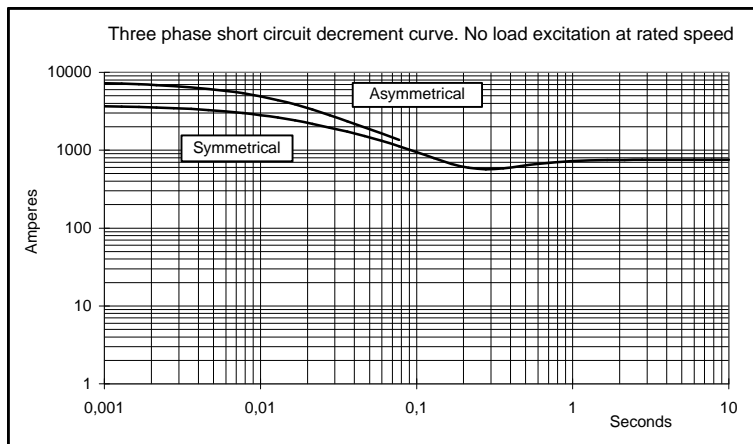
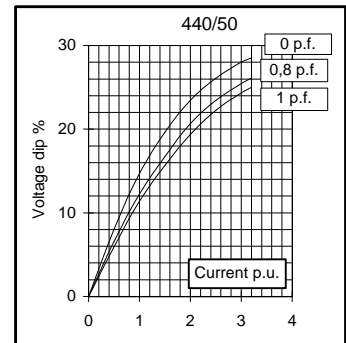
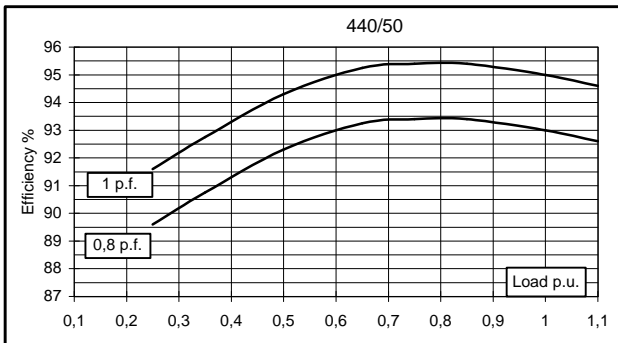
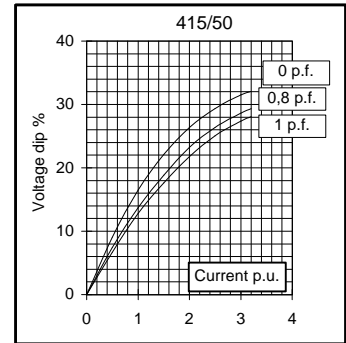
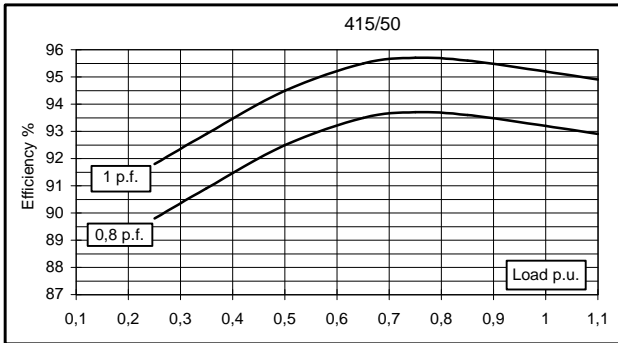
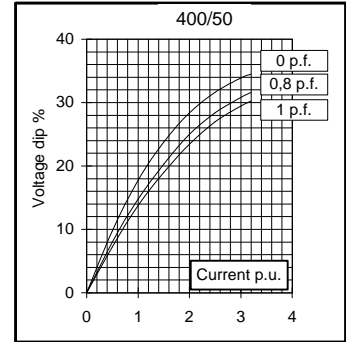
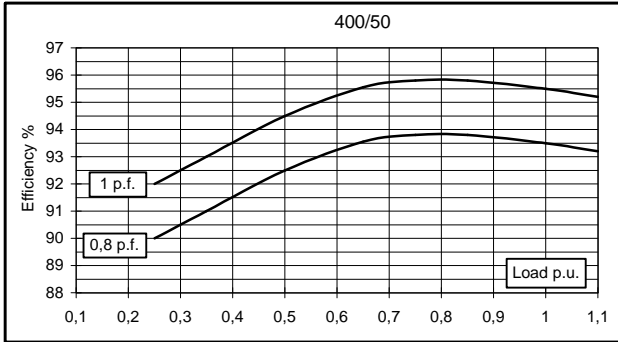
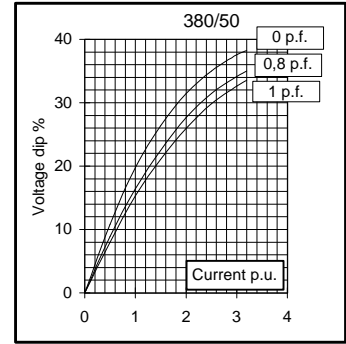
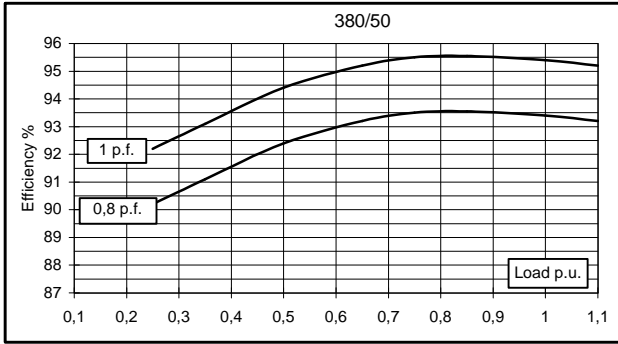
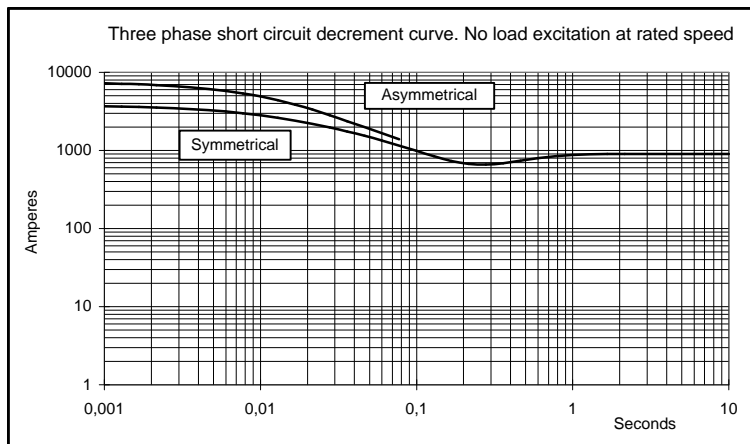
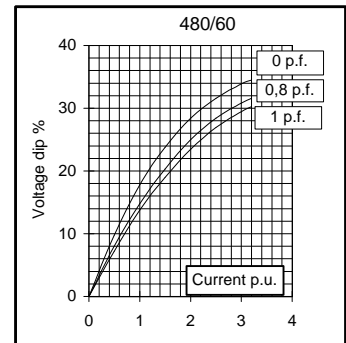
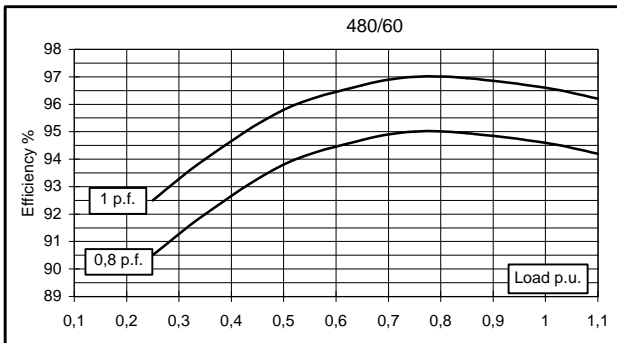
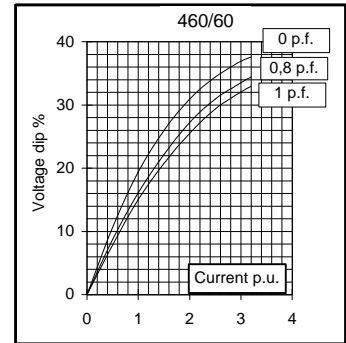
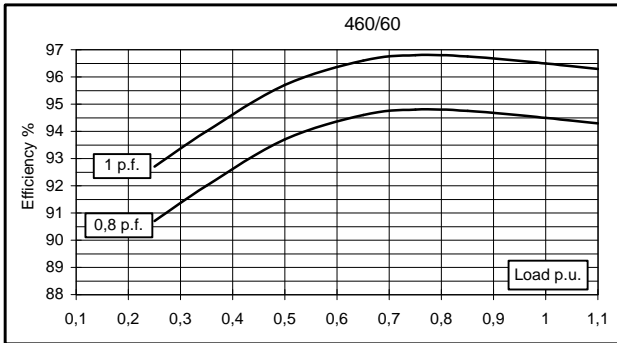
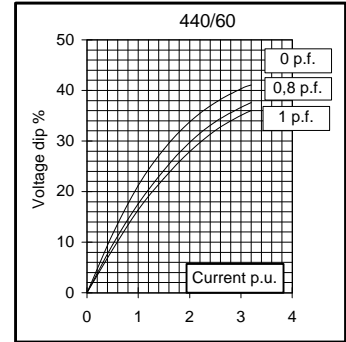
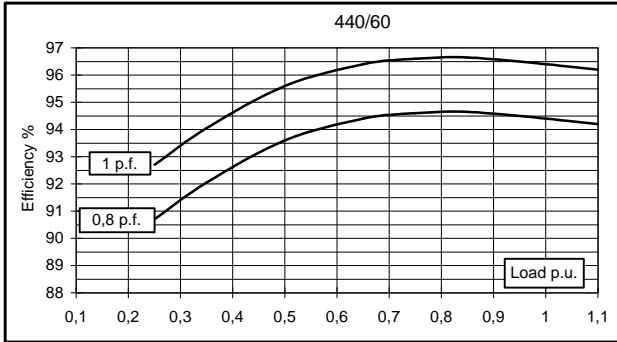
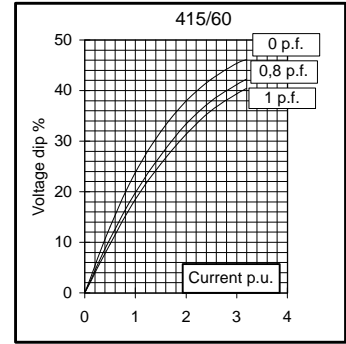
