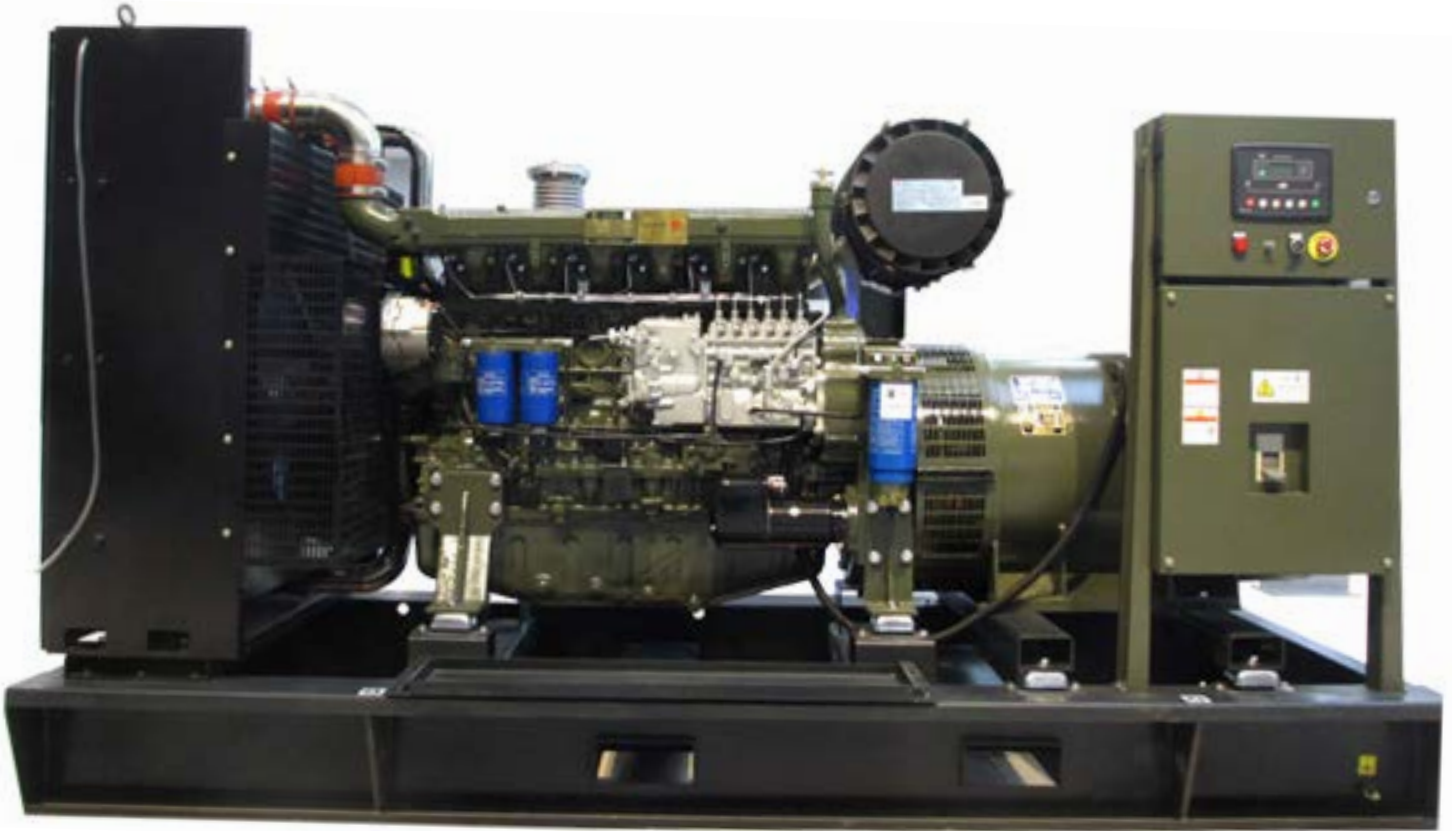


Mecc Alte : ژنراتور

Deutz : موتور دیزل

Standby		Prime		دیزل ژنراتور
KVA	KW	KVA	KW	
346	277	315	252	



موتور دیزل

Manufacturer	Deutz	تولید کننده
Type	WP12D317E200	تیپ
Number of cylinders	6	تعداد سیلندر ها
Cylinder arrangement	in-line	آرایش سیلندر ها
Cycle	4 stroke	چرخه
Aspiration	Turbo charged	سیستم تنفس
Bore × Stroke , mm	105X120	قطر سیلندر × کورس پیستون
Displacement , Liters	4	جا به جایی
Speed Governor	Mechanical/Electronic	سرعت گاورنر
Cooling System	water-cooled	سیستم فنک کننده
Frequency	50Hz	فرکانس
Starter Motor	24V	استارتر موتور

