0,02							
Short Circuit Current Capacity		%	>300				>300			
Excitation at no load	Amp.		0,85	0,9	1	/	/	0,6	0,7	0,8
Excitation at full load	Amp.		2,8	3	3,2	/	/	2,7	2,8	2,9
Overload (long-term)	%	1 hour in a 6 hours period 110% rated load								
Overload per 20 sec.	%	300								
Stator Winding Resistance (20 °C)	Ω	0,0071								
Rotor Winding Resistance (20 °C)	Ω	4,30								
Exciter Resistance (20 °C)	Ω	Rotor : 0,17				Stator : 16,9				
Heat dissipation at f.l.cl.H	W	27.594	28.435	30.123	/	/	30.031	30.712	31.736	
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 %	3,6 / 3,3								
Waveform Distors.(THD) at no load	LL/LN %	1,2 / 1,1								
Mechanical characteristics										
Protection		IP 21 (other protection on request)								
DE bearing		6330								
NDE bearing		6324								
Weight of wound stator assembly	kg	764								
Weight of wound rotor assembly	kg	923								
Weight of complete generator	kg	3082								
Maximun overspeed	rpm	1500								
Unbalanced magnetic pull at f.l.cl.F	kN/mm	5,2								
Cooling air requirement	m ³ /min	95				120				
Inertia Constant (H)	sec.	0,23				0,28				
Noise level at 1m/7m	dB(A)	91 / 82				93 / 84				

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

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50 Hz



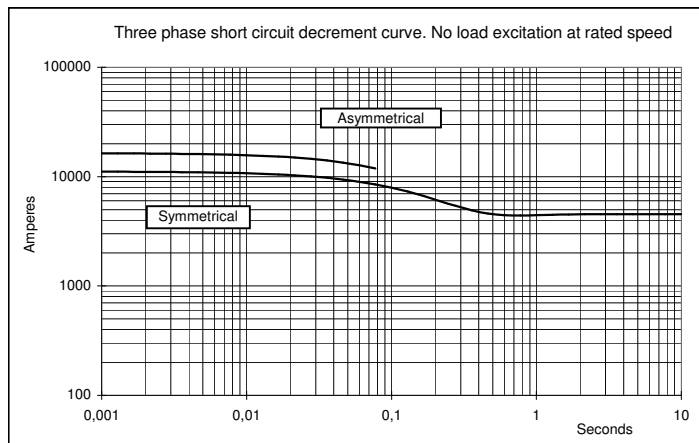
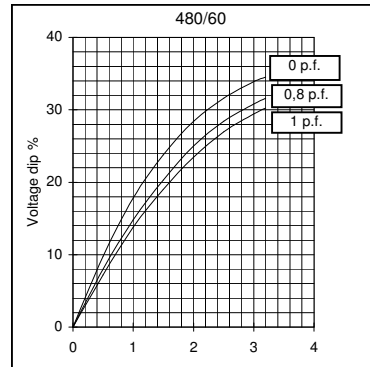
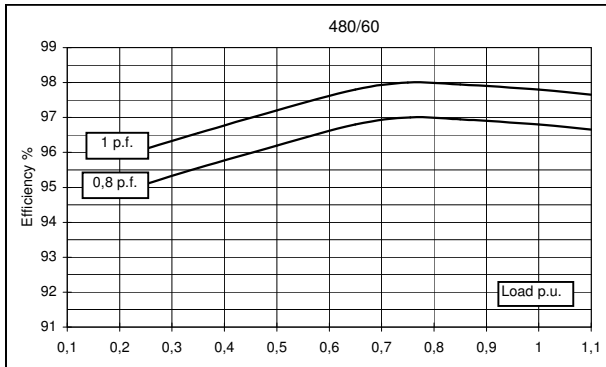
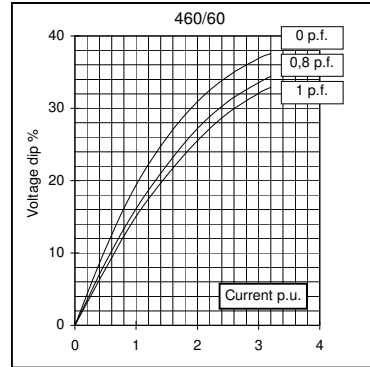
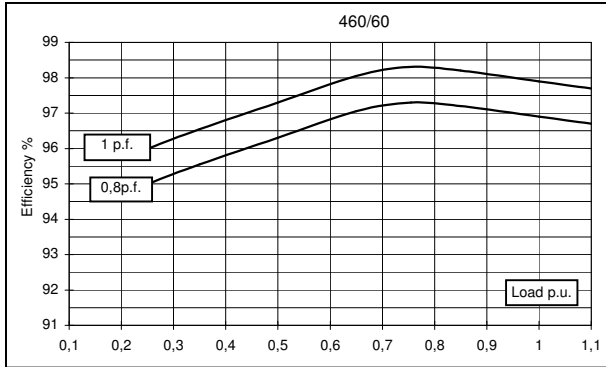
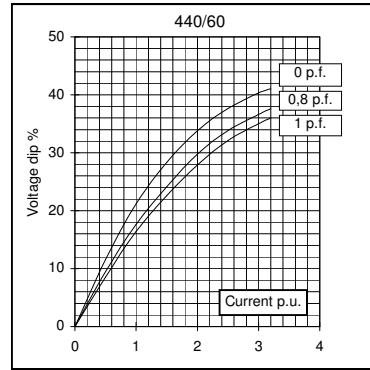
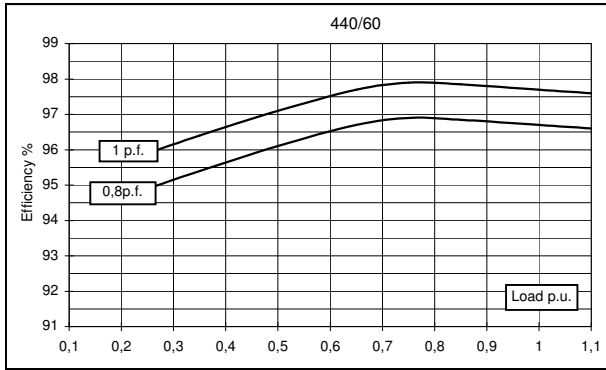


