

mecc alte

GENERATOR TYPE ECP 34-2L/4 A

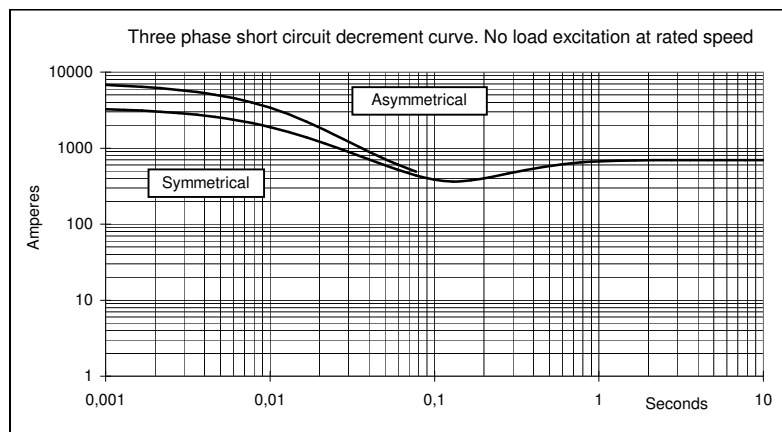
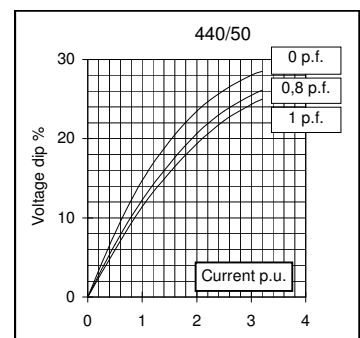
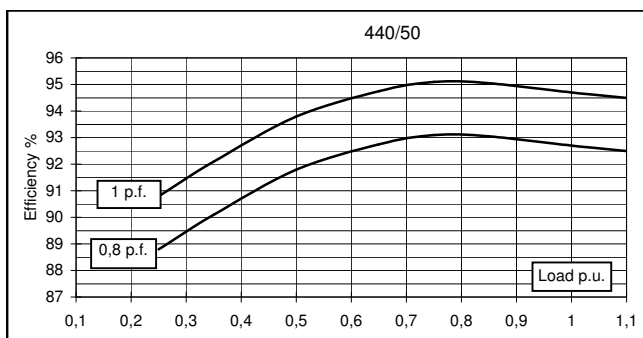
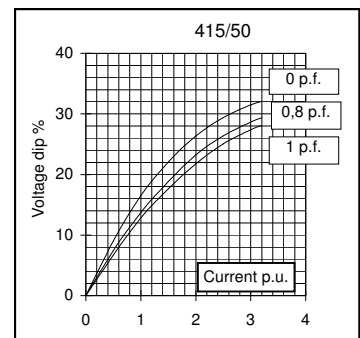
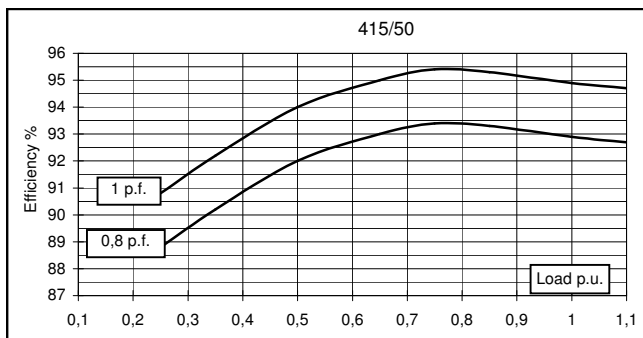
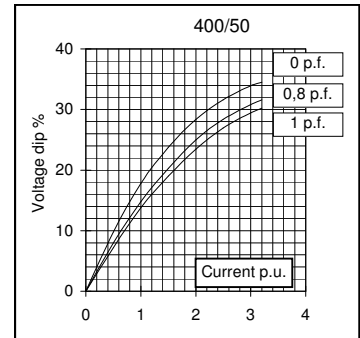
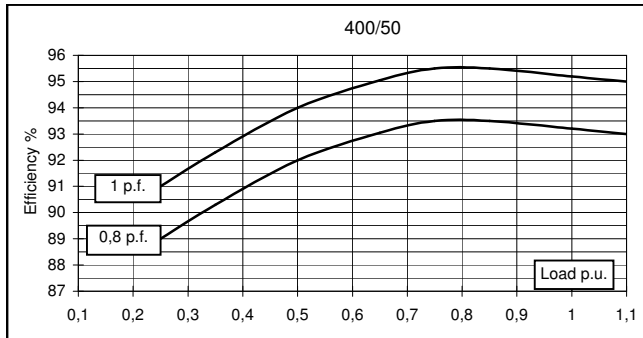
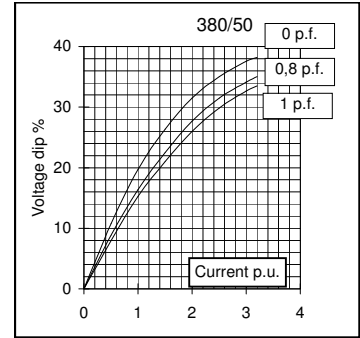
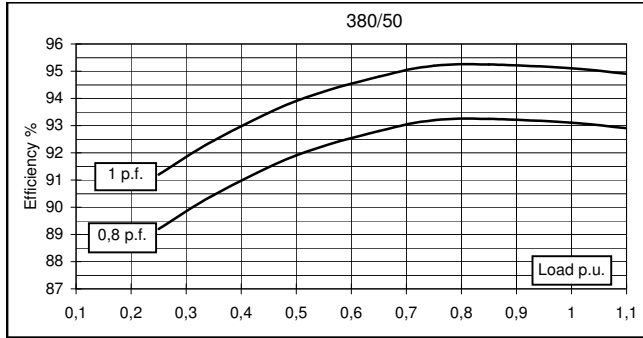
Electrical Characteristics										
Frequency		Hz	50				60			
Voltage (series star)		V	380	400	415	440	415	440	460	480
Rated power class H		kVA	150	150	150	125	150	170	180	180
		kW	120	120	120	100	120	136	144	144
Rated power class F		kVA	136	136	136	113	132	150	163	163
		kW	109	109	109	90,4	106	120	130	130
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	%	93,1	93,2	92,9	92,7	94,3	94,8	94,9	95
(see graph. for details)	3/4	%	93,2	93,5	93,4	93,1	94,7	94,9	95	95,2
	2/4	%	91,9	92	92	91,8	93,5	93,6	93,7	93,8
	1/4	%	89,2	89	88,8	88,8	90,2	90,2	90,2	90
Reactances (f. l.cl. F)	Xd	%	265,9	240	223,0	165,3	267,6	269,8	261,3	240
	Xd'	%	16,4	14,8	13,7	10,2	16,5	16,6	16,1	14,8
	Xd''	%	6,9	6,2	5,8	4,3	6,9	7,0	6,8	6,2
	Xq	%	135,3	122,1	113,4	84,1	136,1	137,2	132,9	122,1
	Xq'	%	135,3	122,1	113,4	84,1	136,1	137,2	132,9	122,1
	Xq''	%	29,4	26,5	24,6	18,3	29,5	29,8	28,9	26,5
	X ₂	%	18,3	16,5	15,3	11,4	18,4	18,5	18,0	16,5