ژنراتور

Manufacturer	Mecc Alte	تولید کننده
Type	ECO _{38-2L}	تیپ
Exciter type	Brushless	نوع کانتر
Power factor	0.8	ضریب قدرت
Voltage	400-230	ولتاژ
Frequency	50 Hz	فرکانس
Speed, Rpm	1500	سرعت
Insulation class	H	کلاس عایق
Protection class	IP ₂₃	کلاس حفاظتی
Excitation	Brushless	سیستم تمریک

50Hz

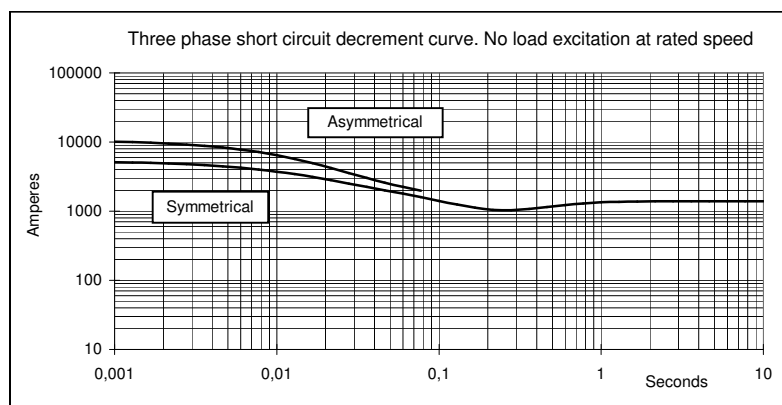
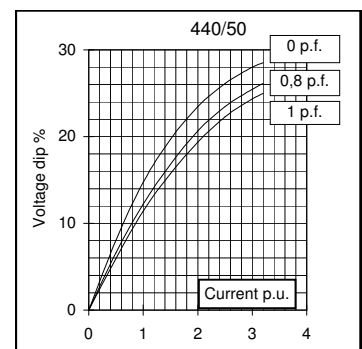
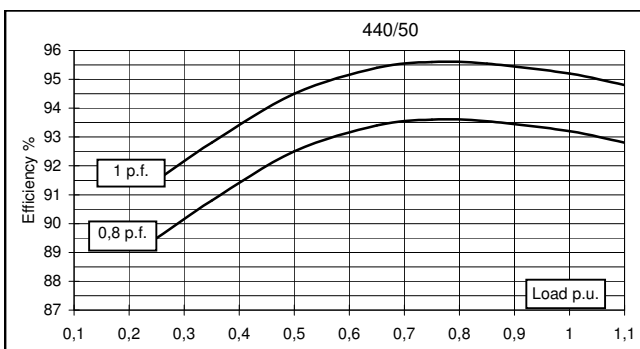
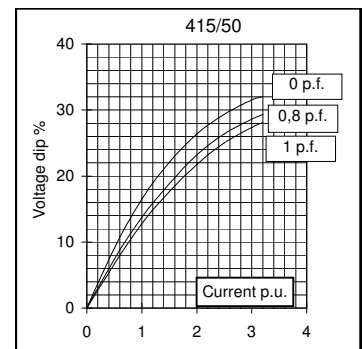
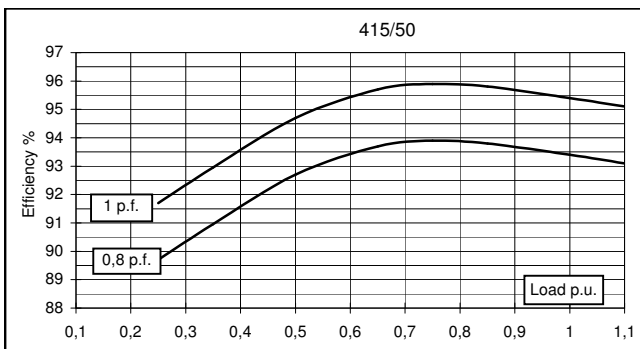
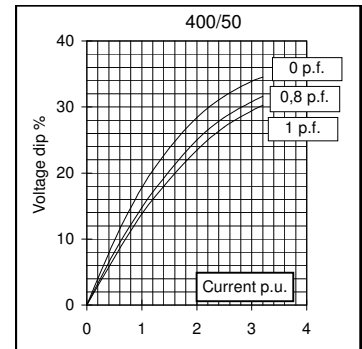
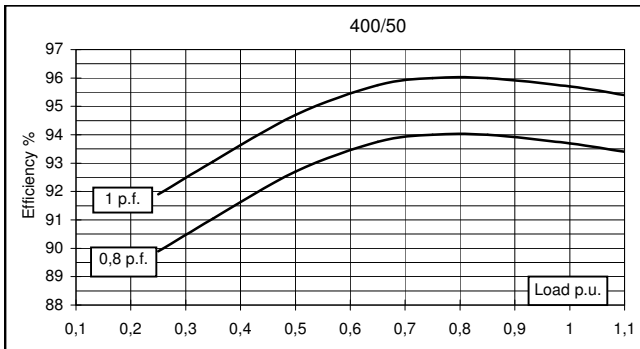
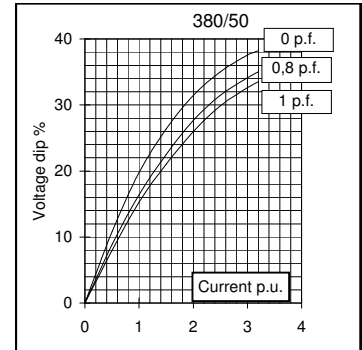
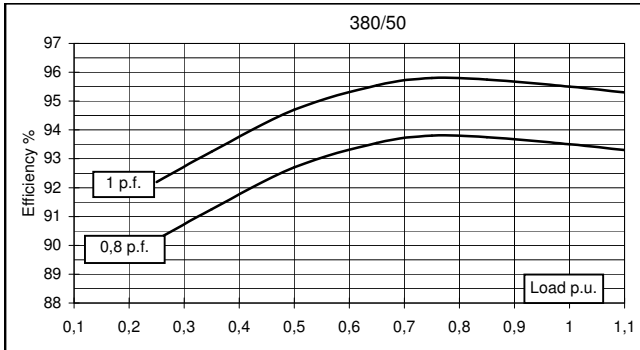
