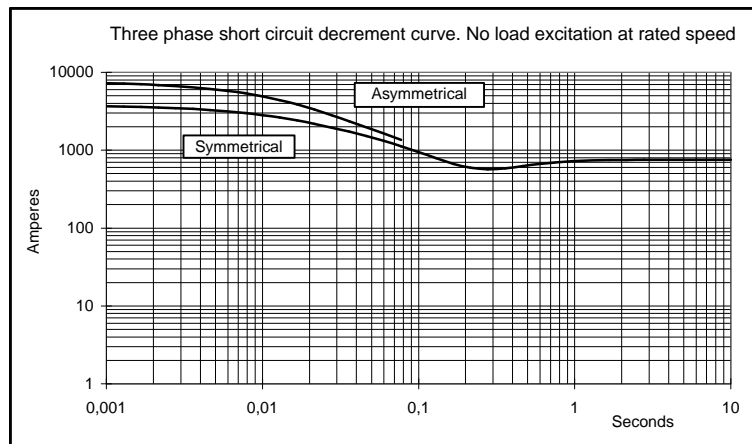
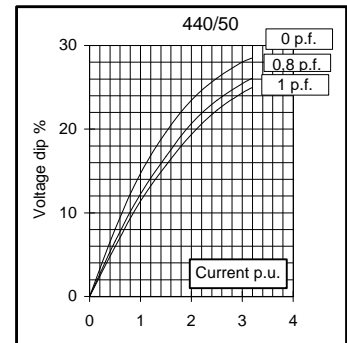
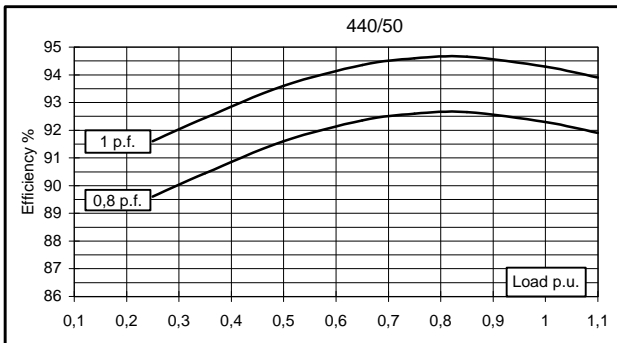
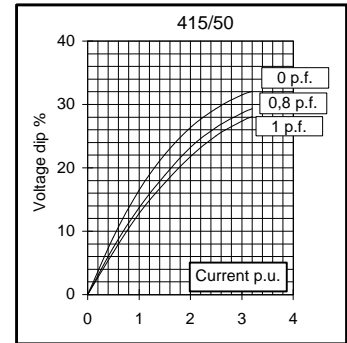
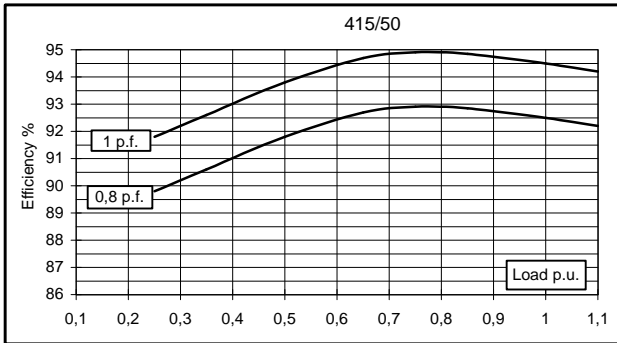
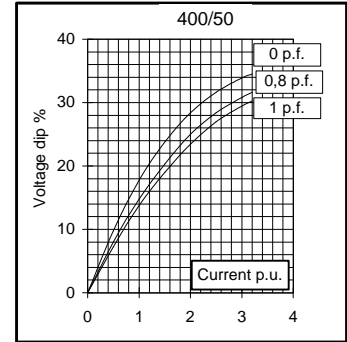
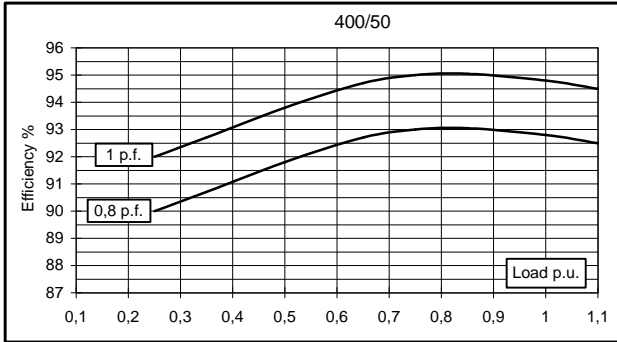
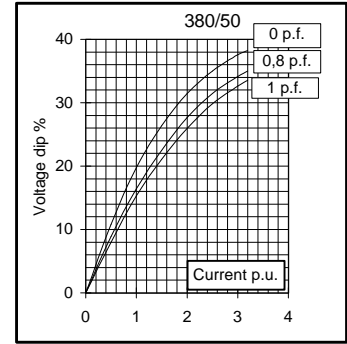
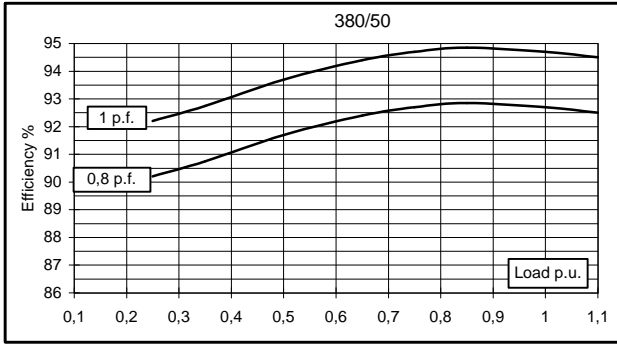
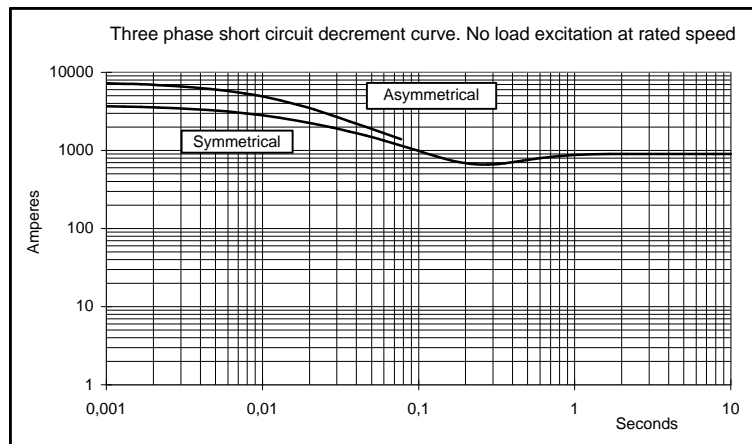
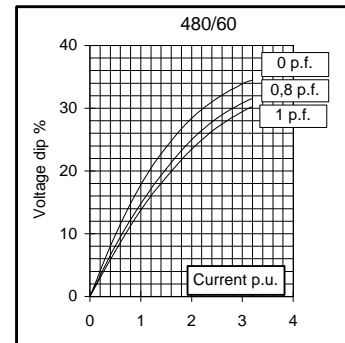
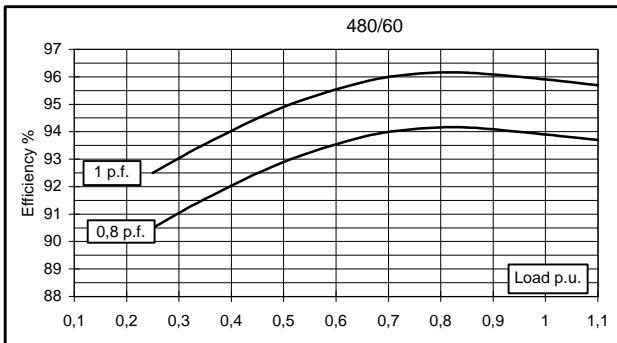
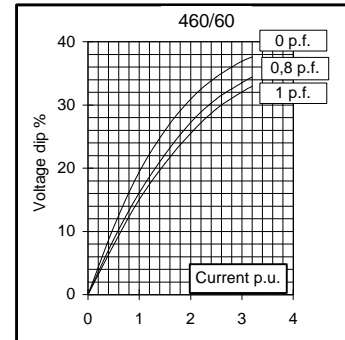