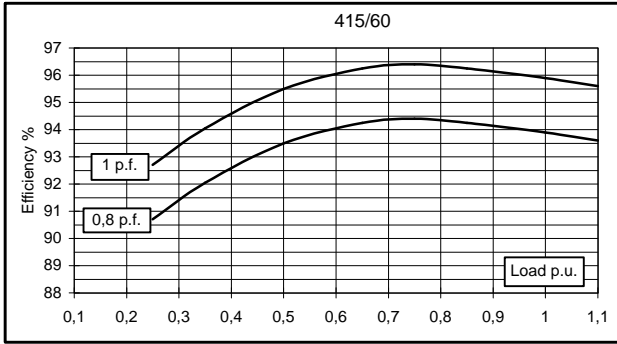


Electrical Characteristics										
Frequency	Hz	50				60				
Voltage (series star)	V	380	400	415	440	415	440	460	480	
Rated power class H	kVA	250	250	250	230	290	300	300	300	
	kW	200	200	200	184	232	240	240	240	
Rated power class F	kVA	230	230	230	215	270	280	280	280	
	kW	184	184	184	172	216	224	224	224	
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	%	93,4	93,5	93,2	93	93,9	94,4	94,5	94,6
(see graph. for details)	3/4	%	93,5	93,8	93,7	93,4	94,4	94,6	94,8	95
	2/4	%	92,4	92,5	92,5	92,3	93,5	93,6	93,7	93,8
	1/4	%	90,2	90	89,8	89,6	90,7	90,7	90,7	90,5
Reactances (f. l.cl. F)	Xd	%	238,2	215	199,7	163,5	278,0	255,9	234,1	215