	X ₀	%	2,8	2,5	2,3	1,7	2,8	2,8	2,7	2,5
Short Circuit Ratio	Kcc		0,40	0,48	0,55	0,91	0,30	0,35	0,40	0,48
Time Constants	Td'	sec.	0,0401							
	Td''	sec.	0,0095							
	Tdo'	sec.	1,90							
	Tα	sec.	0,017							
Short Circuit Current Capacity		%	>300				>350			
Excitation at no load	Amp.		0,3	0,4	0,5	0,7	0,2	0,3	0,4	0,5
Excitation at full load	Amp.		2,3	2,4	2,5	2,7	2,1	2,3	2,4	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	0,015								
Rotor Winding Resistance (20 °C)	Ω	3,577								
Exciter Resistance (20 °C)	Ω	Rotor : 0,410				Stator : 15,28				
Heat dissipation at f.l.cl.H	W	8894	8755	9171	7875	7253	7460	7739	7579	
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 %	1,7 / 1,8								
Waveform Distors.(THD) at no load	LL/LN %	2,3 / 2,4								
Mechanical characteristics										
Protection		IP 21 (other protection on request)								
DE bearing		6314.2RS								
NDE bearing		6311.2RS								
Weight of wound stator assembly	kg	168								
Weight of wound rotor assembly	kg	106								
Weight of complete generator	kg	481								
Maximun overspeed	rpm	2250								
Unbalanced magnetic pull at f.l.cl.F	kN/mm	5,6								
Cooling air requirement	m³/min	19,3				23				
Inertia Constant (H)	sec.	0,098				0,117				
Noise level at 1m/7m	dB(A)	79 / 65				83 / 69				

