

ژنراتور : Meccalte

موتور دیزل : Benz OM355A

آماده به کار (Standby) ^۲		کارکرد مداوم (Contiunous) ^۱		دیزل ژنراتور
KVA ^۴	kw	KVA ^۴	kw	
200	160	170	140	



۱ - قدرت مداوم طبق دین A 6270

۲ - قدرت استندبای فقط برای ۳۰۰ ساعت در سال قابل استفاده است.

۳ - برای مورد ۱ فقط ۱۰٪ افزایش قدرت به مدت یک ساعت در هر ۱۲ ساعت مجاز است.

۴ - قدرت ارائه شده در جدول در شرایط زیر محاسبه گردیده است:

- درجه هوای ورودی ۲۰ درجه سانتی گراد

- رطوبت نسبی ۶۰٪

- ارتفاع محلی ۳۰۰ متر بالای سطح دریا

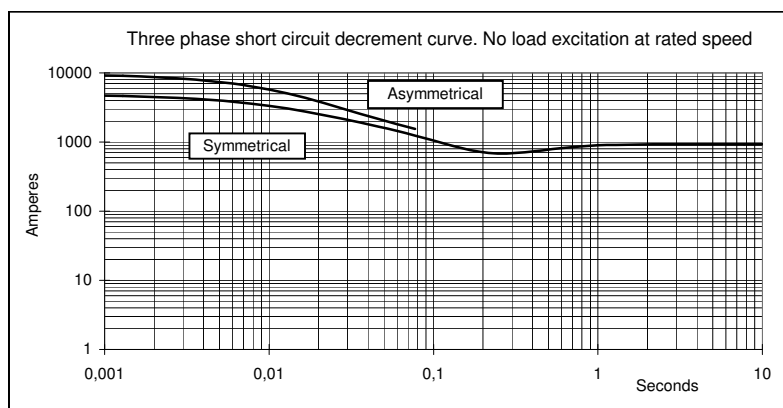
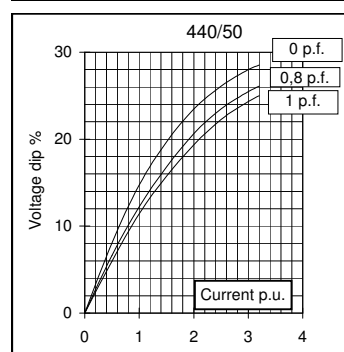
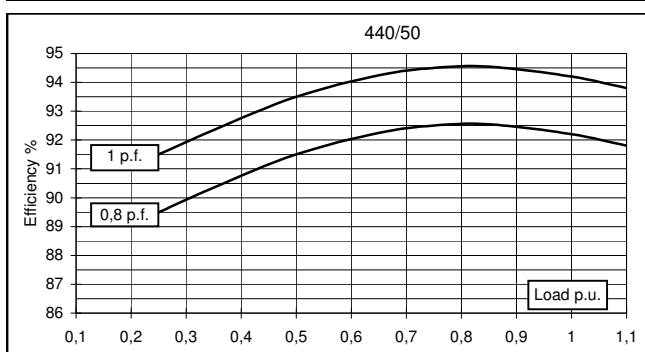
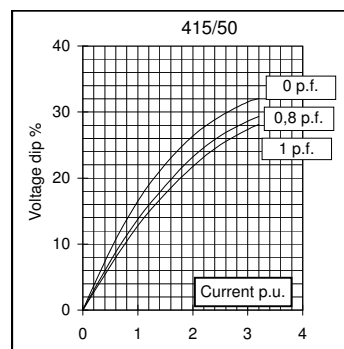
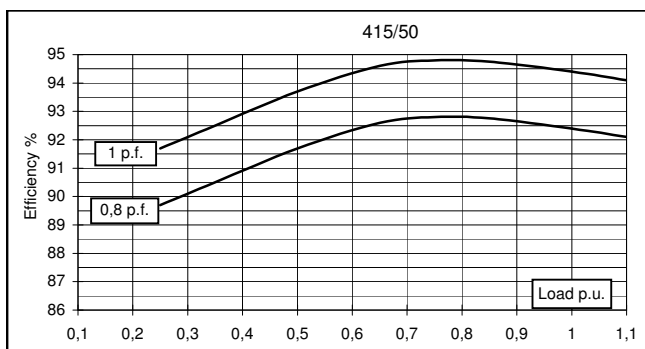
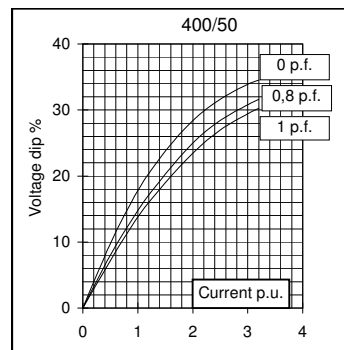
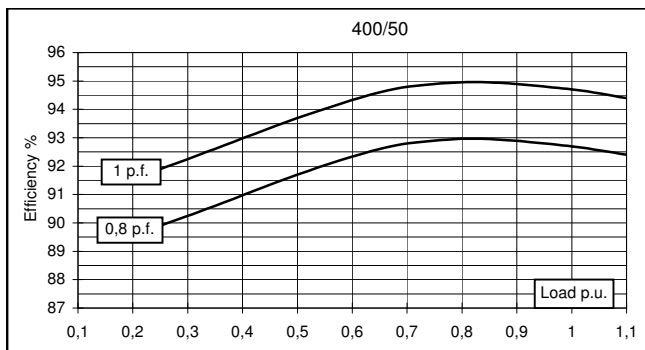
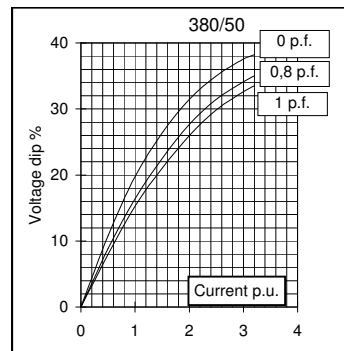
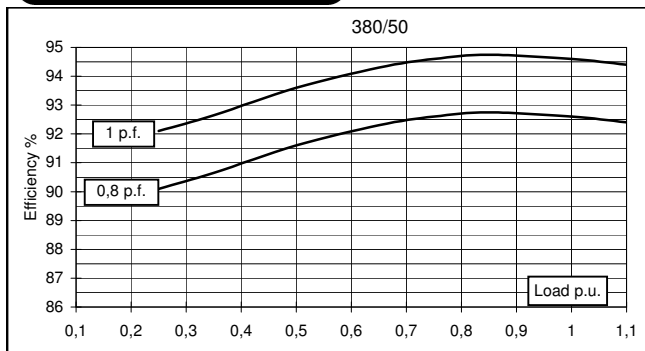
- فاکتور قدرت ۰,۸ در نظر گرفته شده است.

