

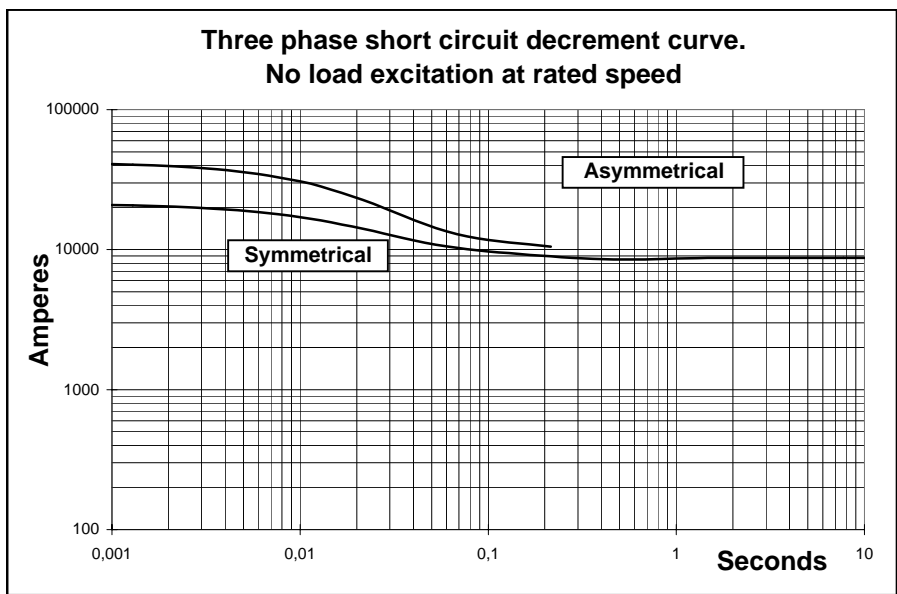
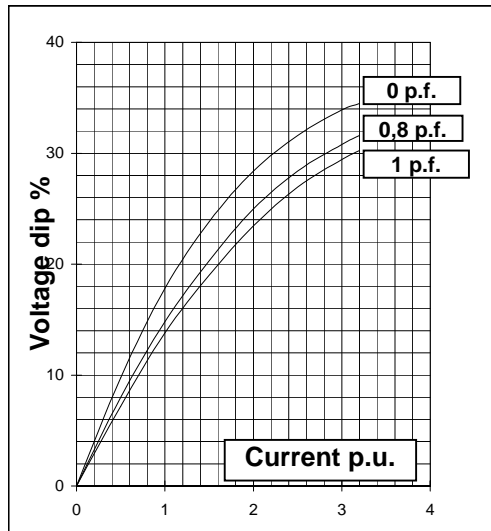
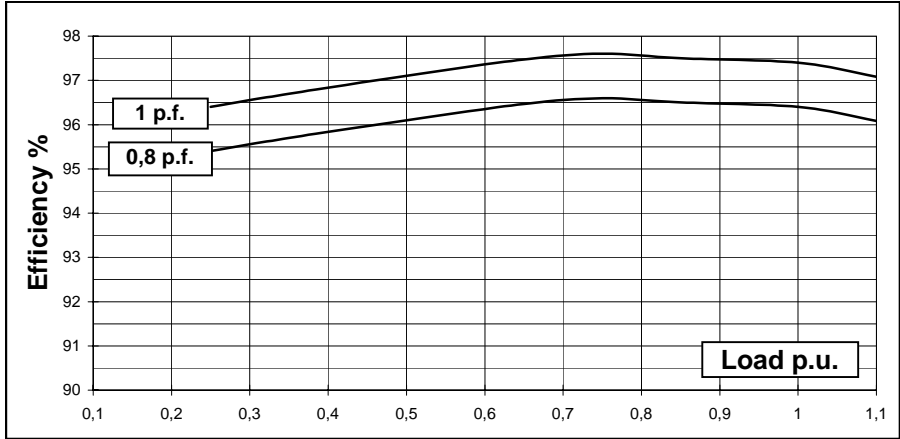
<b>Electrical Characteristics</b>			
Frequency		Hz	60
Voltage (parallel star)		V	380
Rated power class H		kVA	1800
		kW	1440
Rated power class F		kVA	1620
		kW	1296
Rated Stand by power (150°/40°)		kVA	1875
		kW	1500
Regulation with		UVR6	±1% with any power factor and speed variations between -5% +30%
Insulation class			H
Execution			Brushless
Stator winding			12 ends
Rotor			with damping cage
Efficiencies class H (see graph. for details)	4/4	%	96,4
	3/4	%	96,6
	2/4	%	96,1
	1/4	%	95,4
Reactances (f. l.cl. F)	Xd	%	360,0
	Xd'	%	25,4
	Xd''	%	12,8
	Xq	%	165
	Xq'	%	165
	Xq''	%	28,1
	X <sub>2</sub>	%	18,4
	X <sub>0</sub>	%	4,0
	Short Circuit Ratio	Kcc	
Time Constants	Td'	sec.	0,24
	Td''	sec.	0,02
	Tdo'	sec.	9,30
	Tα	sec.	0,025
	Short Circuit Current Capacity		%
Excitation at no load		Amp.	0,65
Excitation at full load		Amp.	2,8
Overload (long-term)		%	1 hour in a 6 hours period 110% rated load
Overload per 20 sec.		%	300
Stator Winding Resistance (20°C)		Ω	0,0026
Rotor Winding Resistance (20°C)		Ω	3,05
Exciter Resistance (20 °C)		Ω	Rotor : 0,120      Stator : 12,90
Heat dissipation at f.l.cl.H		W	53.776
Telephone Interference			FHT < 2%      TIF < 40
Radio interference			EN60034-1. For others standards apply to factory
Waveform Distors.(THD) at f. load	LL/LN %		3 / 2,9
Waveform Distors.(THD) at no load	LL/LN %		2,5 / 2,4
<b>Mechanical characteristics</b>			
Protection			IP 21 (other protection on request )
DE bearing			6330
NDE bearing			6324
Weight of wound stator assembly		kg	1080
Weight of wound rotor assembly		kg	668
Weight of complete generator		kg	2770
Maximun overspeed		rpm	2250
Unbalanced magnetic pull at f.l.cl.F		kN/mm	6,4
Cooling air requirement		m <sup>3</sup> /min	162
Inertia Constant (H)		sec.	0,391
Noise level at 1m/7m		dB(A)	100 / 91