Models	Engine Model	Prime kW	Standby kW	Displacement L	Aspiration	Gen-set Power kW/KVA
WP2.1-WP4.3	WP2.1D18E2	17.5	19	2.1	NA	12/15
	WP2.5D22E2	22	24	2.5	NA	16/24
	WP3.9D33E2	33.3	37	3.9	NA	24/30
	WP4.3D38E2	38	42	4.3	NA	30/38
	WP4.1D50E2	50	55	4.1	NA	40/50
WP4/WP6	D226B-3D	30	33	3.1	NA	24/30
	TD226B-3D	45	50	3.1	T	30/38
	WP4D66E200	60	66	4.5	T	50/63
	WP4D100E200	90	100	4.5	TA	75/94
	WP6D132E200	120	132	6.8	TA	100/125
	WP6D152E200	138	152	6.8	TA	120/150
WP10/WP12/WP13	WP10D200E200	182	200	9.7	TA	150/188
	WP10D238E200	216	238	9.7	TA	180/225
	WP10D264E200	240	264	9.7	TA	200/250
	WP12D317E200	288	317	11.6	TA	250/313
	WP13D385E200	350	385	12.5	TA	300/375
M26	6M26D484E200	440	484	15.9	TA	400/500
	12M26D968E200	880	968	31.8	TA	800/1000