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

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50 Hz



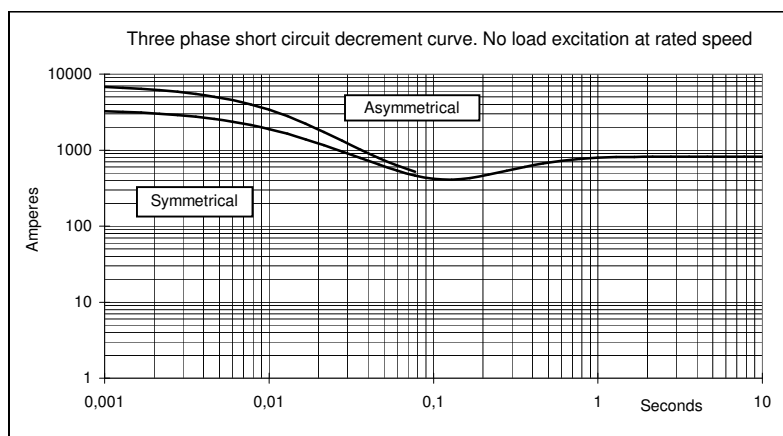
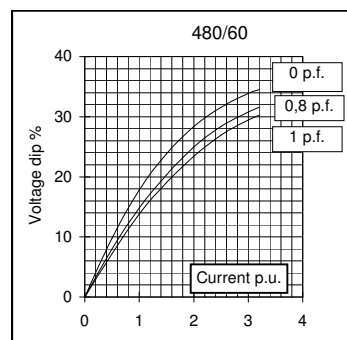
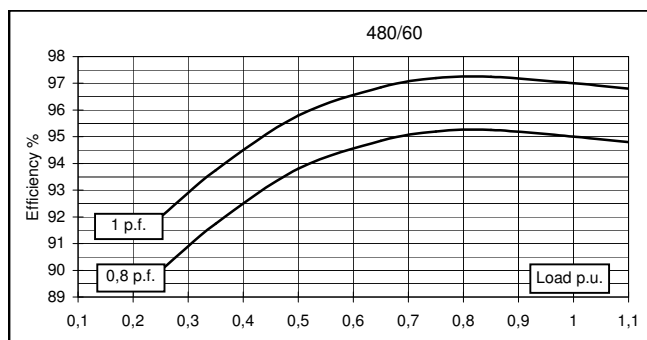
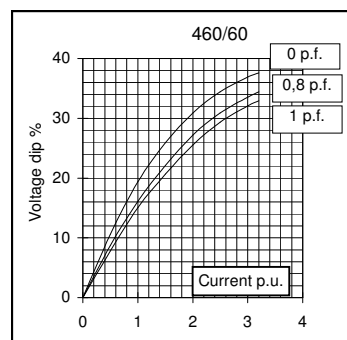
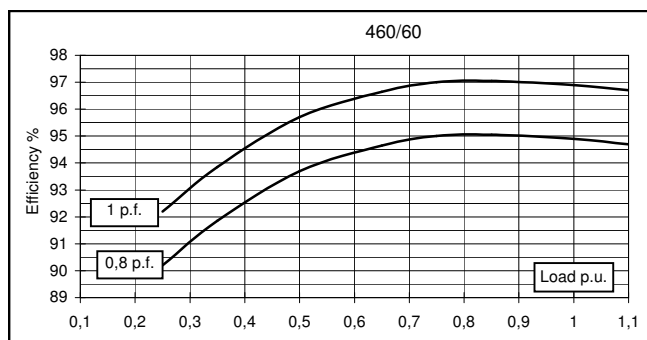
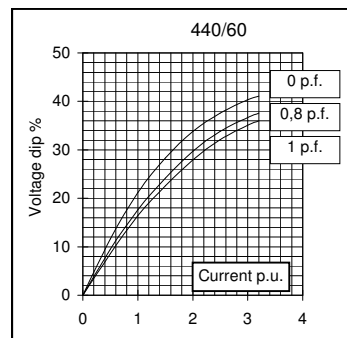
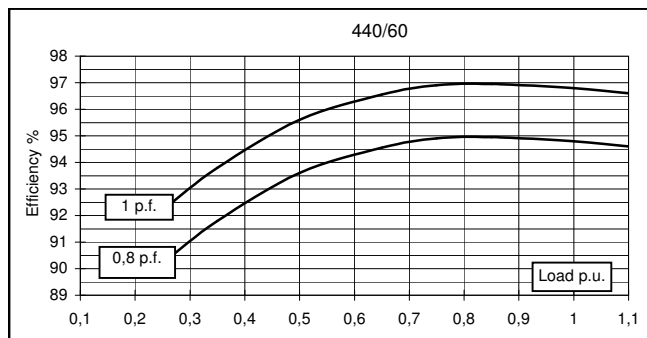
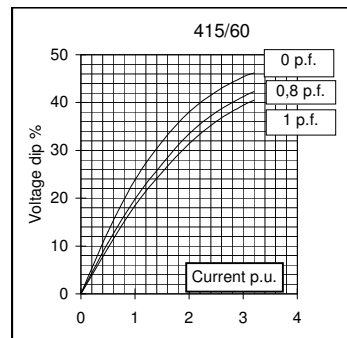
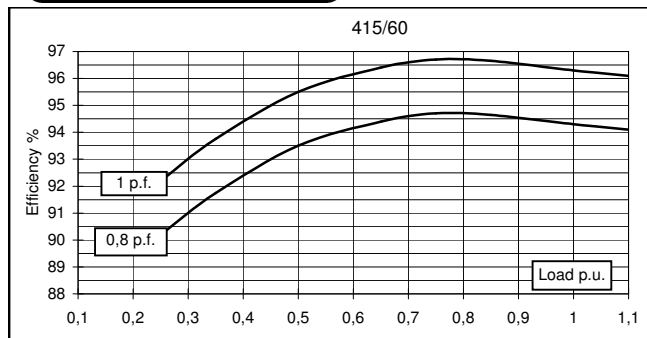
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RAD Diesel