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

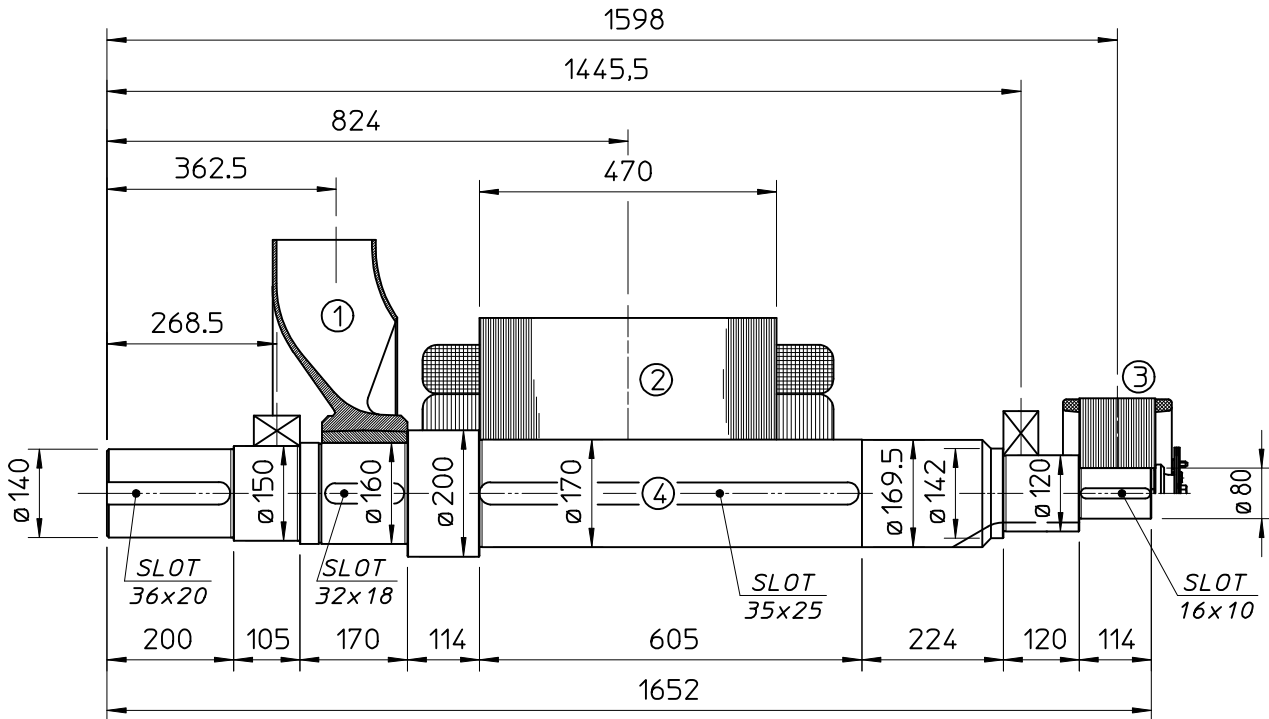
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**380V - 60 Hz**