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 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	%	92,6	92,7	92,4	92,2	93,1	93,6	93,7	93,8
(see graph. for details)	3/4	%	92,6	92,9	92,8	92,5	93,4	93,6	93,8	94
	2/4	%	91,6	91,7	91,7	91,5	92,5	92,6	92,7	92,8
	1/4	%	90,1	89,9	89,7	89,5	90,6	90,6	90,6	90,4
Reactances (f. l.cl. F)	Xd	%	221,6	200	185,8	157,0	256,4	238,0	217,8	200
	Xd'	%	12,2	11,0	10,2	8,6	14,1	13,1	12,0	11,0
	Xd''	%	6,5	5,9	5,5	4,6	7,6	7,0	6,4	5,9
	Xq	%	121,9	110	102,2	86,4	141,0	130,9	119,8	110
	Xq'	%	121,9	110	102,2	86,4	141,0	130,9	119,8	110
	Xq''	%	23,8	21,5	20,0	16,9	27,6	25,6	23,4	21,5
	X ₂	%	15,8	14,3	13,3	11,2	18,3	17,0	15,6	14,3
	X ₀	%	2,8	2,5	2,3	2,0	3,2	3,0	2,7	2,5
Short Circuit Ratio	Kcc		0,43	0,46	0,64	1,02	0,32	0,39	0,43	0,46
Time Constants	Td'	sec.	0,078							
	Td''	sec.	0,012							
	Tdo'	sec.	0,90							
	Tα	sec.	0,016							
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	0,0105								
Rotor Winding Resistance (20 °C)	Ω	4,133								
Exciter Resistance (20 °C)	Ω	Rotor : 0,685				Stator : 15,28				
Heat dissipation at f.l.cl.H	W	12786	12600	13160	12859	13637	13128	12909	12691	
Telephone Interference		THF < 2%					TIF < 40			
Radio interference		EN61000-6-3, EN61000-6-2. 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	174								
Weight of wound rotor assembly	kg	113								
Weight of complete generator	kg	560								
Maximun overspeed	rpm	2250								
Unbalanced magnetic pull at f.l.cl.F	kN/mm	5,2								
Cooling air requirement	m³/min	32					39			
Inertia Constant (H)	sec.	0,116					0,140			
Noise level at 1m/7m	dB(A)	82 / 69					86 / 73			