Electrical Characteristics										
Frequency		Hz	50				60			
Voltage (series star)		V	380	400	415	440	415	440	460	480
Rated power class H		kVA	300	300	300	290	325	340	360	360
		kW	240	240	240	232	260	272	288	288
Rated power class F		kVA	275	275	275	265	300	310	330	330
		kW	220	220	220	212	240	248	264	264
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	%	93,5	93,7	93,4	93,2	94	94,5	94,6	94,7
(see graph. for details)	3/4	%	93,8	94	93,9	93,6	94,5	94,7	94,9	95,1
	2/4	%	92,7	92,7	92,7	92,5	93,6	93,7	93,8	93,9
	1/4	%	90,2	89,9	89,7	89,5	90,6	90,6	90,6	90,4
Reactances (f. l.cl. F)	Xd	%	230,5	208	193,2	166,2	251,2	233,8	226,5	208
	Xd'	%	17,0	15,3	14,2	12,2	18,5	17,2	16,7	15,3
	Xd''	%	9,0	8,1	7,5	6,5	9,8	9,1	8,8	8,1
	Xq	%	133,0	120	111,5	95,9	144,9	134,9	130,7	120
	Xq'	%	133,0	120	111,5	95,9	144,9	134,9	130,7	120
	Xq''	%	23,0	20,8	19,3	16,6	25,1	23,4	22,6	20,8
	X ₂	%	17,8	16,1	15,0	12,9	19,4	18,1	17,5	16,1
	X ₀	%	2,5	2,3	2,1	1,8	2,8	2,6	2,5	2,3
Short Circuit Ratio	Kcc		0,39	0,43	0,62	0,97	0,32	0,38	0,40	0,43
Time Constants	Td'	sec.	0,091							
	Td''	sec.	0,0125							
	Tdo'	sec.	1,40							
	Tα	sec.	0,016							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load	Amp.		0,65	0,78	0,95	1,2	0,4	0,5	0,6	0,7
Excitation at full load	Amp.		3,8	3,9	4	4,2	3,2	3,6	3,7	3,8
Overload (long-term)	%	1 hour in a 6 hours period 110% rated load								
Overload per 20 sec.	%	300								
Stator Winding Resistance (20 °C)	Ω	0,0055								
Rotor Winding Resistance (20 °C)	Ω	5,604								
Exciter Resistance (20 °C)	Ω	Rotor : 0,685				Stator : 15,28				
Heat dissipation at f.l.cl.H	W	16684	16137	16959	16927	16596	15831	16440	16118	
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 %	3 / 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	258								
Weight of wound rotor assembly	kg	181								
Weight of complete generator	kg	765								
Maximun overspeed	rpm	2250								
Unbalanced magnetic pull at f.l.cl.F	kN/mm	5,9								
Cooling air requirement	m³/min	32				39				
Inertia Constant (H)	sec.	0,117				0,140				
Noise level at 1m/7m	dB(A)	82 / 69				86 / 73				