021-58437

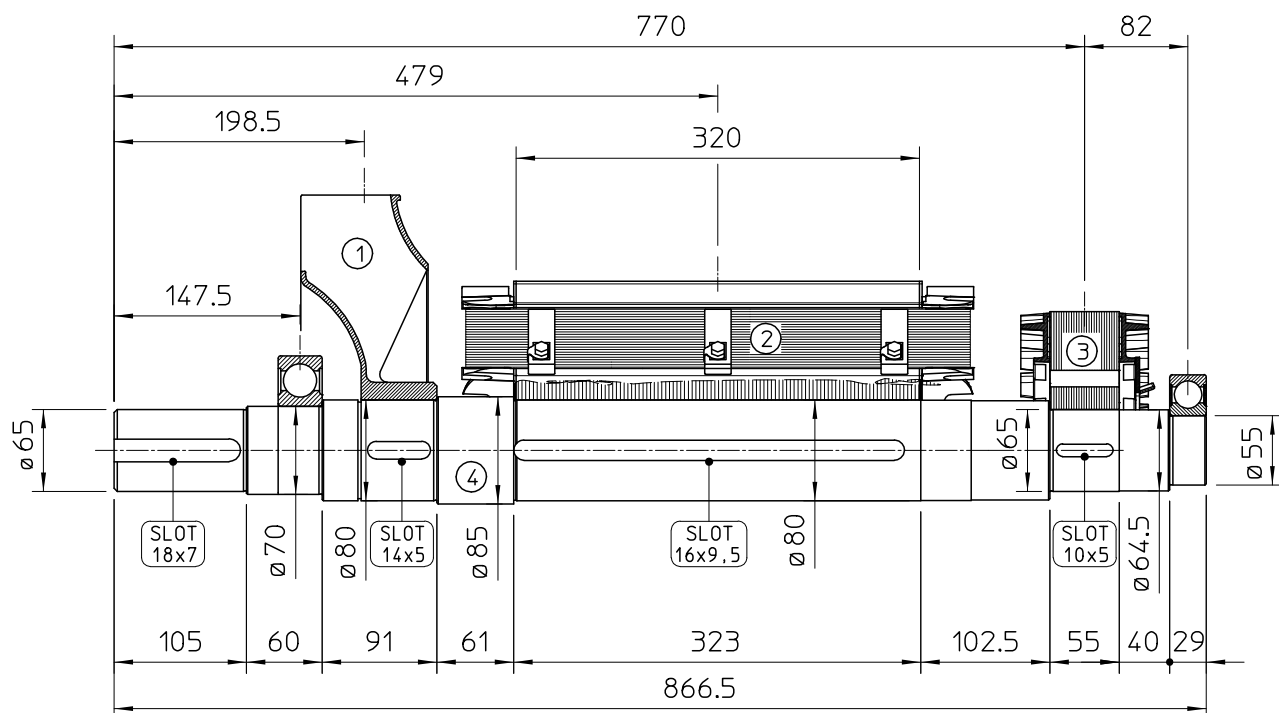
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60 Hz