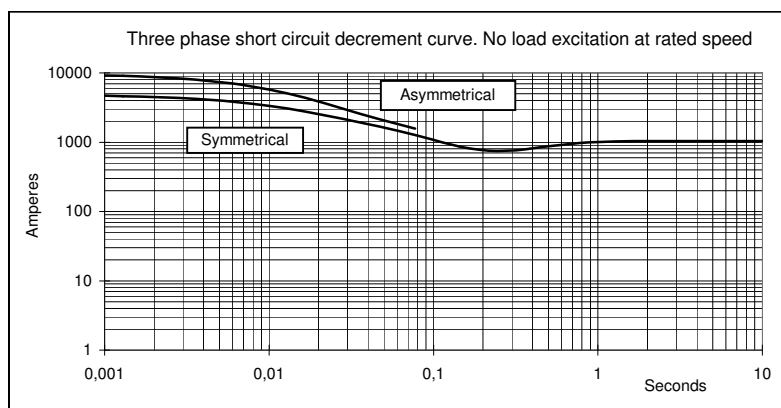
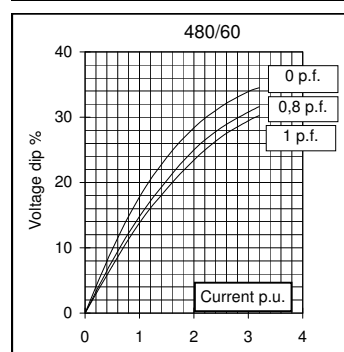
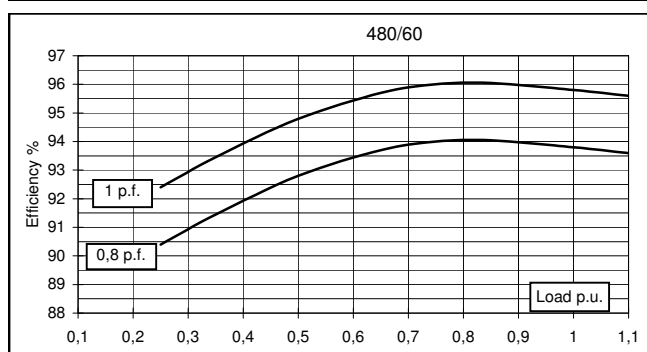
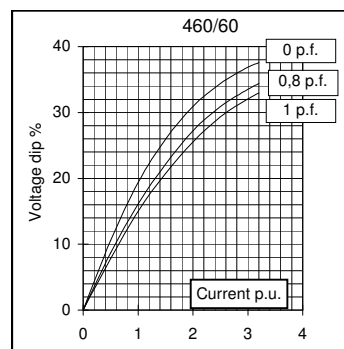
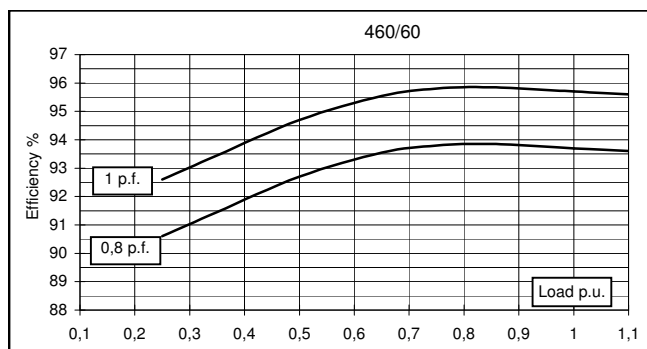
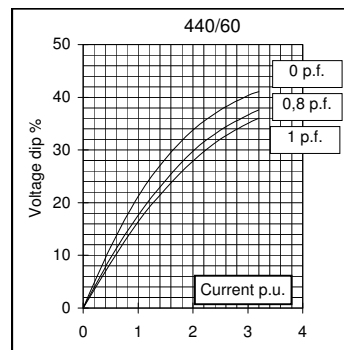
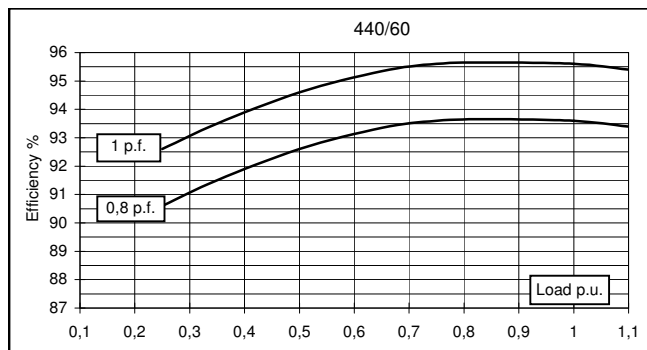
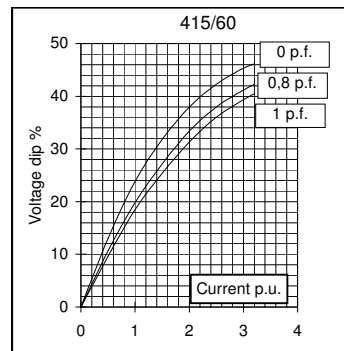
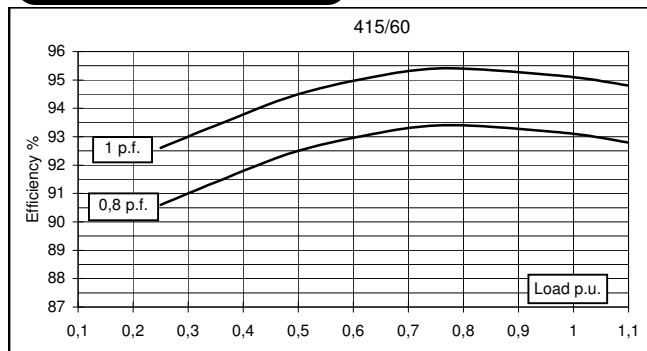
All technical data are to be considered as a reference and they can be modified without any notice