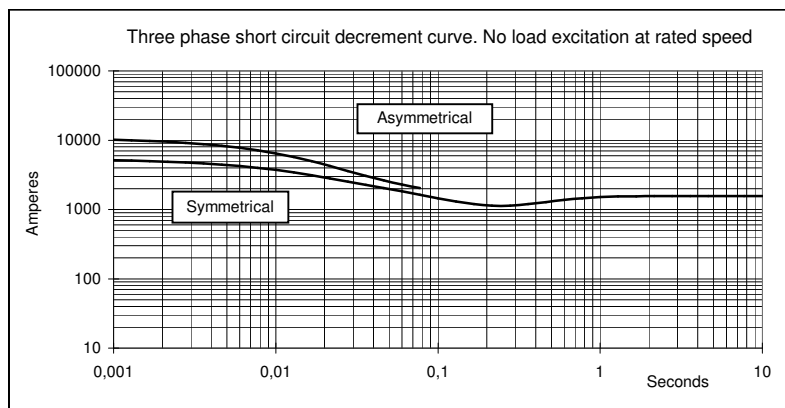
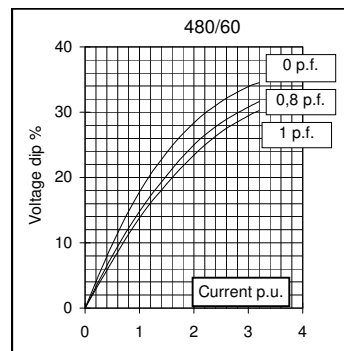
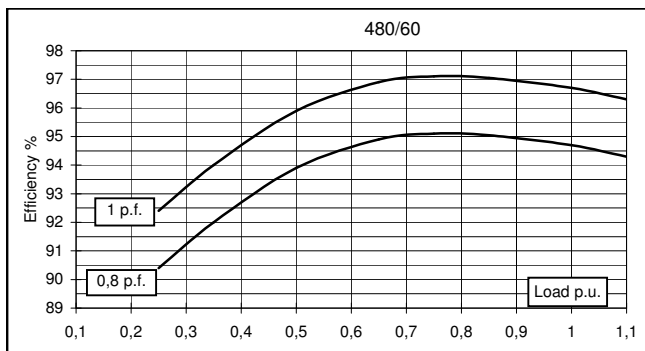
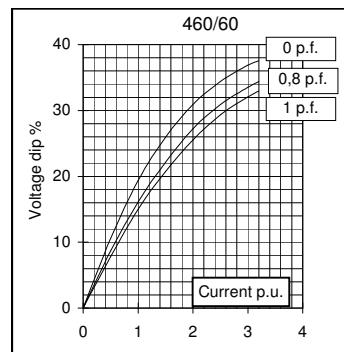
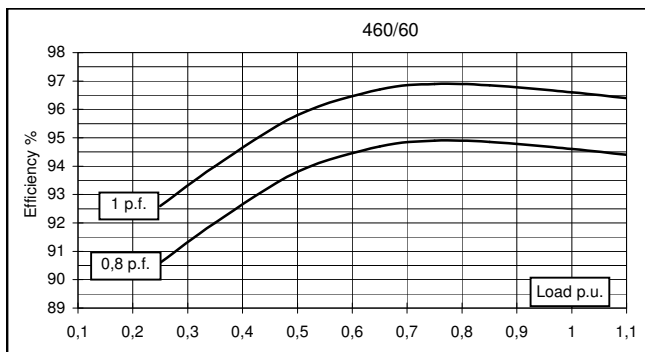
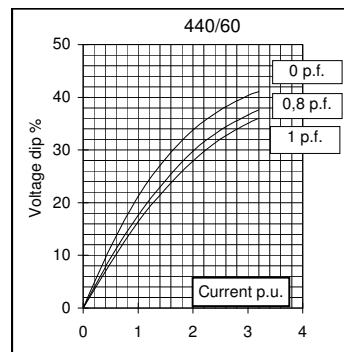
