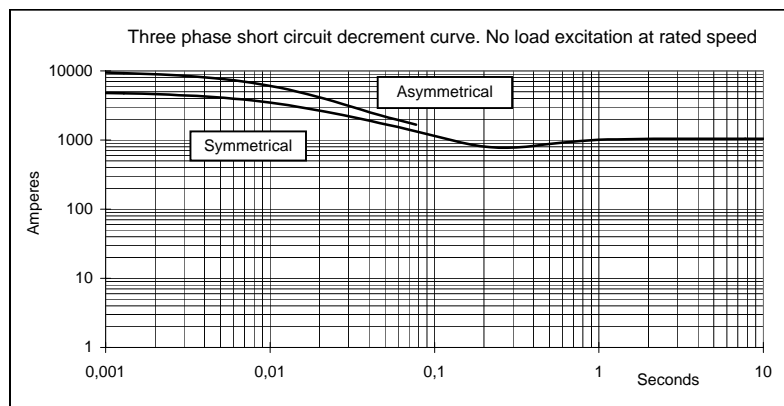
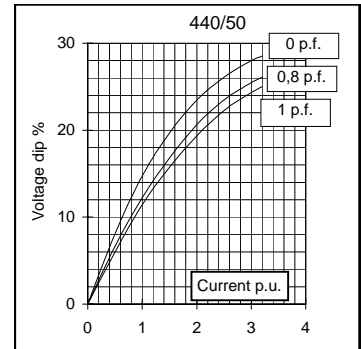
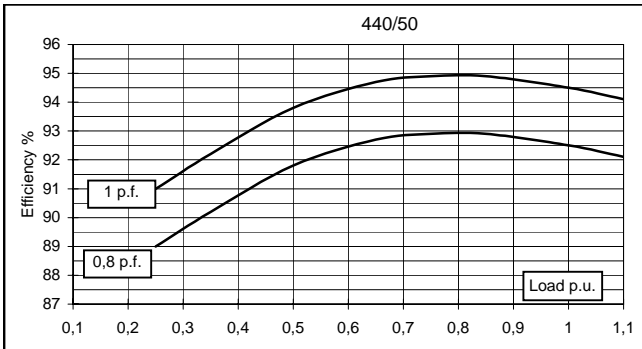
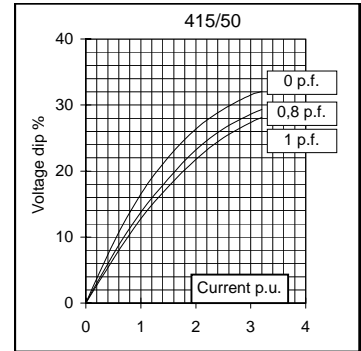
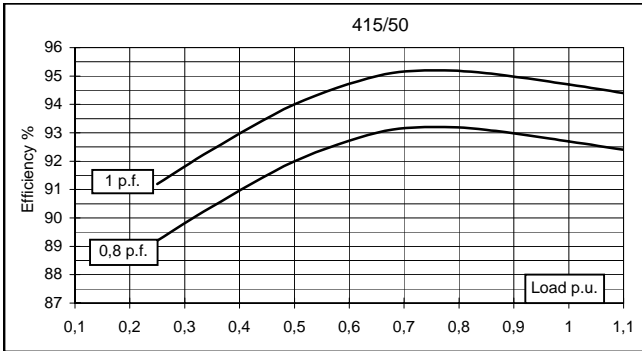
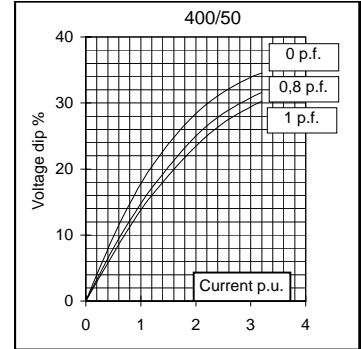