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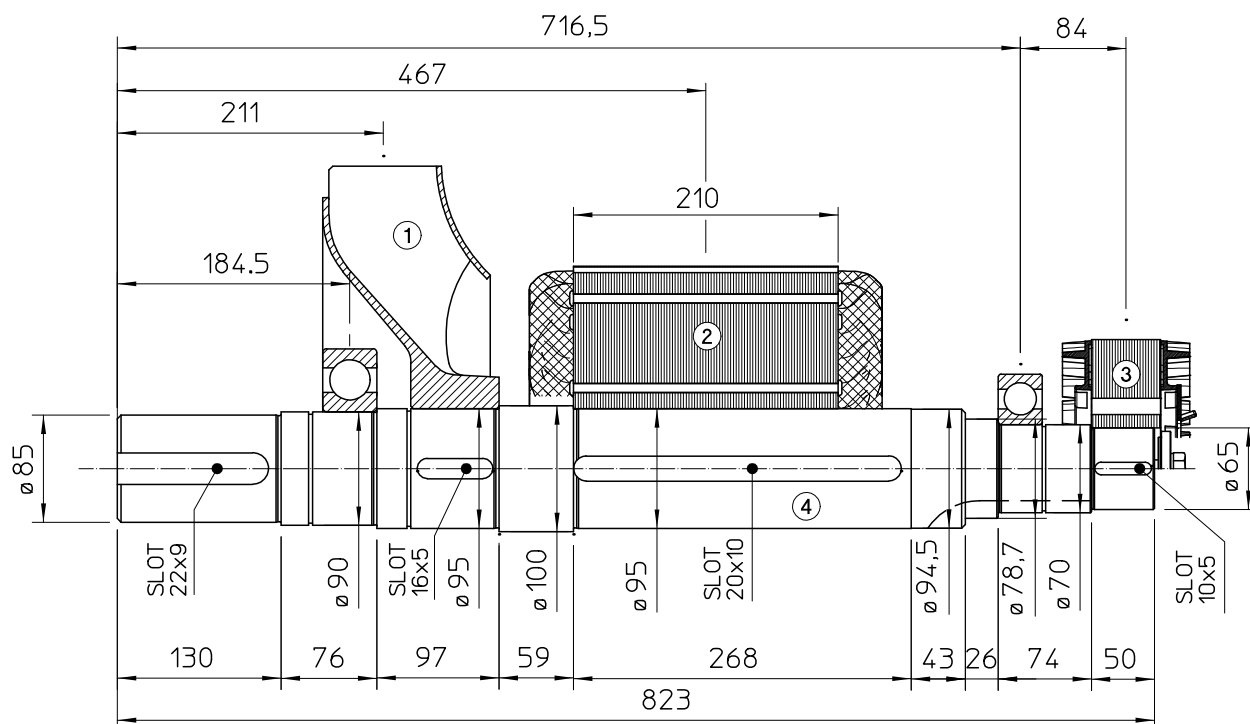
50 Hz