	Xd'	%	16,1	14,5	13,5	11,0	18,8	17,3	15,8	14,5
	Xd''	%	8,3	7,5	7,0	5,7	9,7	8,9	8,2	7,5
	Xq	%	134,1	121	112,4	92,0	156,5	144,0	131,8	121
	Xq'	%	134,1	121	112,4	92,0	156,5	144,0	131,8	121
	Xq''	%	25,3	22,8	21,2	17,3	29,5	27,1	24,8	22,8
	X ₂	%	18,4	16,6	15,4	12,6	21,5	19,8	18,1	16,6
	X ₀	%	2,8	2,5	2,3	1,9	3,2	3,0	2,7	2,5
Short Circuit Ratio	Kcc		0,40	0,43	0,67	1,10	0,31	0,37	0,40	0,43
Time Constants	Td'	sec.	0,088							
	Td''	sec.	0,014							
	Tdo'	sec.	1,40							
	Tα	sec.	0,0175							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load	Amp.		0,6	0,71	0,8	0,95	0,4	0,5	0,58	0,7
Excitation at full load	Amp.		2,6	2,7	2,9	3,1	2,2	2,4	2,5	2,6
Overload (long-term)		%	1 hour in a 6 hours period 110% rated load							
Overload per 20 sec.		%	300							
Stator Winding Resistance (20°C)	Ω		0,0068							
Rotor Winding Resistance (20°C)	Ω		5,489							
Exciter Resistance (20 °C)	Ω		Rotor : 0,685				Stator : 15,28			
Heat dissipation at f.l.cl.H	W		14133	13904	14592	13849	15071	14237	13968	13700
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 / 2,1							
Waveform Distors.(THD) at no load	LL/LN %		2,9 / 3,1							
Mechanical characteristics										
Protection			IP 21 (other protection on request)							
DE bearing			6318.2RS							
NDE bearing			6314.2RS							
Weight of wound stator assembly	kg		239							
Weight of wound rotor assembly	kg		152							
Weight of complete generator	kg		692							