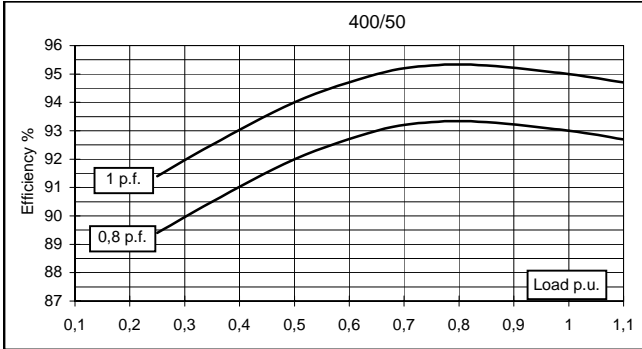
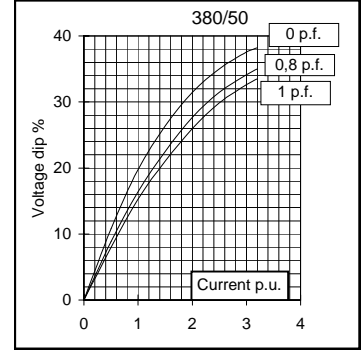
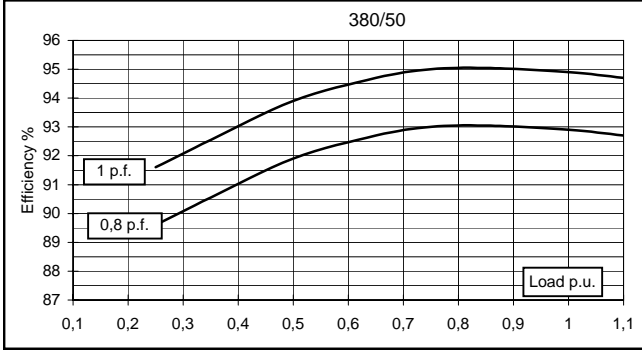
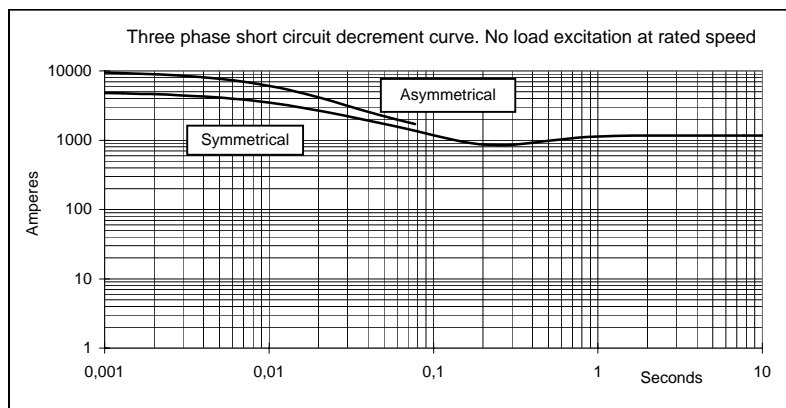
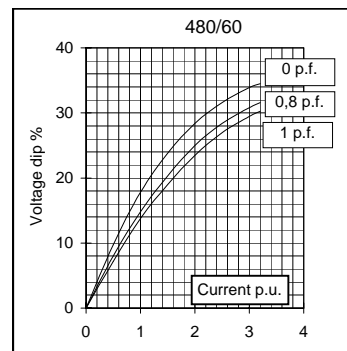
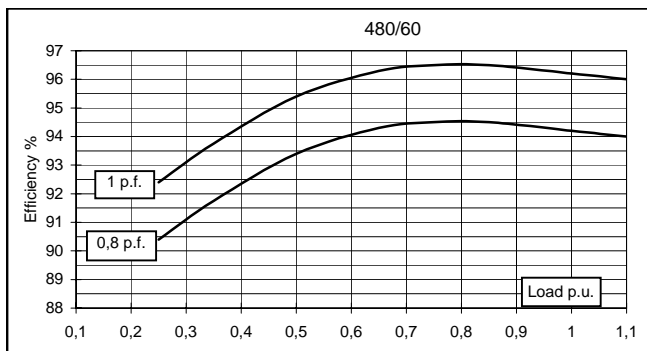