60 Hz

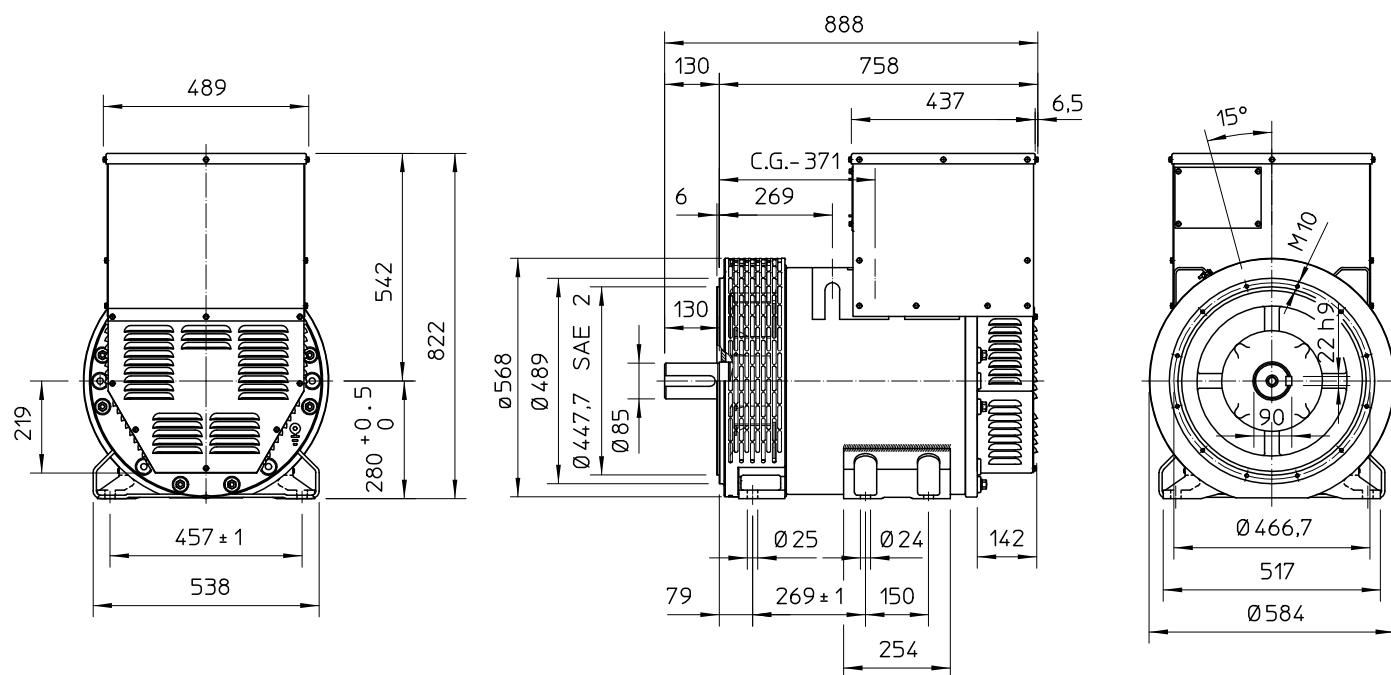


TWO BEARING MOMENTS OF INERTIA



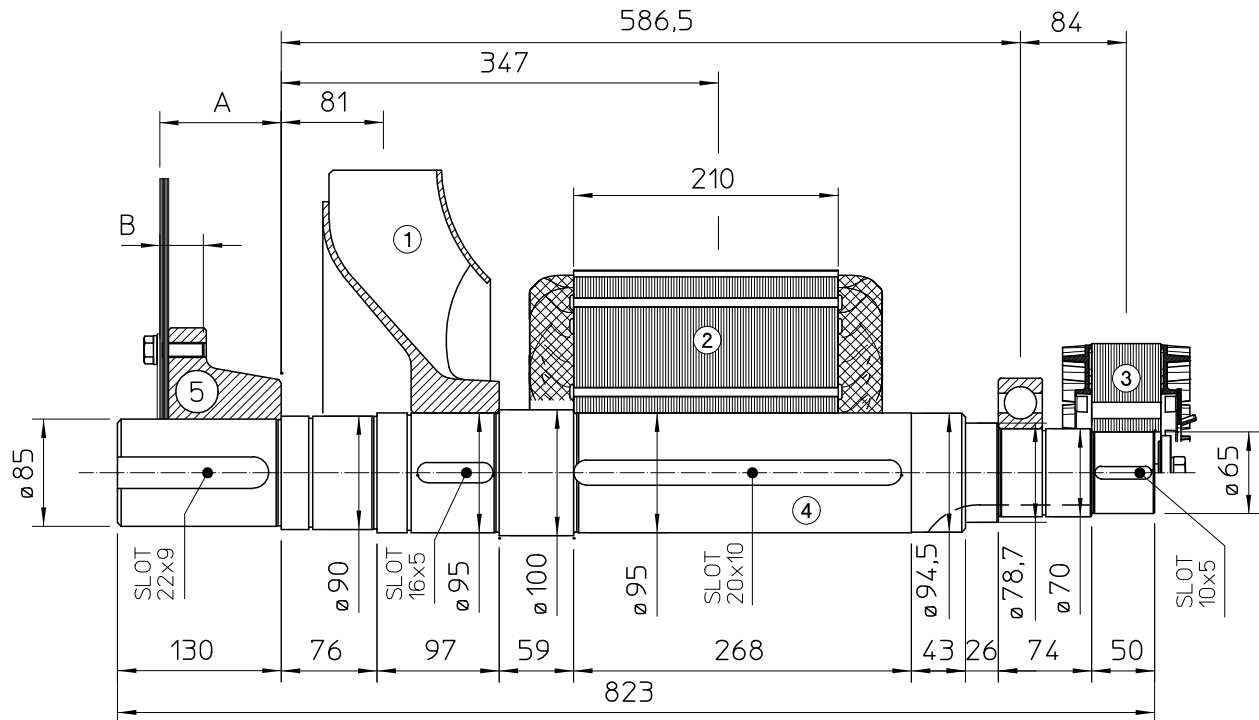
POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	6.1	0.1887
2	MAIN ROTOR	113	1.5641
3	EX. ROTOR	14.5	0.0874
4	SHAFT	38.5	0.0397
TOTAL		172.1	1.8799