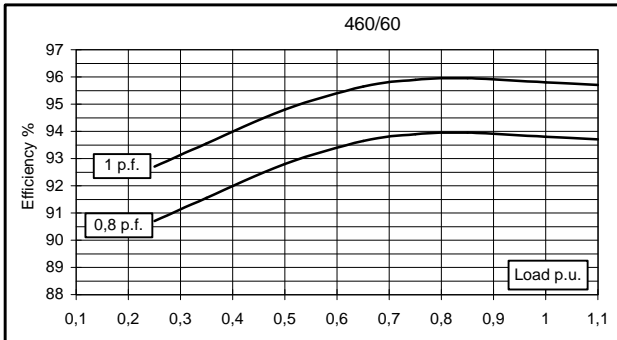
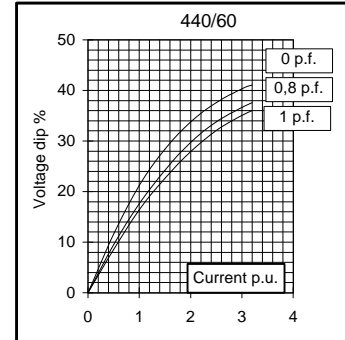
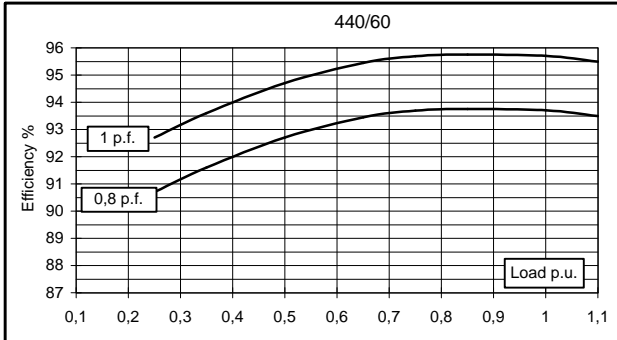
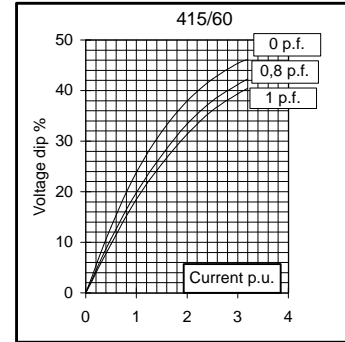
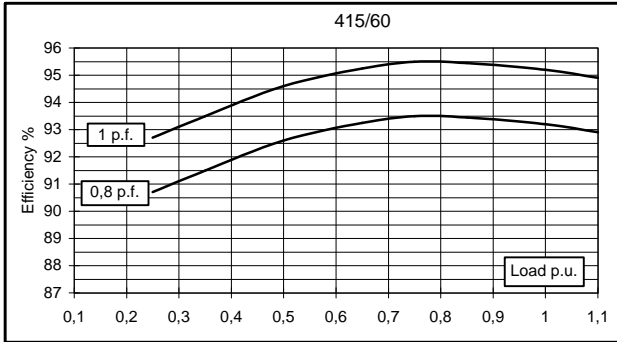


Electrical Characteristics										
Frequency	Hz	50				60				
Voltage (series star)	V	380	400	415	440	415	440	460	480	
Rated power class H	kVA	200	200	200	190	230	240	240	240	
	kW	160	160	160	152	184	192	192	192	
Rated power class F	kVA	185	185	185	175	210	220	220	220	
	kW	148	148	148	140	168	176	176	176	