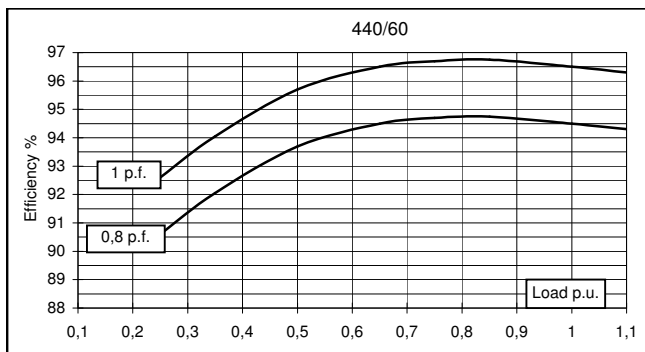
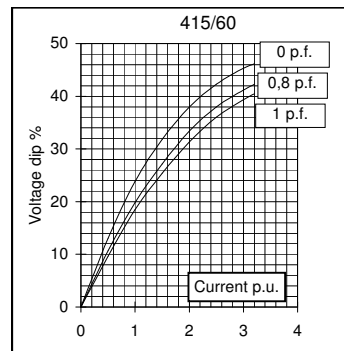
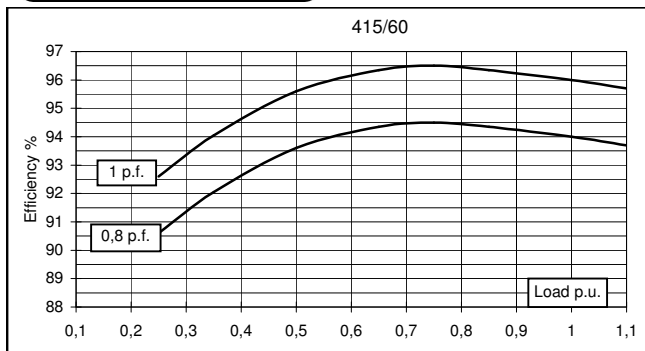
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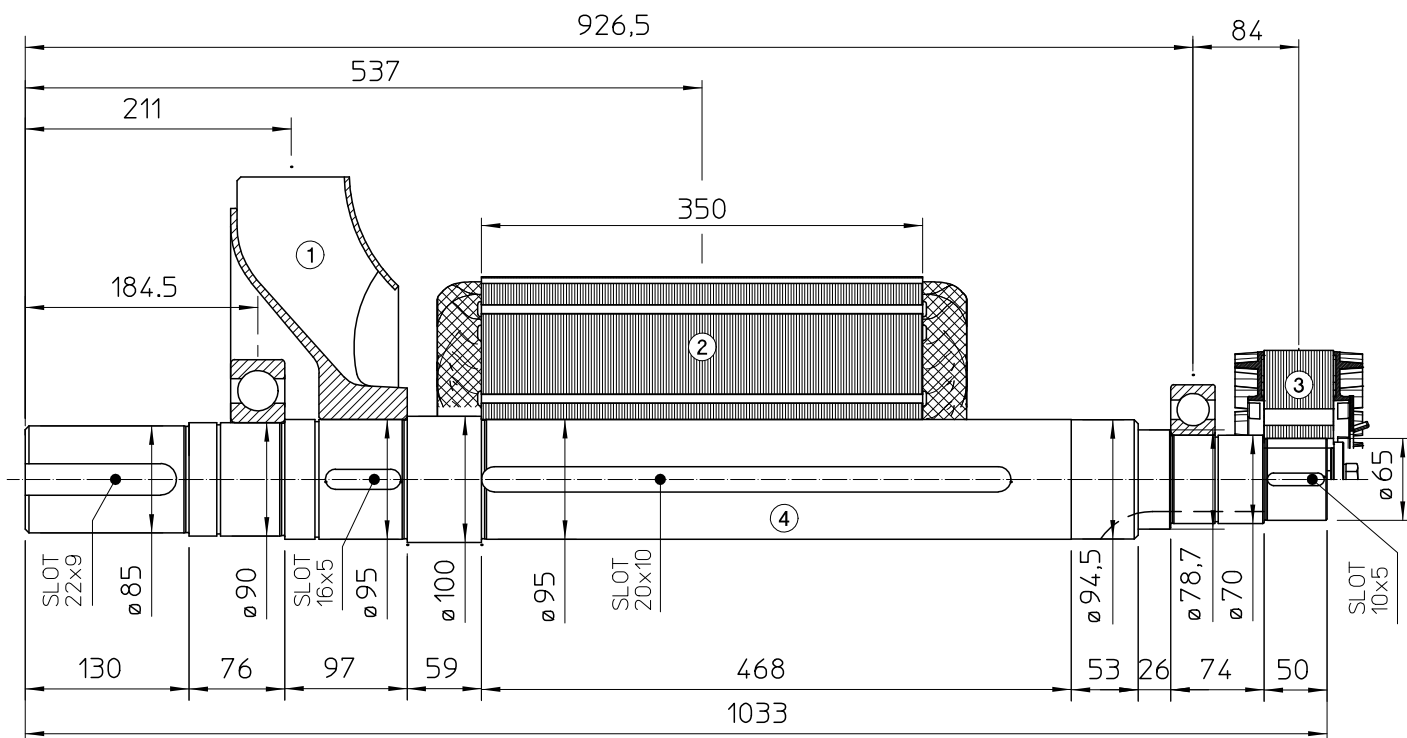
50 Hz