Maximun overspeed	rpm		2250							
Unbalanced magnetic pull at f.l.cl.F	kN/mm		5,1							
Cooling air requirement	m ³ /min		32				39			
Inertia Constant (H)	sec.		0,117				0,141			
Noise level at 1m/7m	dB(A)		82 / 69				86 / 73			

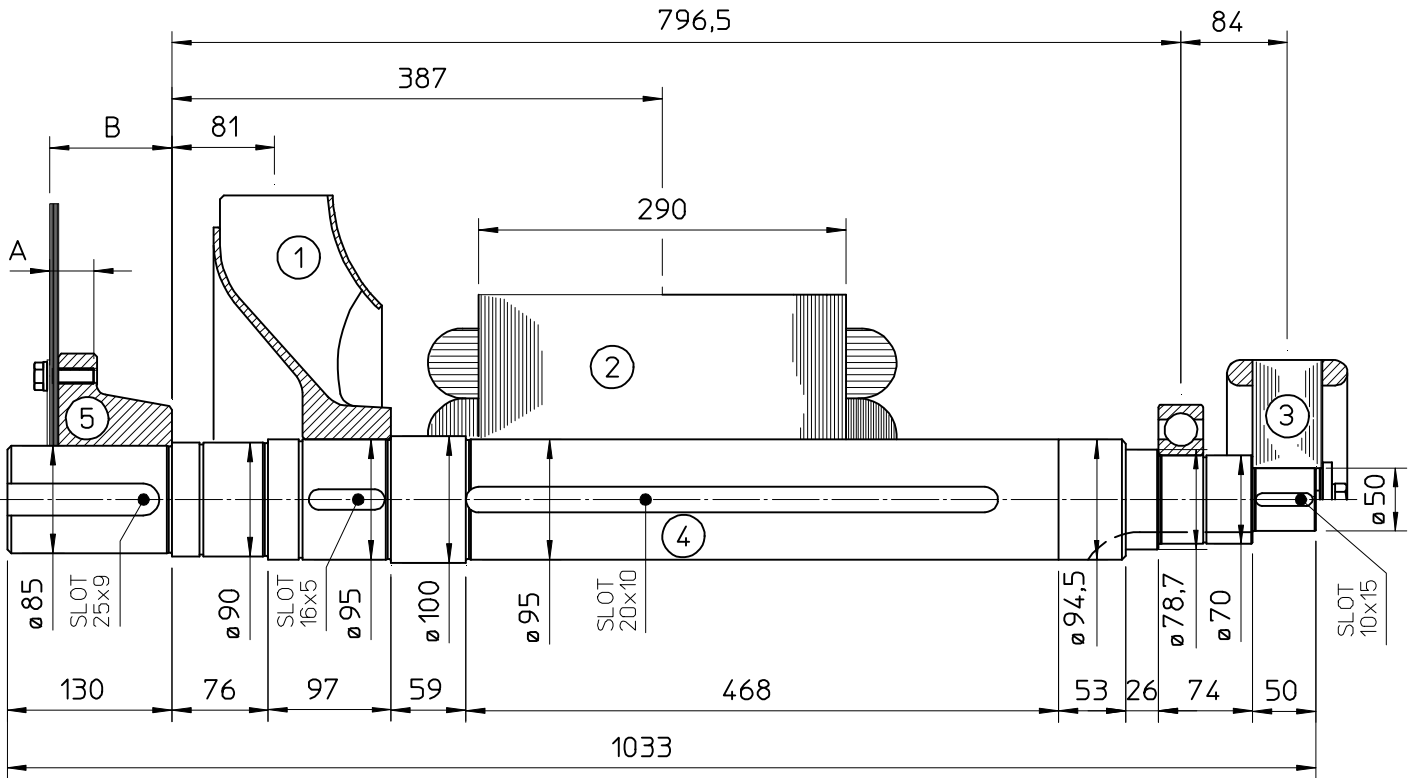
50 Hz



60 Hz



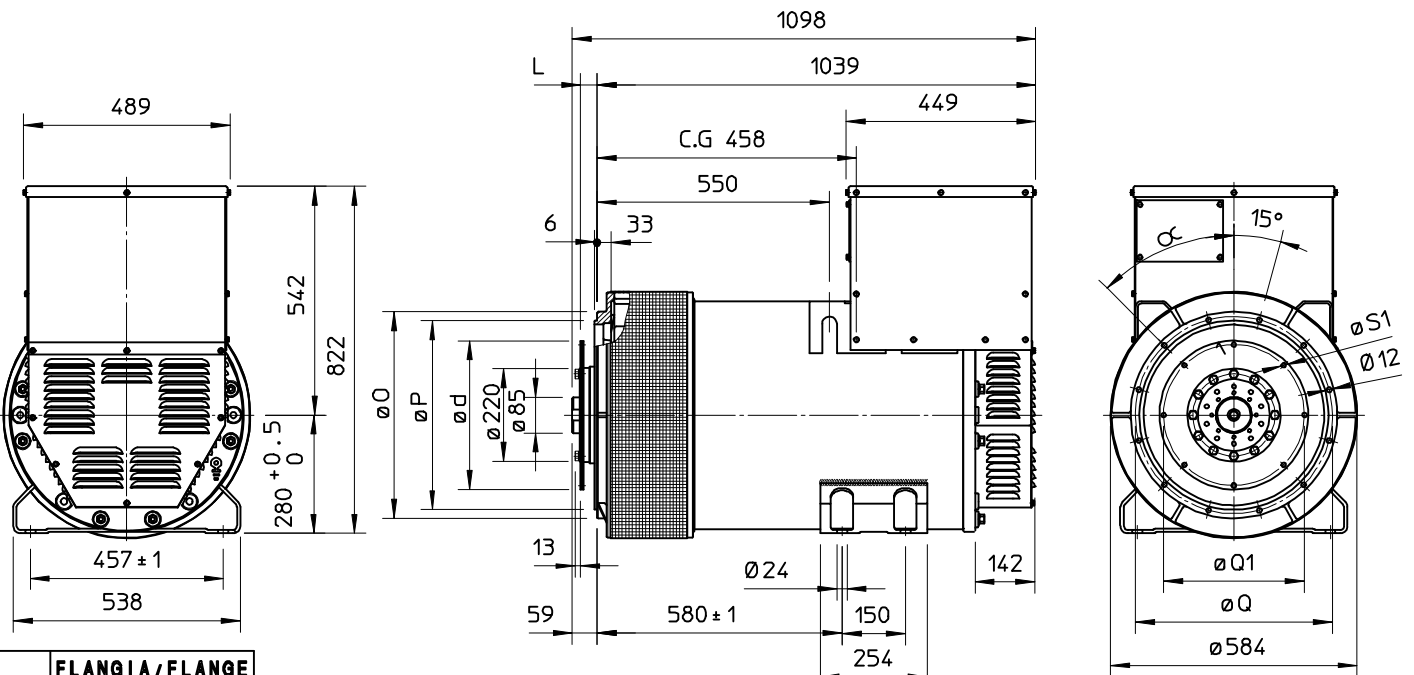
SINGLE BEARING MOMENTS OF INERTIA



COMPONENT	WEIGHT kg	J kgm ²
1 FAN	6,1	0,1887
2 MAIN ROTOR	152	2,0397
3 EX. ROTOR	14,5	0,0874
4 SHAFT	49,9	0,0525
TOTAL	222,5	2,3683

SAE No	SHAFTS COUPLING FLEX PLATE			
	A	B	WEIGHT kg	J kgm ²
5				
11.5	41.1	110.4	22,7	0,306
14	34.7	96.4	22,7	0,306

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