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	%	92,7	92,8	92,5	92,3	93,2	93,7	93,8	93,9
(see graph. for details)	3/4	%	92,7	93	92,9	92,6	93,5	93,7	93,9	94,1
	2/4	%	91,7	91,8	91,8	91,6	92,6	92,7	92,8	92,9
	1/4	%	90,2	90	89,8	89,6	90,7	90,7	90,7	90,5
Reactances (f. l.cl. F)	Xd	%	232,7	210	195,1	164,9	269,2	249,9	228,7	210
	Xd'	%	12,7	11,5	10,7	9,0	14,7	13,7	12,5	11,5
	Xd''	%	6,9	6,2	5,8	4,9	7,9	7,4	6,8	6,2
	Xq	%	127,4	115	106,8	90,3	147,4	136,9	125,2	115
	Xq'	%	127,4	115	106,8	90,3	147,4	136,9	125,2	115
	Xq''	%	24,9	22,5	20,9	17,7	28,8	26,8	24,5	22,5
	X <sub>2</sub>	%	16,6	15,0	13,9	11,8	19,2	17,9	16,3	15,0
	X <sub>0</sub>	%	2,9	2,6	2,4	2,0	3,3	3,1	2,8	2,6
Short Circuit Ratio	Kcc		0,41	0,44	0,62	1,00	0,30	0,37	0,41	0,44
Time Constants	Td'	sec.	0,080							
	Td''	sec.	0,013							
	Tdo'	sec.	0,95							
	Tα	sec.	0,017							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load	Amp.		0,5	0,7	0,9	1,2	0,3	0,35	0,45	0,65
Excitation at full load	Amp.		2,9	3	3,2	3,4	2,4	2,6	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		0,0113							