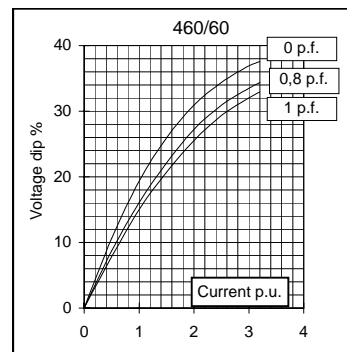
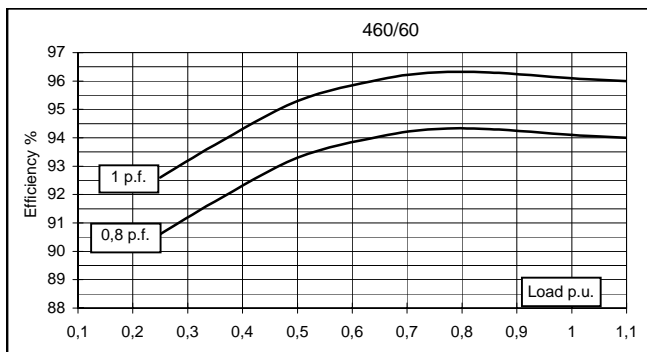
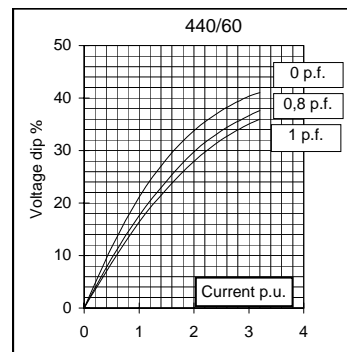
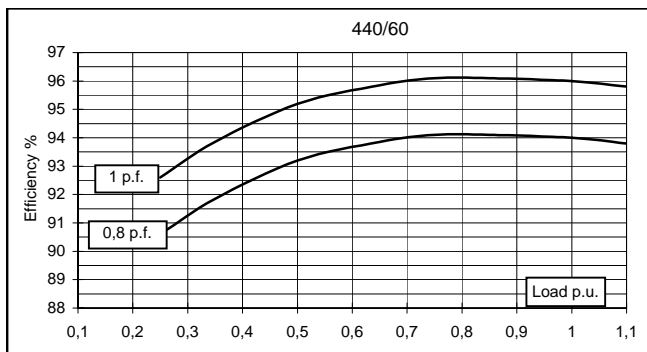
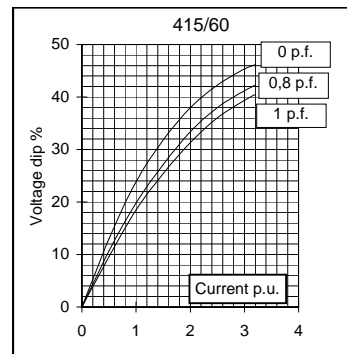
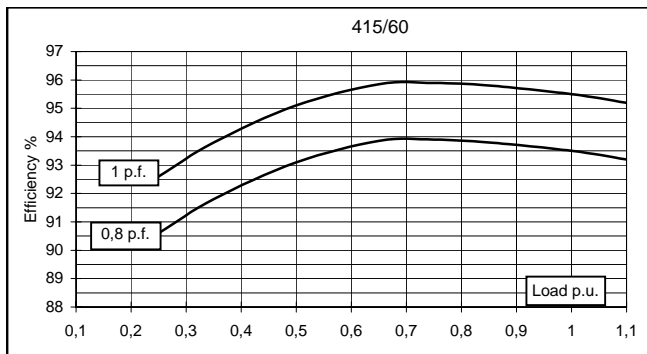