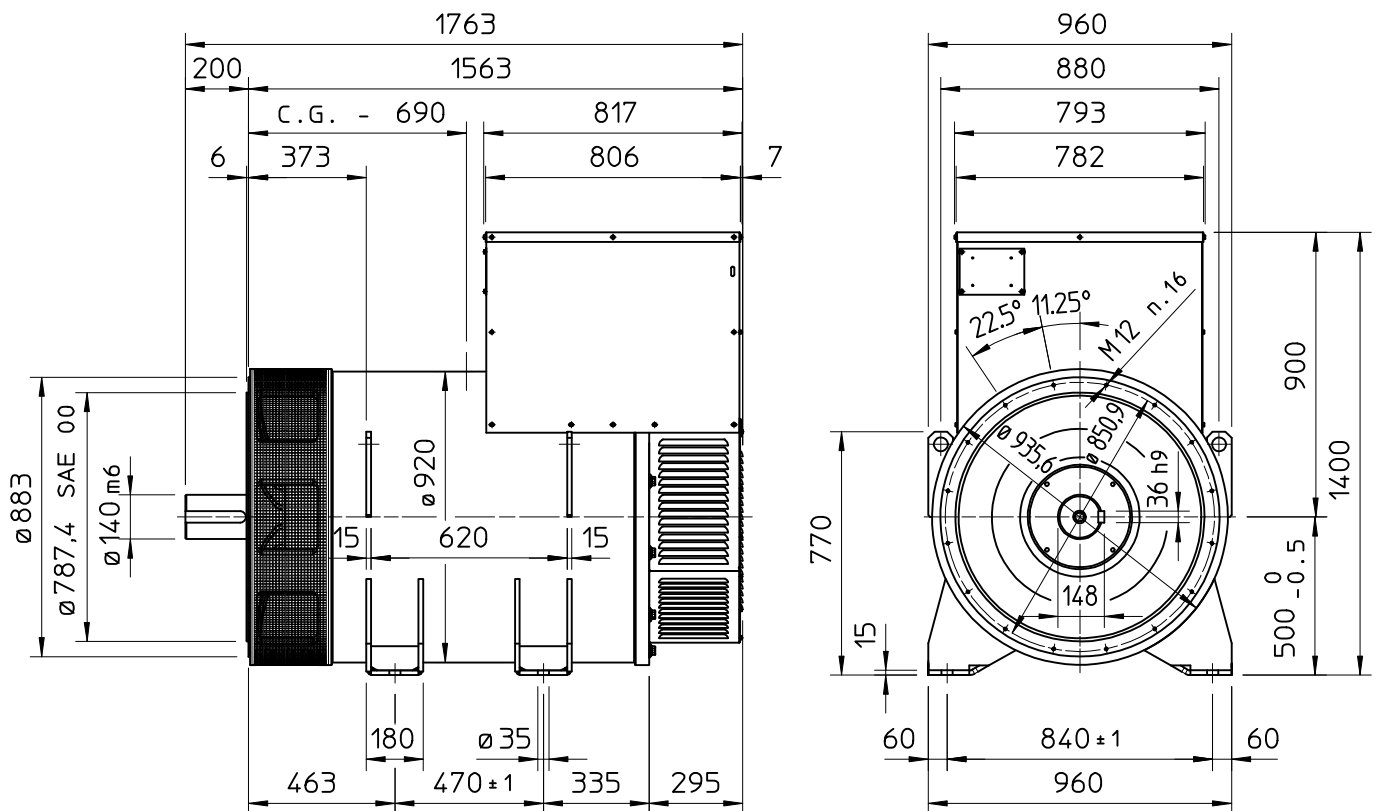


## TWO BEARING MOMENTS OF INERTIA



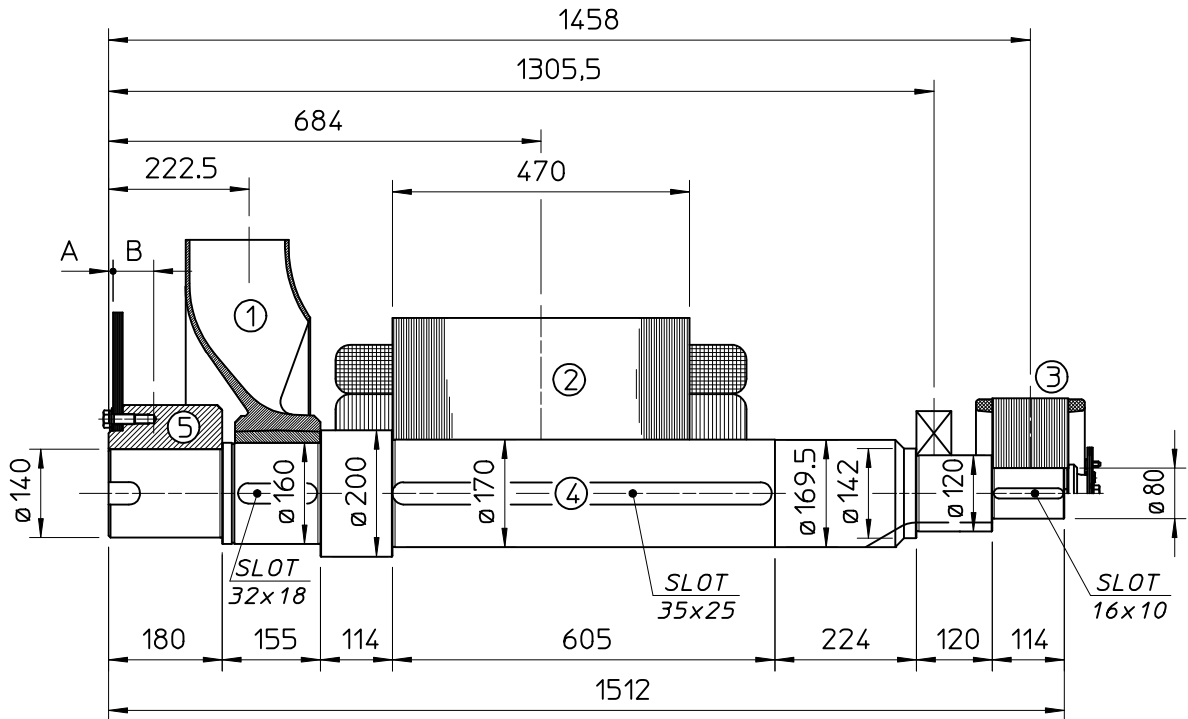
COMPONENT	WEIGHT kg	J kgm <sup>2</sup>
1 FAN	45	3.45
2 MAIN ROTOR	668	34.40
3 EX. ROTOR	60	0.85
4 SHAFT	253	0.82
TOTAL	1026	39.52