Rotor Winding Resistance (20°C)	Ω		3,960							
Exciter Resistance (20 °C)	Ω		Rotor : 0,410				Stator : 15,28			
Heat dissipation at f.l.cl.H	W		12600	12414	12973	12680	13425	12909	12691	12473
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 %		2,7 / 2,6							
Waveform Distors.(THD) at no load	LL/LN %		3 / 2,9							
Mechanical characteristics										
Protection			IP 21 (other protection on request)							
DE bearing			6318.2RS							
NDE bearing			6314.2RS							
Weight of wound stator assembly	kg		182							
Weight of wound rotor assembly	kg		118							
Weight of complete generator	kg		573							
Maximun overspeed	rpm		2250							
Unbalanced magnetic pull at f.l.cl.F	kN/mm		5,2							
Cooling air requirement	m <sup>3</sup> /min		32				39			
Inertia Constant (H)	sec.		0,118				0,141			
Noise level at 1m/7m	dB(A)		82 / 69				86 / 73			

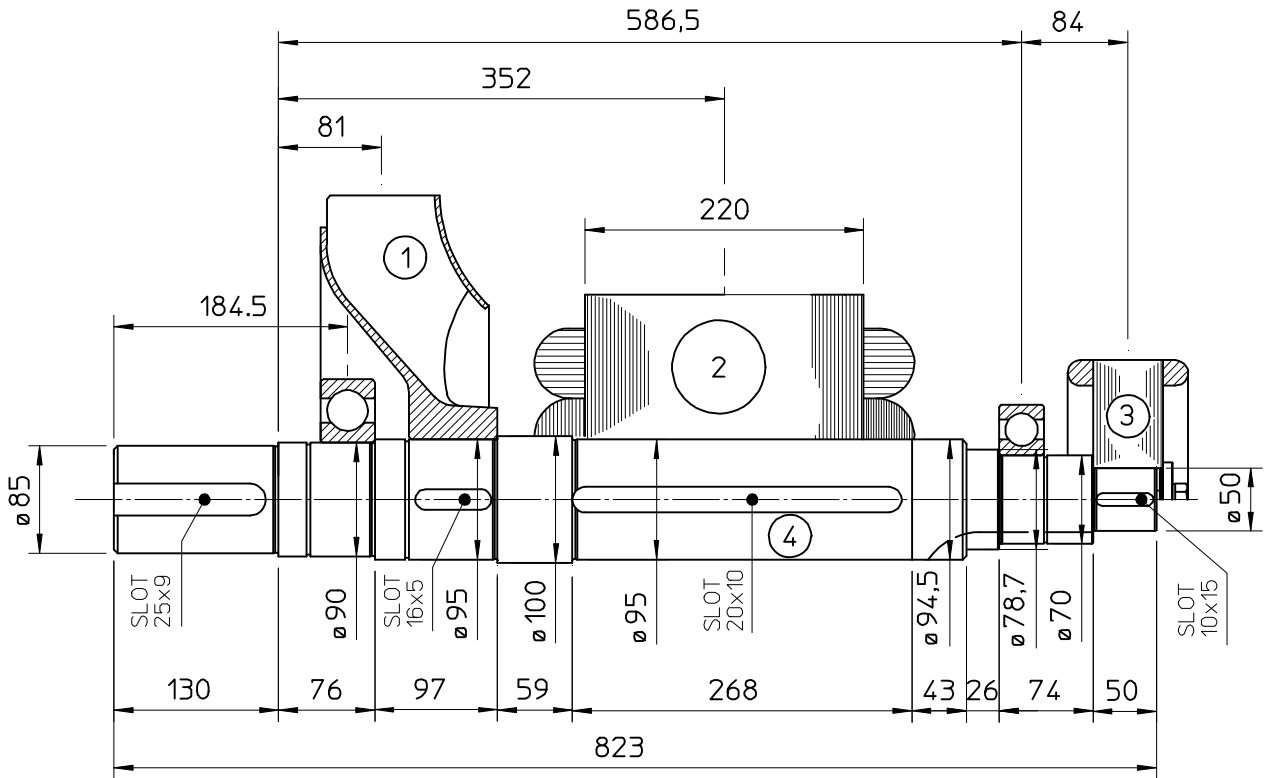
**50 Hz**



**60 Hz**

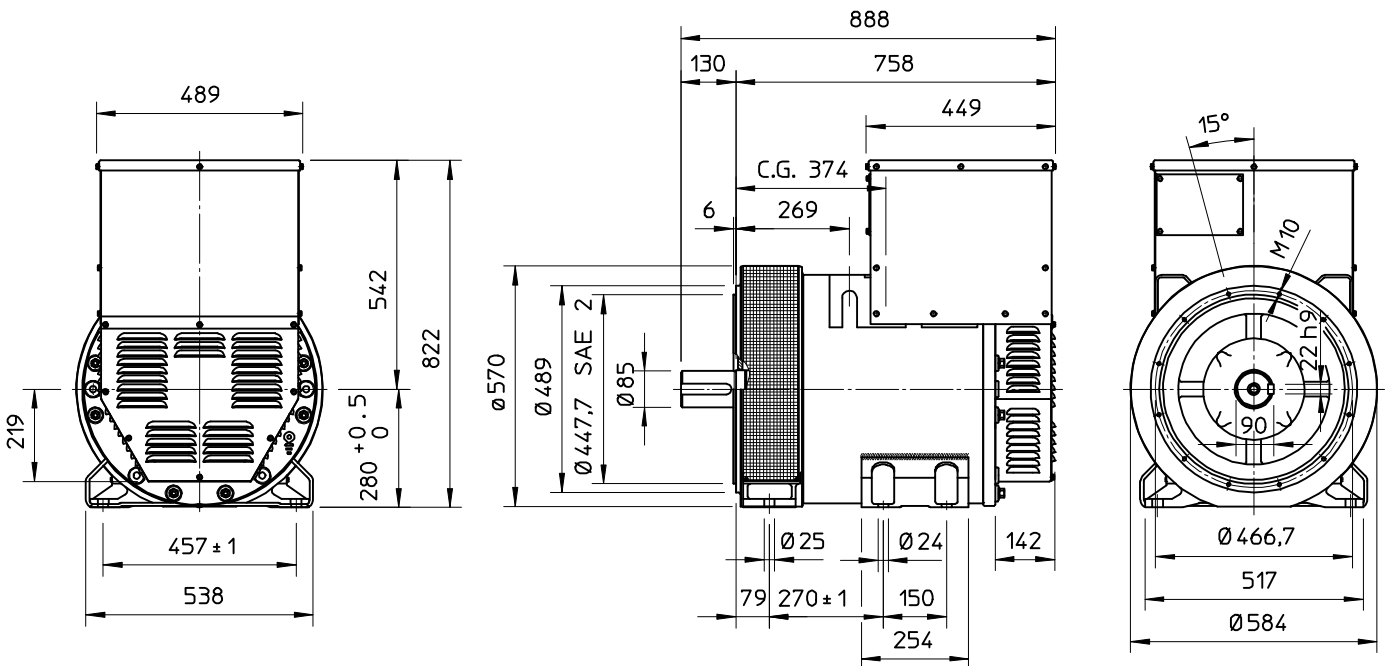


TWO BEARING MOMENTS OF INERTIA



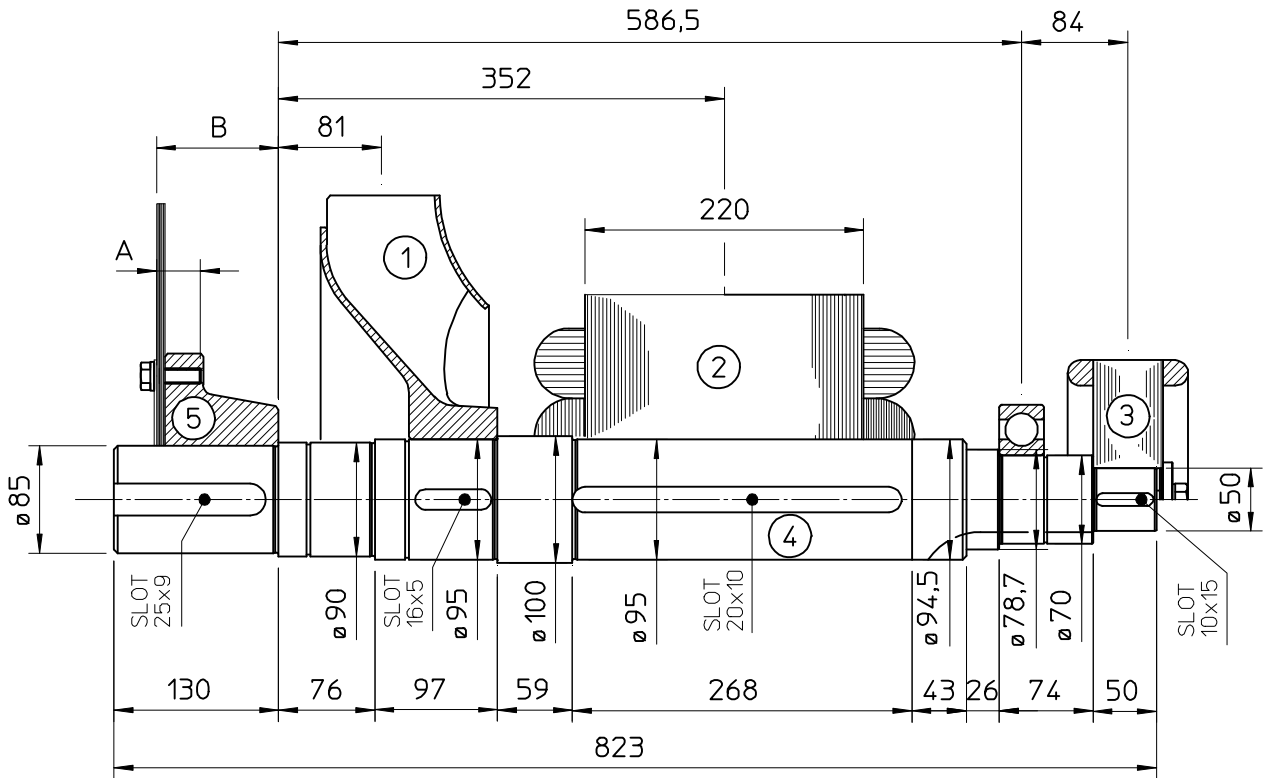