Electrical Characteristics										
Frequency	Hz	50				60				
Voltage (series star)	V	380	400	415	440	415	440	460	480	
Rated power class H	kVA	225	225	225	210	260	270	270	270	
	kW	180	180	180	168	208	216	216	216	
Rated power class F	kVA	207	207	207	190	240	250	250	250	
	kW	166	166	166	152	192	200	200	200	
Regulation with UVR6		±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	%	92,9	93	92,7	92,5	93,5	94	94,1	94,2
(see graph. for details)	3/4	%	93	93,3	93,2	92,9	93,9	94,1	94,3	94,5
	2/4	%	91,9	92	92	91,8	93,1	93,2	93,3	93,4
	1/4	%	89,6	89,4	89,2	89	90,6	90,6	90,6	90,4
Reactances (f. l.cl. F)	Xd	%	212,7	192	178,4	148,1	247,3	228,5	209,1	192
	Xd'	%	13,6	12,3	11,4	9,5	15,8	14,6	13,4	12,3
	Xd''	%	7,2	6,5	6,0	5,0	8,4	7,7	7,1	6,5
	Xq	%	117,5	106	98,5	81,8	136,6	126,1	115,4	106
	Xq'	%	117,5	106	98,5	81,8	136,6	126,1	115,4	106
	Xq''	%	24,6	22,2	20,6	17,1	28,6	26,4	24,2	22,2
	X ₂	%	17,1	15,4	14,3	11,9	19,8	18,3	16,8	15,4
	X ₀	%	2,9	2,6	2,4	2,0	3,3	3,1	2,8	2,6
Short Circuit Ratio	Kcc		0,42	0,45	0,67	1,12	0,32	0,37	0,42	0,45
Time Constants	Td'	sec.	0,083							
	Td''	sec.	0,013							
	Tdo'	sec.	1,10							
	Tα	sec.	0,018							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load	Amp.		0,55	0,67	0,8	1,1	0,3	0,4	0,5	0,65
Excitation at full load	Amp.		2,8	3	3,2	3,3	2,4	2,5	2,7	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	0,0085							
Rotor Winding Resistance (20°C)		Ω	4,449							
Exciter Resistance (20 °C)		Ω	Rotor : 0,685				Stator : 15,28			
Heat dissipation at f.l.cl.H	W		13757	13548	14175	13622	14460	13787	13543	13299
Telephone Interference			FHT < 2%				TIF < 40			
Radio interference			EN50081-1, EN50082-1, VDE0875K. For others standards apply to factory							
Waveform Distors.(THD) at f. load	LL/LN %		2,8 / 2,9							
Waveform Distors.(THD) at no load	LL/LN %		2,6 / 2,8							
Mechanical characteristics										
Protection			IP 21 (other protection on request)							
DE bearing			6318.2RS							
NDE bearing			6314.2RS							
Weight of wound stator assembly	kg		195							
Weight of wound rotor assembly	kg		128							
Weight of complete generator	kg		590							
Maximun overspeed	rpm		2250							
Unbalanced magnetic pull at f.l.cl.F	kN/mm		5,7							
Cooling air requirement	m ³ /min		32				39			
Inertia Constant (H)	sec.		0,114				0,137			
Noise level at 1m/7m	dB(A)		82 / 69				86 / 73			