TWO BEARING DIMENSIONS



C.G.= GRAVITY CENTER

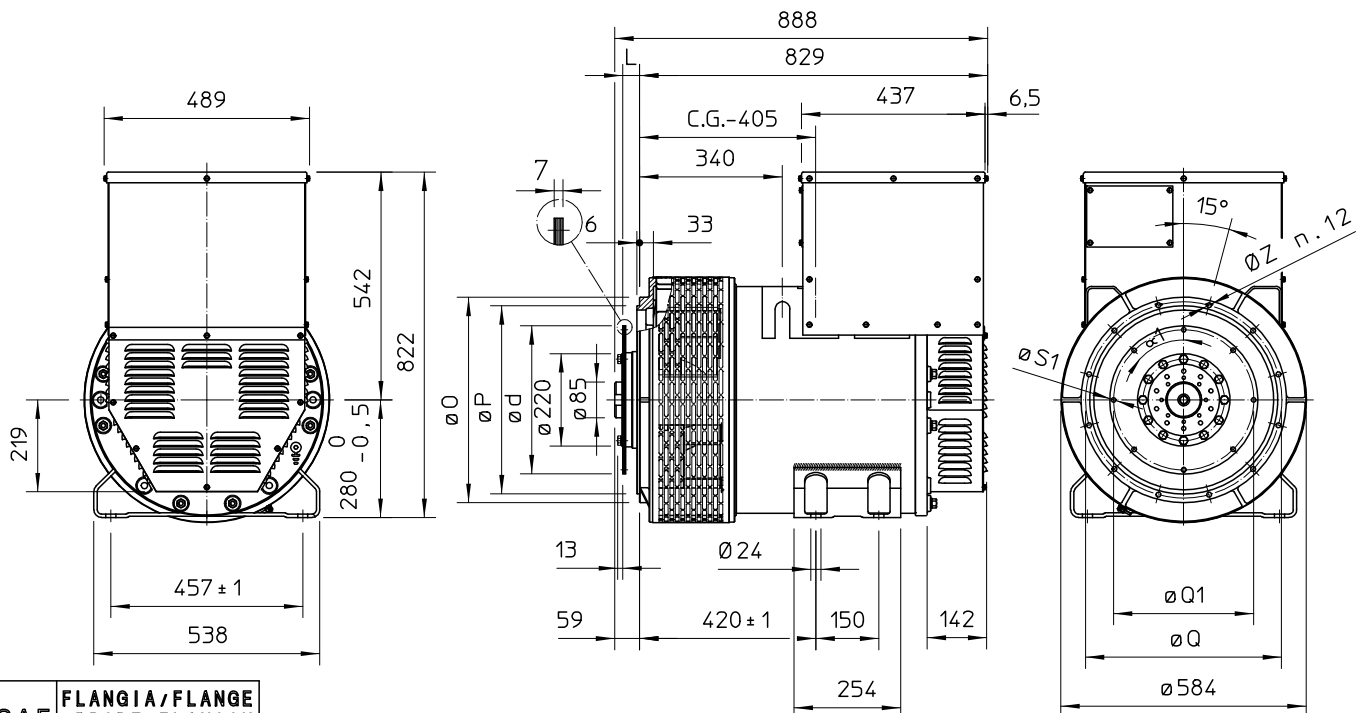
SINGLE BEARING MOMENTS OF INERTIA



POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	6.1	0.1887
2	MAIN ROTOR	113	1.5641
3	EX. ROTOR	14.5	0.0874
4	SHAFT	38.5	0.0397
TOTAL		172.1	1.8799

SAE N°	5	SHAFTS COUPLING FLEX PLATE			
	A	B	WEIGHT kg	J kgm ²	
11.5	110.4	41.1	20.5	0.174	
14	96.4	34.7	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
11 1/2	39,6	352,42	333,37	8	11
14	25,4	466,72	438,15	8	14

C.G.= GRAVITY CENTER