COMPONENT	WEIGHT kg	J kgm <sup>2</sup>
1 FAN	6,1	0,1887
2 MAIN ROTOR	118	1,5878
3 EX. ROTOR	14,5	0,0874
4 SHAFT	38,5	0,0397
TOTAL	177,1	1,9036

TWO BEARING DIMENSIONS



C.G = GRAVITY CENTER

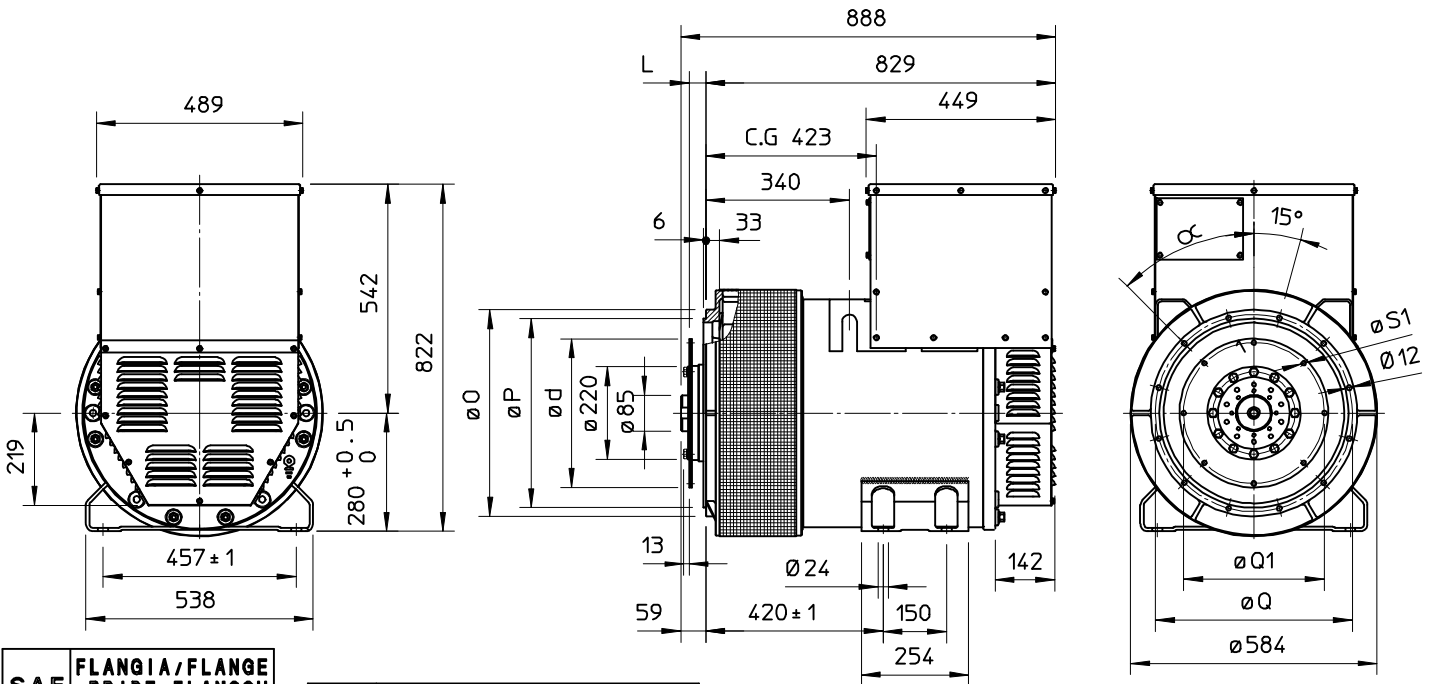
### SINGLE BEARING MOMENTS OF INERTIA



	COMPONENT	WEIGHT kg	J kgm <sup>2</sup>
1	FAN	6,1	0,1887
2	MAIN ROTOR	118	1,5878
3	EX. ROTOR	14,5	0,0874
4	SHAFT	38,5	0,0397
	TOTAL	177,1	1,9036

SAE No	SHAFTS COUPLING FLEX PLATE			
	A	B	WEIGHT kg	J kgm <sup>2</sup>
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