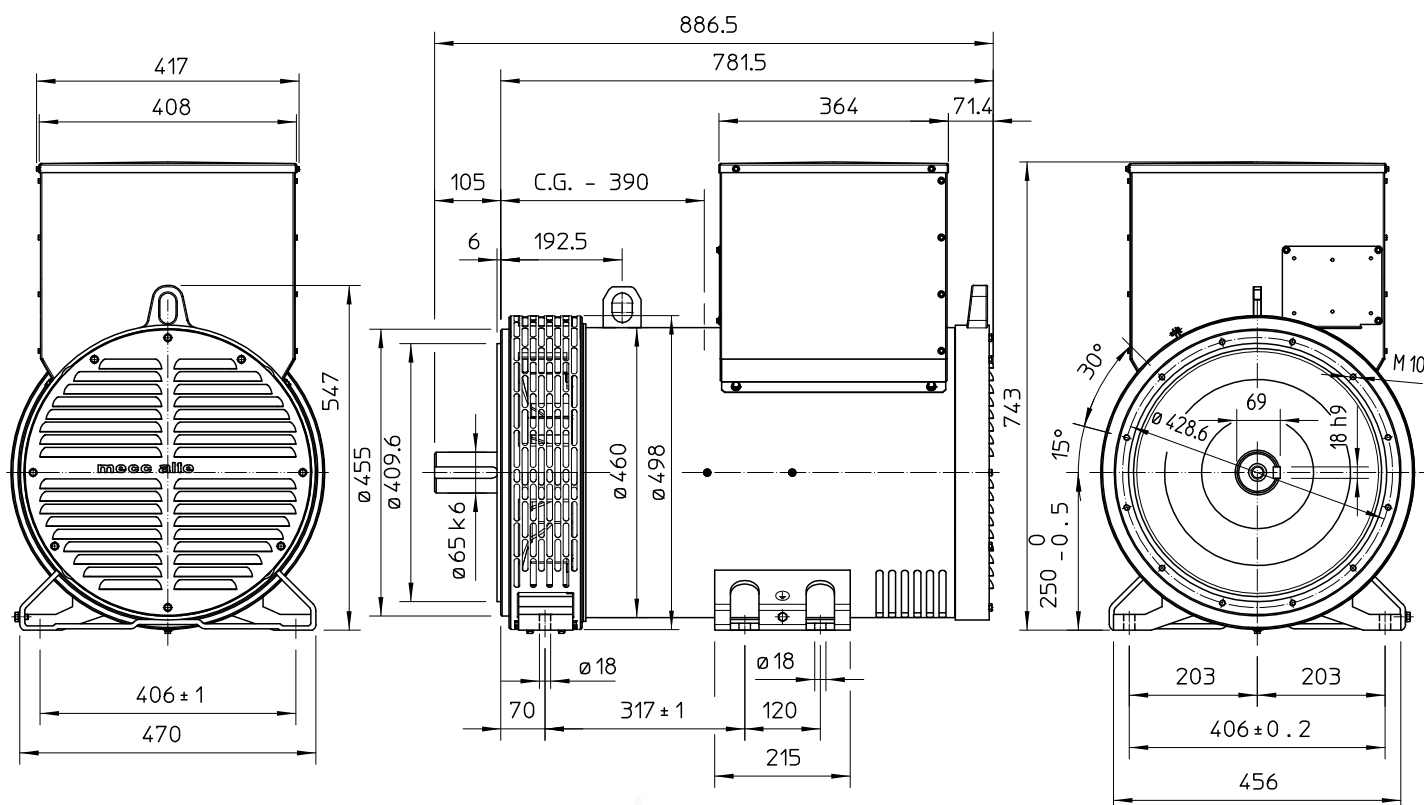
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TWO BEARING MOMENTS OF INERTIA



POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	3.6	0.0451
2	MAIN ROTOR	107.3	0.9647
3	EX. ROTOR	14.5	0.0874
4	SHAFT	29.6	0.0218
TOTAL		155	1.119

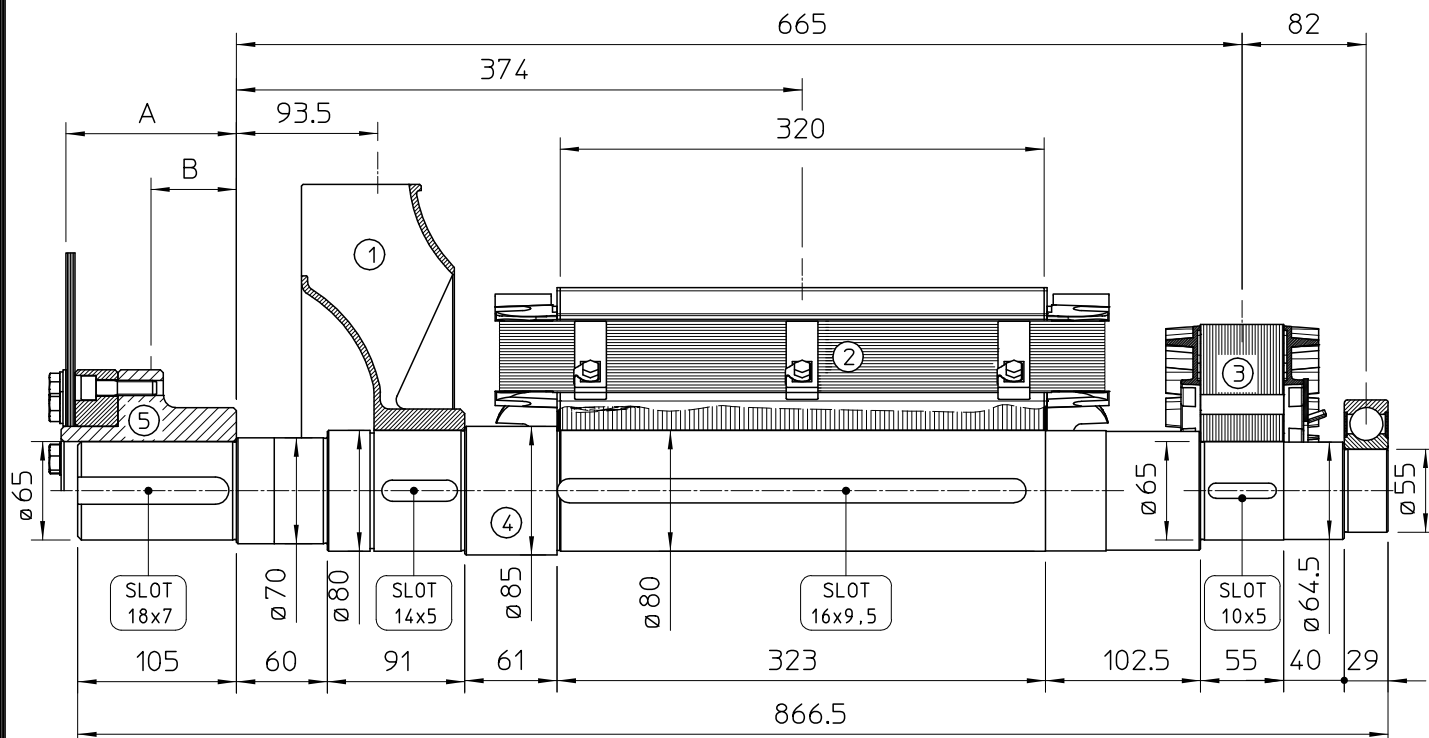
TWO BEARING DIMENSIONS

**RAD Diesel**

021-58437

C.G.= GRAVITY CENTER

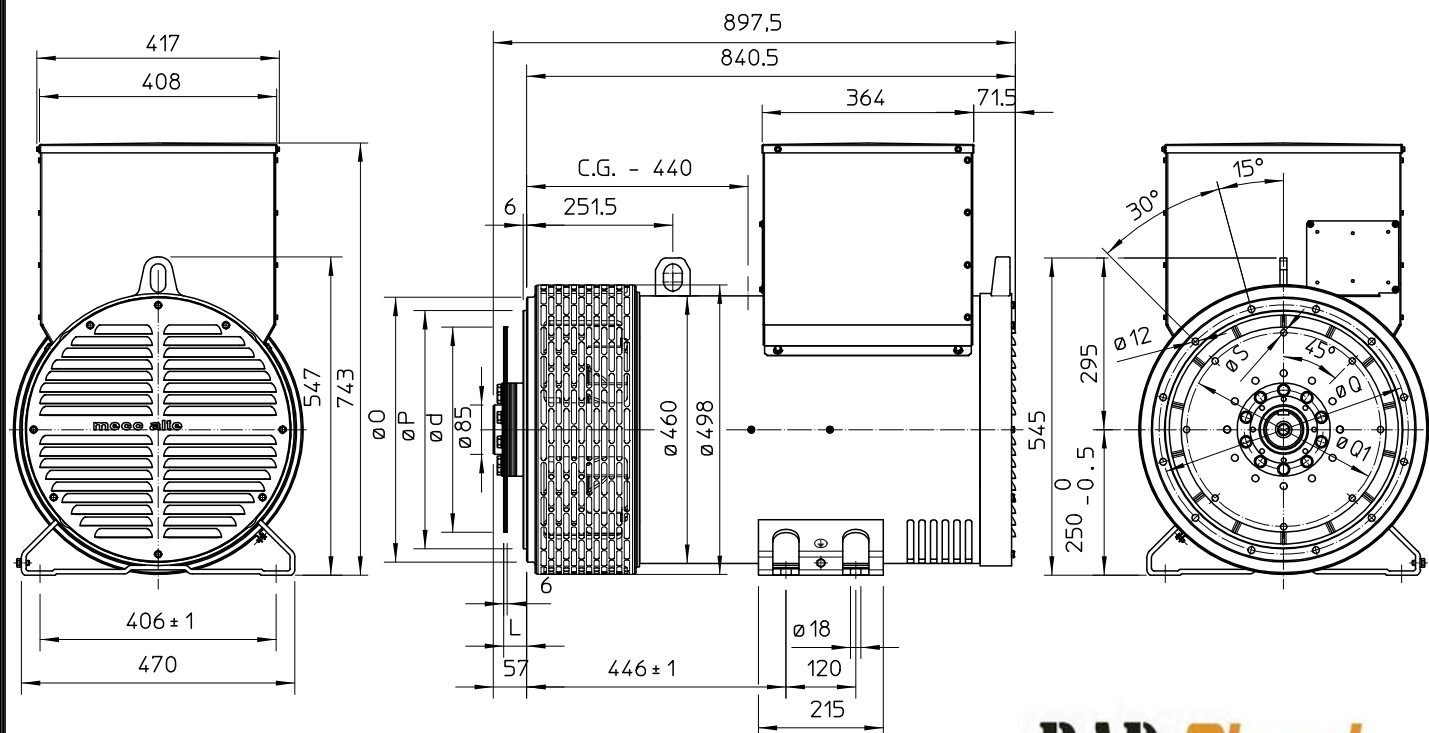
SINGLE BEARING MOMENTS OF INERTIA



POS.	COMPONENT	WEIGHT (kg)	J (kgm ²)
1	FAN	3.6	0.0451
2	MAIN ROTOR	107.3	0.9647
3	EX. ROTOR	14.5	0.0874
4	SHAFT	29.6	0.0218
TOTAL		155	1.119

SAE N°	5	SHAFTS COUPLING FLEX PLATE			
	A	B	WEIGHT kg	J kgm ²	
10	112.8	35.6	13.5	0.0770	
11 1/2	98.6	71.5	12.4	0.0956	
14	84.4	68.6	14.8	0.2360	

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

SAE N.	GIUNTI A DISCHI / DISC COUPLING DISQUE DE MONOPALIER / SCHEIBENKUPPLUNG			
	L	d	Q1	S
10	53.8	314.32	295.27	11
11 1/2	39.6	352.42	333.37	11
14	25.4	466.72	438.15	14

RAD Diesel

021-58437

C.G.= GRAVITY CENTER