60 Hz

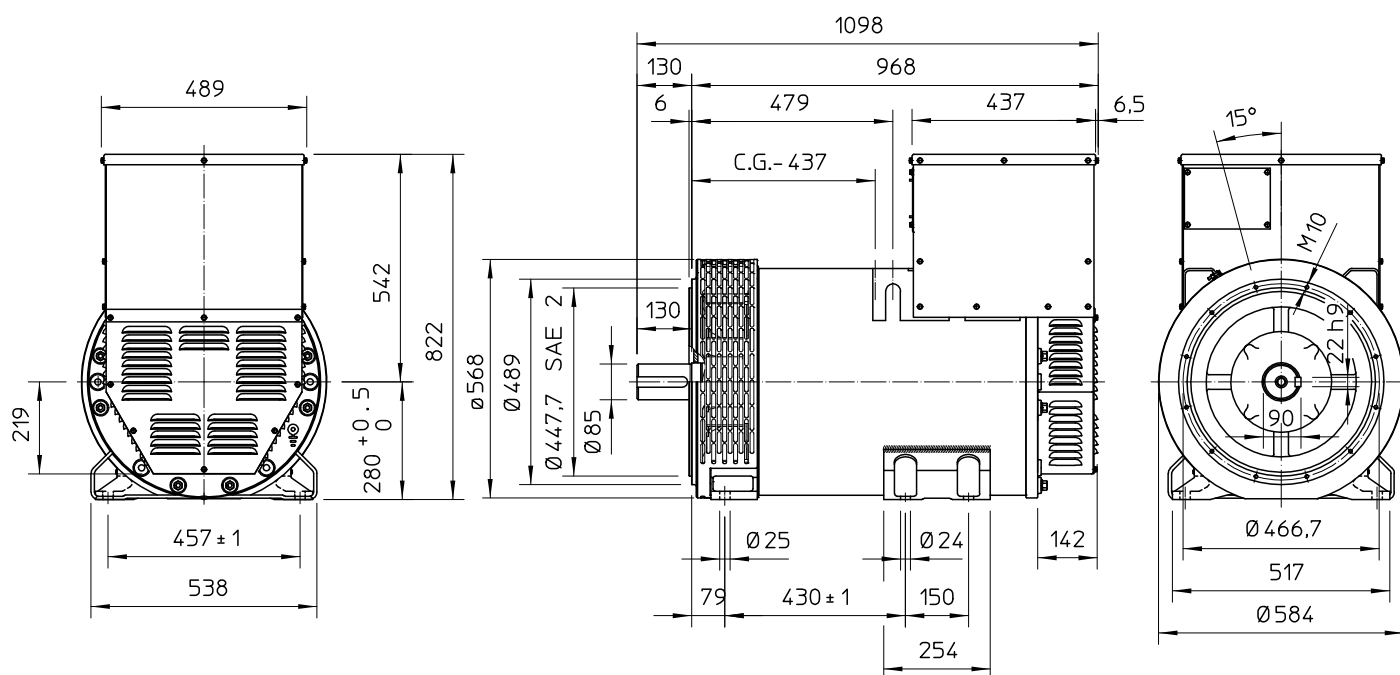


TWO BEARING MOMENTS OF INERTIA

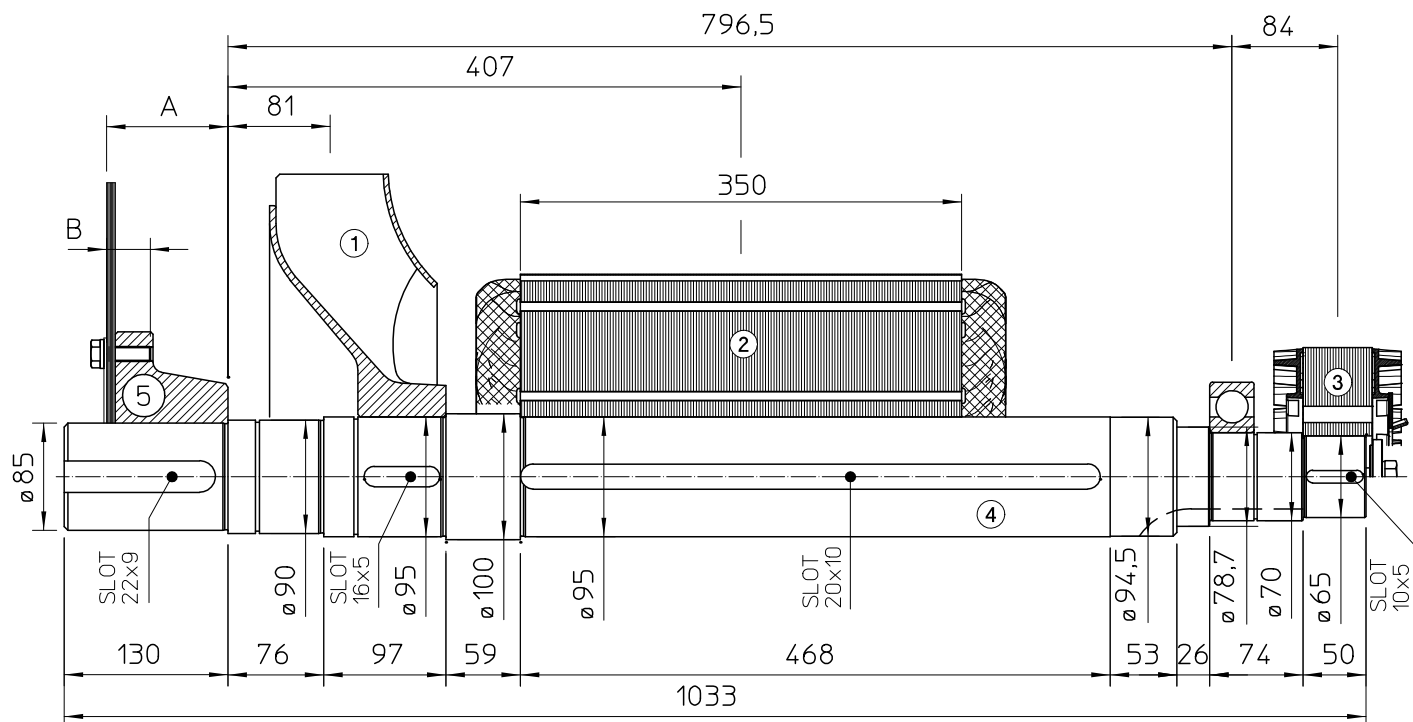


POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	6.1	0.1887
2	MAIN ROTOR	181	2.5056
3	EX. ROTOR	14.5	0.0874
4	SHAFT	49.9	0.0525
TOTAL		251.5	2.8342

TWO BEARING DIMENSIONS