## TWO BEARING DIMENSIONS



C.G. = GRAVITY CENTER

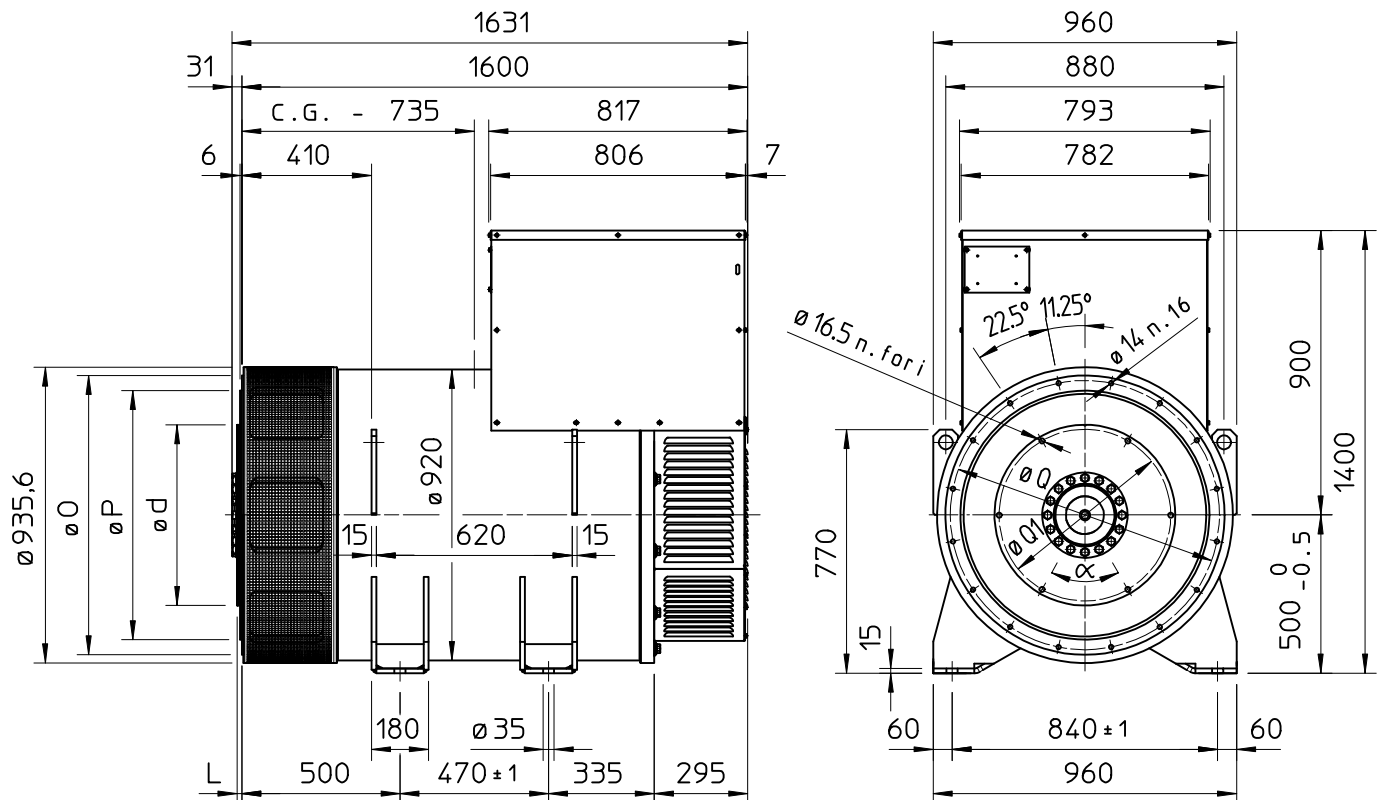
### SINGLE BEARING MOMENTS OF INERTIA



COMPONENT	WEIGHT kg	J kgm <sup>2</sup>
1 FAN	45	3.45
2 MAIN ROTOR	668	34.40
3 EX. ROTOR	60	0.85
4 SHAFT	232	0.82
TOTAL	1005	39.52

COMPONENT	SAE N°	A	B	WEIGHT kg	J kgm <sup>2</sup>
5 SHAFTS COUPLING FLEX PLATE	18	7.3	63.2	86	1.958
	21	23	54	99	3.484

### SINGLE BEARING DIMENSIONS



SAE N.	FLANGE		
	0	P	Q
00	883	787,4	850,9
0	711	647,7	679,5

SAE N.	DISC COUPLING				
	d	L	Q1	N.FORI	α
18	571,5	15,7	542,92	6	60°
21	673,1	0	641,35	12	30°

C.G. = GRAVITY CENTER