GENERATOR TYPE ECO 46-1S/6

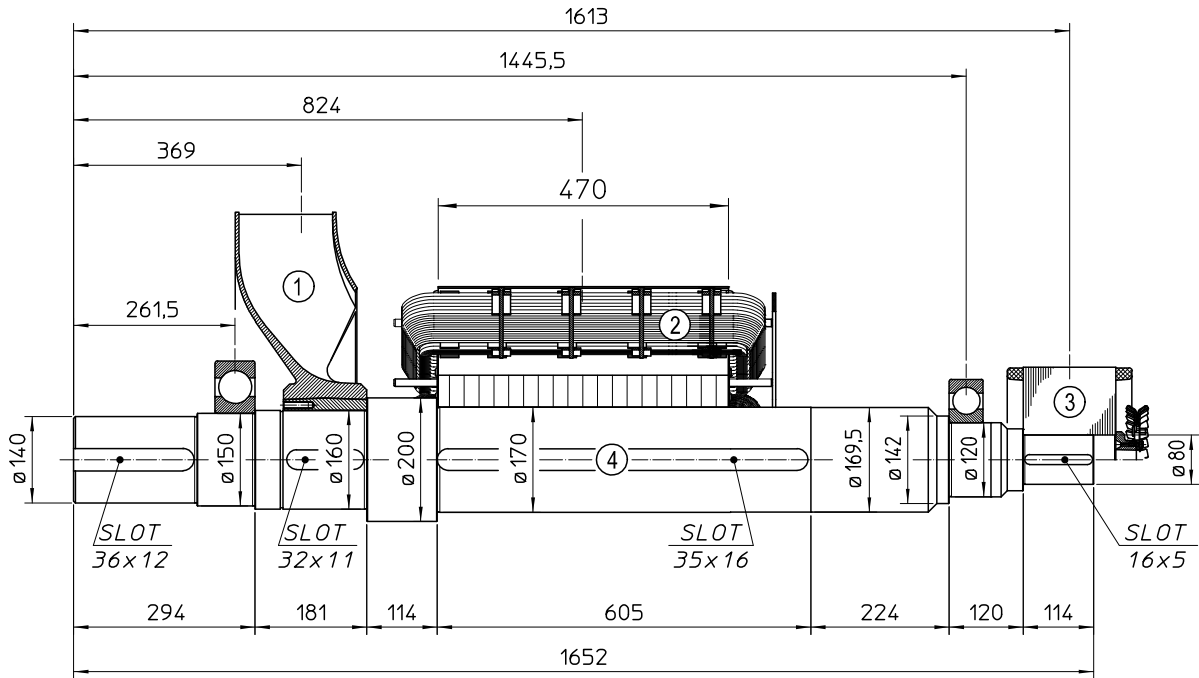
Document : DS183A/3

issue 001 date : 14/02/2012

60 Hz

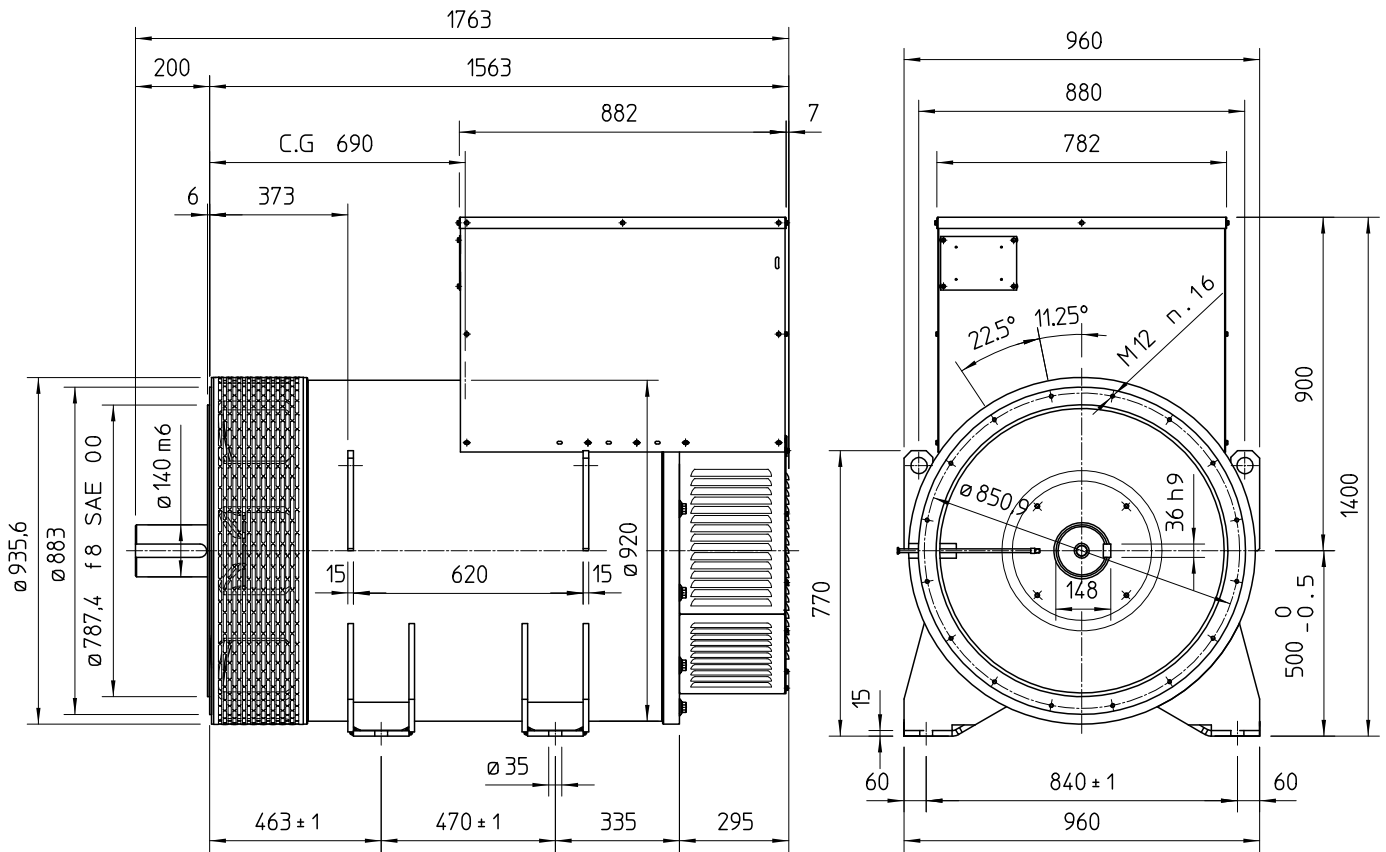


TWO BEARING MOMENTS OF INERTIA