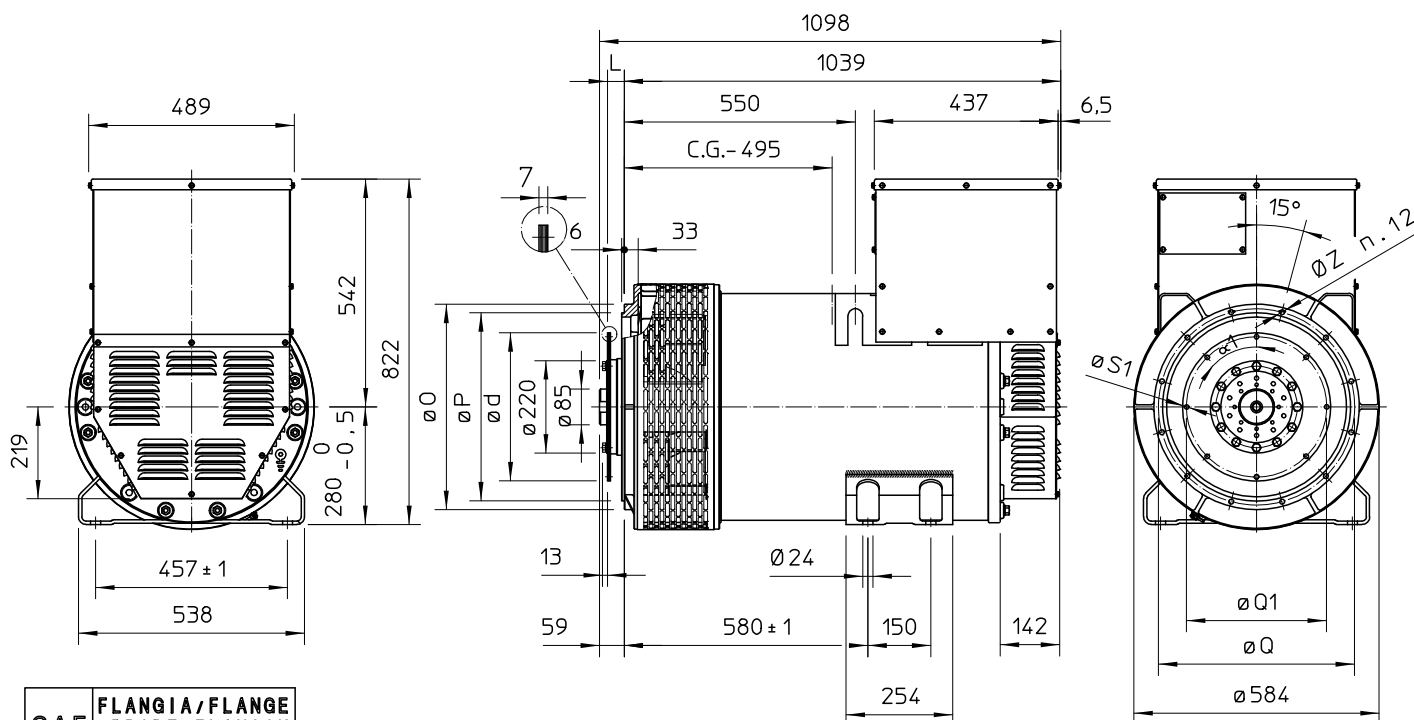
SINGLE BEARING MOMENTS OF INERTIA



POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	6.1	0.1887
2	MAIN ROTOR	181	2.5056
3	EX. ROTOR	14.5	0.0874
4	SHAFT	49.9	0.0525
TOTAL		251.5	2.4382

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	OC1
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