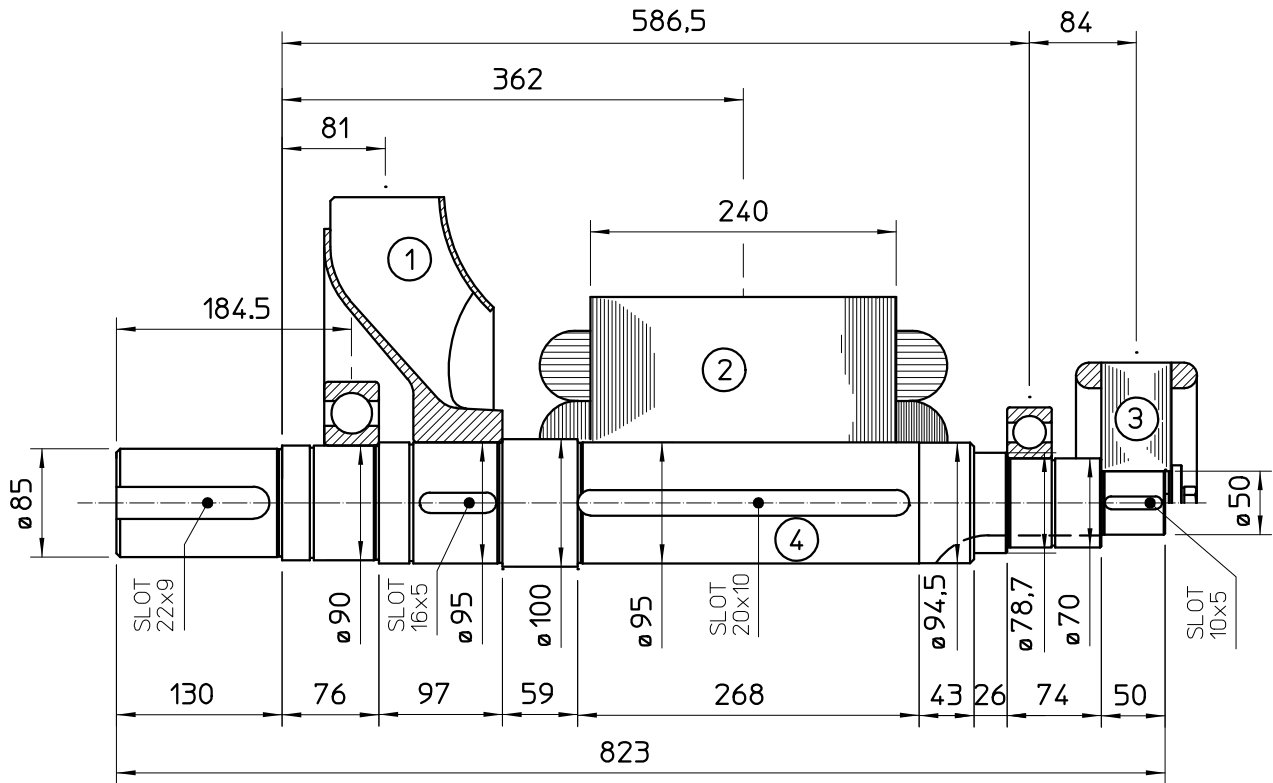
50 Hz



60 Hz

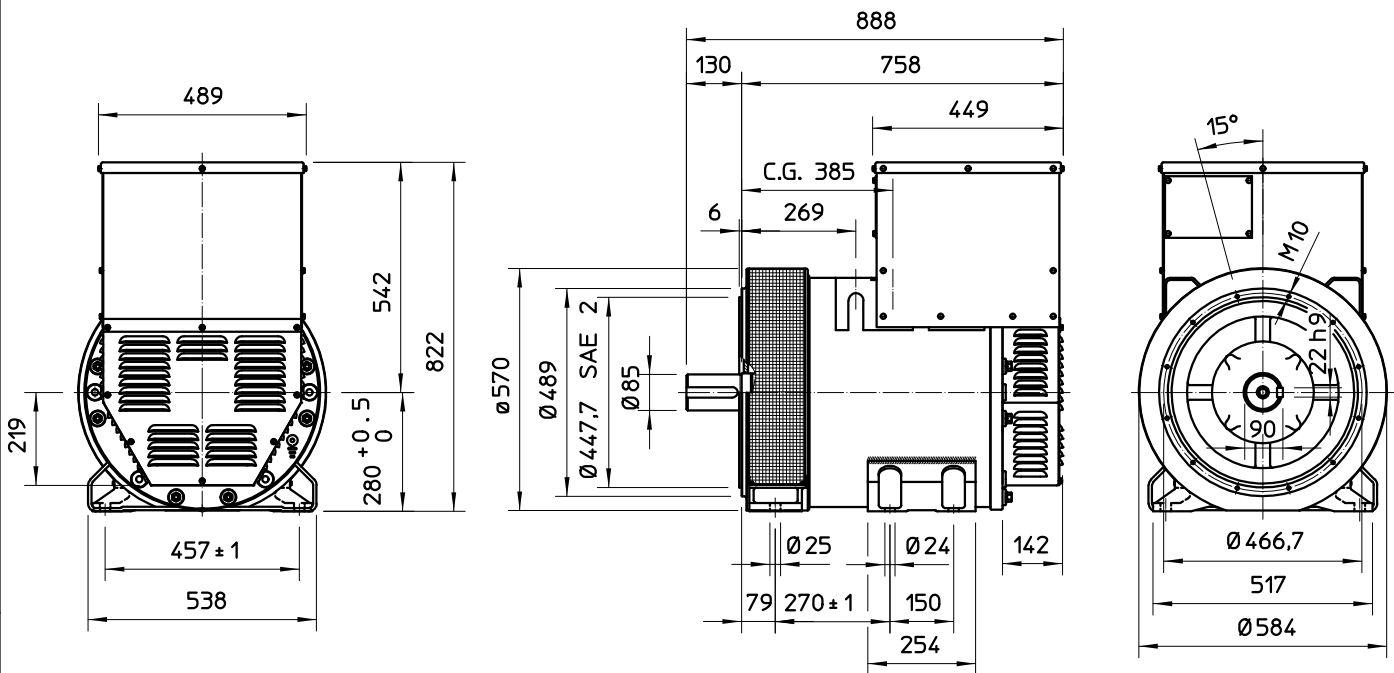


TWO BEARING MOMENTS OF INERTIA

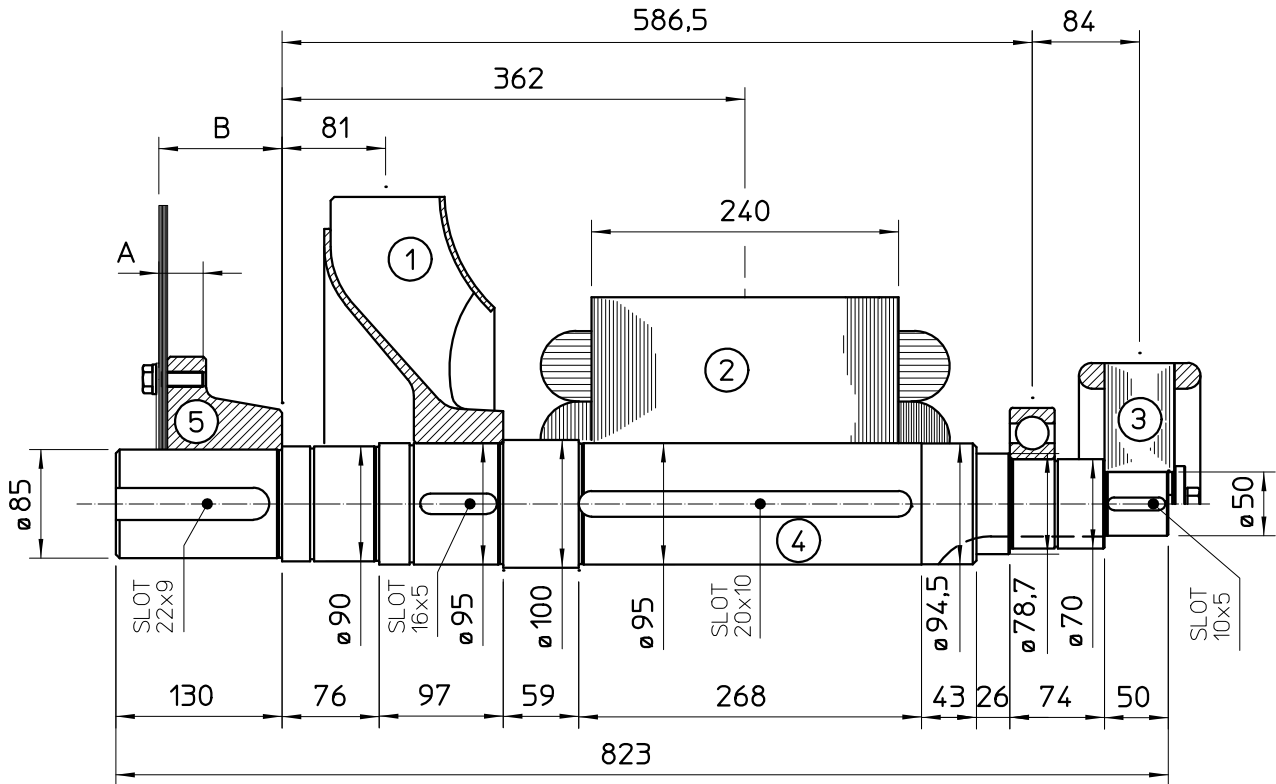


COMPONENT	WEIGHT kg	J kgm ²
1 FAN	6,1	0,1887
2 MAIN ROTOR	128	1,7593
3 EX. ROTOR	14,5	0,0874
4 SHAFT	38,5	0,0397
TOTAL	187,1	2,0751