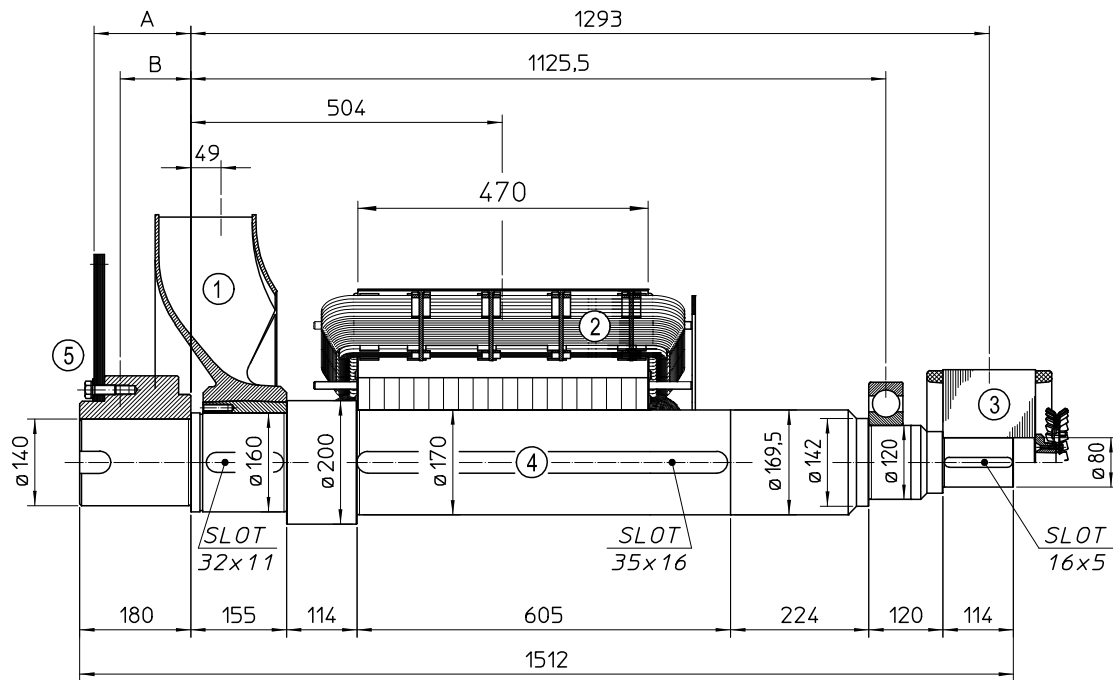
POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	42.7	2,250
2	MAIN ROTOR	923	38.2
3	EX. ROTOR	74.7	0.909
4	SHAFT	248.3	0.844
TOTAL		1288.7	42.203

TWO BEARING DIMENSIONS



C.G.= GRAVITY CENTER

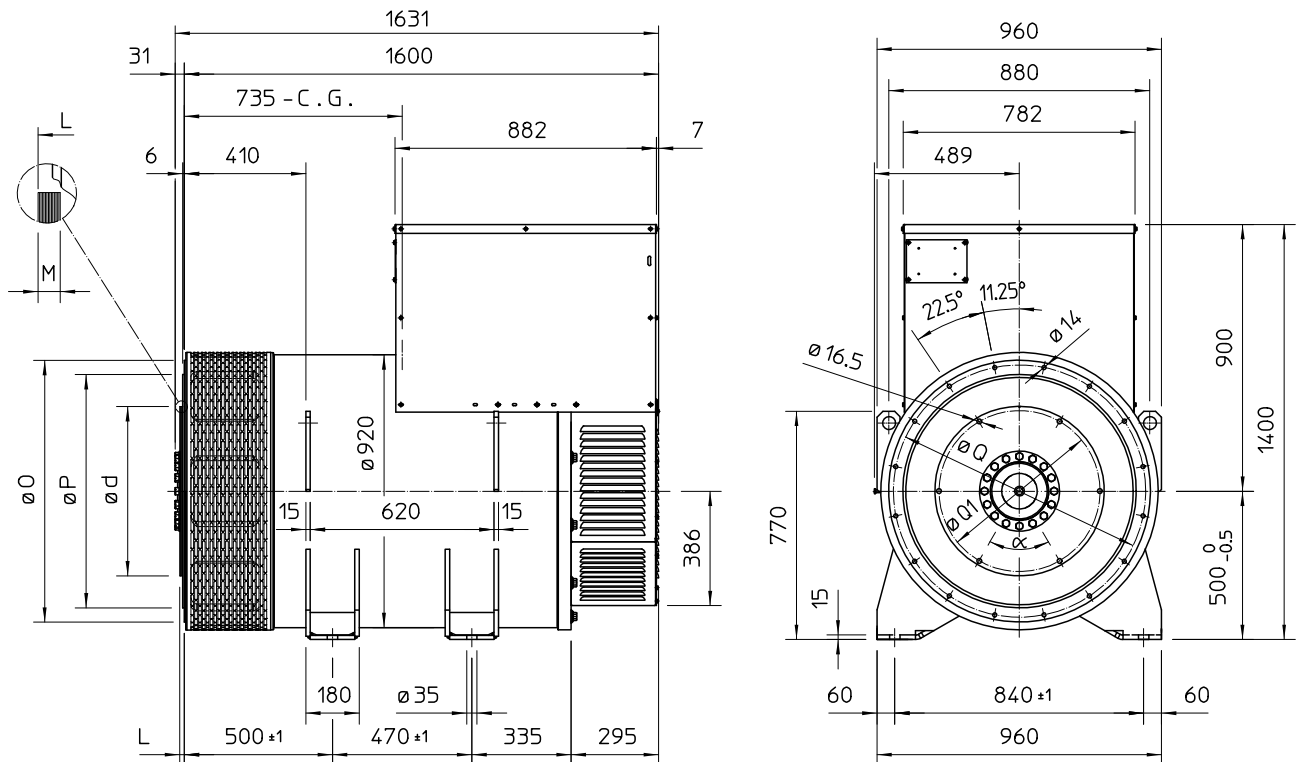
SINGLE BEARING MOMENTS OF INERTIA



POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	42.7	2,250
2	MAIN ROTOR	923	38.200
3	EX. ROTOR	74.7	0.909
4	SHAFT	230	0.792
TOTAL		1270.4	42.151

SAE N°	5		SHAFTS COUPLING FLEX PLATE	
	A	B	WEIGHT kg	J kgm ²
18	172.7	113.4	82.7	1.863
21	157	114.6	93.6	3.206

SINGLE BEARING DIMENSIONS



SAE N°	FLANGE		
	O	P	Q
0	711	647.7	679.5
00	883	787.4	850.9

SAE N°	DISC COUPLING						
	d	L	M	Q1	HOLES N°	α	
18	571.5	15.7	15	542.92	6	60°	
21	673.1	0	17	641.35	12	30°	

C.G.= GRAVITY CENTER