TWO BEARING DIMENSIONS



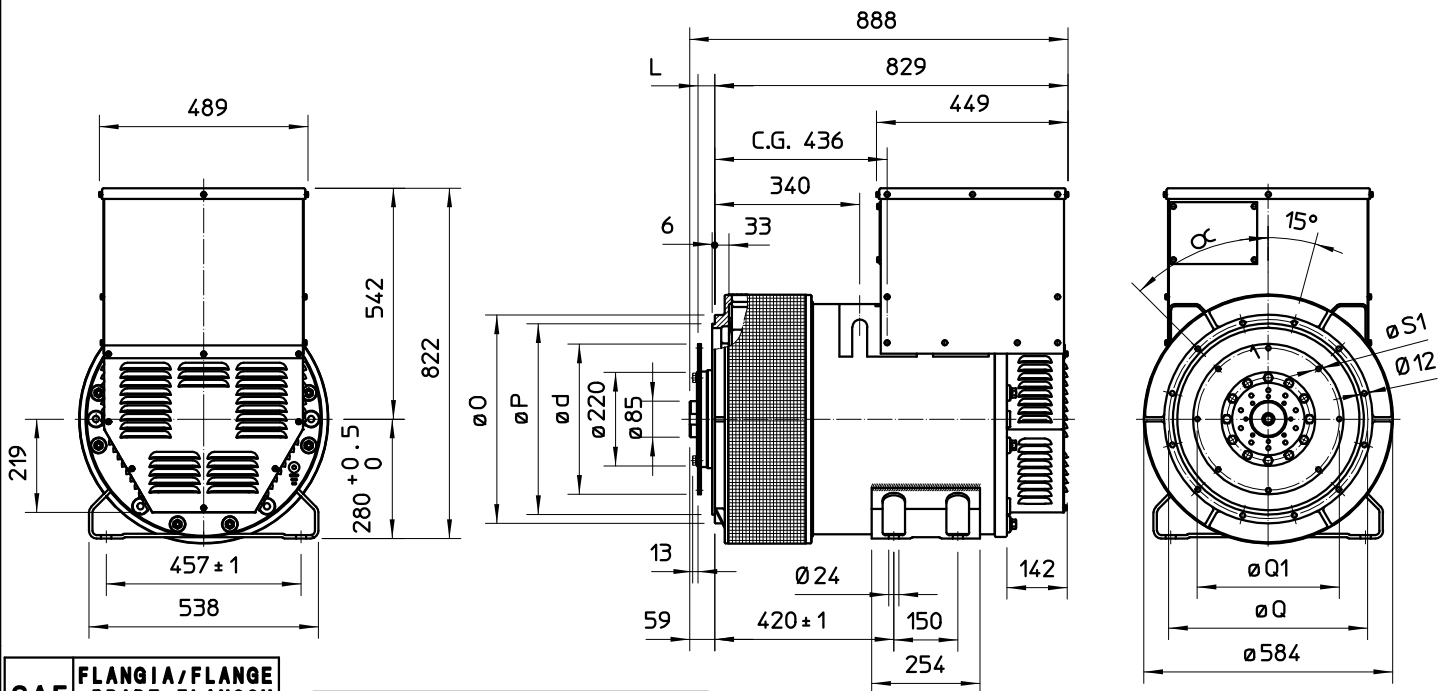
SINGLE BEARING MOMENTS OF INERTIA



COMPONENT	WEIGHT kg	J kgm ²
1 FAN	6,1	0,1887
2 MAIN ROTOR	128	1,7593
3 EX. ROTOR	14,5	0,0874
4 SHAFT	38,5	0,0397
TOTAL	187,1	2,0751

SAE No	SHAFTS COUPLING FLEX PLATE			
	A	B	WEIGHT kg	J kgm ²
5				
11.5	41.1	110.4	20,5	0,174
14	34.7	96.4	23,5	0,275

SINGLE BEARING DIMENSIONS



SAE N.	FLANGIA / FLANGE BRIDE / FLANSCH		
	O	P	Q
3	451	409,6	428,6
2	489	447,7	466,7
1	552	511,2	530,2
1/2	648	584,2	619,1

SAE N.	GIUNTI A DISCHI DISC COUPLING DISQUE DE MONOPALIER SCHEIBENKUPPLUNG						
	L	d	Q1	n _{fori}	S1	α1	
11 1/2	39,6	352,42	333,37	8	11	45°	
14	25,4	466,72	438,15	8	14	45°	

C.G = GRAVITY CENTER