

ژنراتور : Mecc Alte

موتور دیزل : IVECO

Standby		Prime		دیزل ژنراتور
KW	KVA	KW	KVA	
220	176	200	160	



موتور دیزل

Manufacturer	IVECO	تولید کننده
Type	NEF67TE2A	تیپ
Number of cylinders	6	تعداد سیلندر ها
Cylinder arrangement	inline	آرایش سیلندر ها
Displacement , Liters	6.7	جا به جایی
Bore × Stroke , mm	104X132	قطر سیلندر × کورس پیستون

ژنراتور

Manufacturer	Mecc Alte	تولید کننده
Type	ECO38-2S	تیپ
Frequency, Hz	50	فرکانس
Speed, Rpm	1500	سرعت
Voltage, V	380	ولتاژ
Excitation	Brushless	سیستم تمریک
Stator windings	12	سیم پیچ استاتور
Rotor	with damping cage	روتور
Over speed, Rpm	2250	مداکثر سرعت مجاز
Short circuit current	0,43	جریان اتصال کوتاه
Insulation class	H	کلاس عایق
Protection class	IP 21	کلاس حفاظتی
Cooling air volume,m ³ / sec	32	دبی هوای فنک کننده

N67 TE2A FOR POWER GENERATION APPLICATIONS

Specifications

Thermodynamic cycle		Diesel 4 stroke	
Air intake		TAA	
Arrangement		6, in line	
Bore x stroke	mm	104x132	
Total displacement	l	6.7	
Valves per cylinder		2	
Injection system		direct Common Rail	
Speed governor		electronic	
Cooling system		liquid (water + 50% Parafllu1)	
Flywheel housing/flywheel	type	SAE3 / 11" 1/2	
Flywheel rotation		CCW	
Lube oil specifications		ACEA E3-E5	
Lube oil consumption		<0.1% of fuel consumption	
Fuel specifications		EN 590	
Oil and filters intervals for replacement	hours	600	
Fuel consumption at:	rpm	1500	1800
	100% load l/h (g/kWh)	44 (205.5)	n.a.
	80% load l/h (g/kWh)	39 (207)	n.a.
	50% load l/h (g/kWh)	25.6 (217.5)	n.a.
Coolant capacity: engine only	l	~11	
	engine+radiator	l	~25.5
ATB (without canopy)	°C	55	
No remote cooling radiator allowed			
Lube oil total system capacity including pipes, filters etc.	l	~17	
Electrical system		12Vcc	
Starting batteries: recommended capacity	Ah	1x185	
Discharge current (EN 50342)	A	1200	
Cold starting:	without air preheating	°C	
	with air preheating	°C	
		-10	
		-25	

Performance

Ratings ¹		1500 rpm		1800 rpm	
		PRIME	STAND-BY	PRIME	STAND-BY
Rated Output ²	kWm	175	193	195	215

1) Ratings in accordance with ISO 8528. For duty at temperature over 40°C and/or altitude over 1000 meters must be considered a power derating factor. Contact the FPT sales organization

2) Net power at flywheel available after 50 hours running with a ±3% tolerance

PRIME POWER: The prime power is the maximum power available with varying loads for an unlimited number of hours. The average power output during a 24h period of operation must not exceed 80% of the declared prime power between the prescribed maintenance intervals and at standard environmental conditions. A 10% overload is permissible for 1 hour every 12 hours of operation.

STAND-BY POWER: The stand-by power is the maximum power available for a period of 500 hours/year with a mean factor of 90% of the declared stand-by power. No kind of overloads is permissible for this use.

CONTINUOUS POWER: Contact the FPT sales organization.

N67 TE2A FOR POWER GENERATION APPLICATIONS

Standard Configuration:

FPT engine N67 TE2A equipped with:

- Mounted radiator incorporating air-to-air charge cooler
- Front radiator guard
- Mounted belt driven pusher fan
- Fan guard
- Mounted air filter with replaceable cartridges
- Fuel filter
- Primary fuel filter/water separator
- Replaceable oil filter
- Electronic engine control unit with wiring loom and sensors
- Interface card
- Front engine mounting brackets
- Flywheel housing SAE3 and flywheel 11" 1/2
- Re-directable exhaust gas elbow
- Recircled oil breather system
- Oil dipstick
- 12Vdc electrical system
- User's handbook

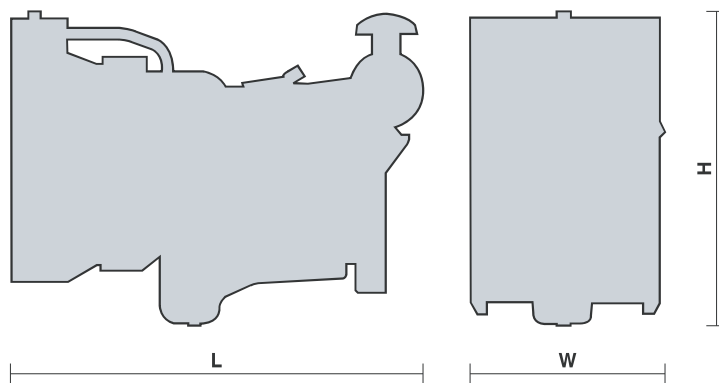
THE ENGINE IS SUPPLIED WITHOUT LIQUIDS

Optional equipment:

On request the engine can be supplied with:

- Oil drain pump
- Oil drain valve
- 120/230 Volt water jacket heater
- WT and OP sensors for gauges
- Low water level sensor
- Turbo and exhaust gas guards
- Exhaust gas flexible joint
- 24Vdc electrical system

Overall dimensions



L = 1713 mm

W = 796 mm

H = 1230 mm

Dry weight 630 kg



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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	m ³ /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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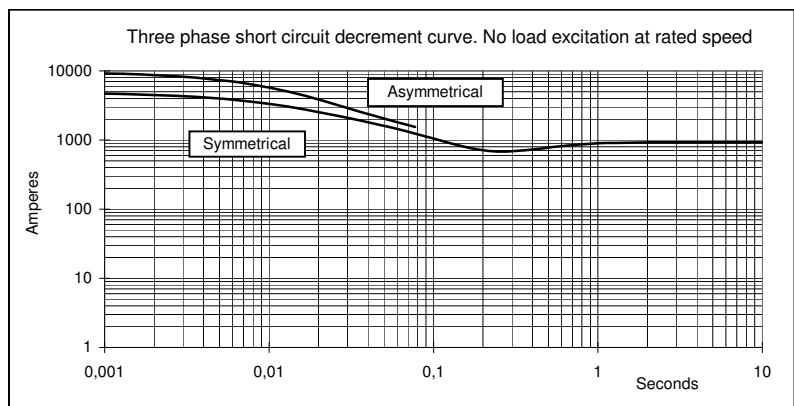
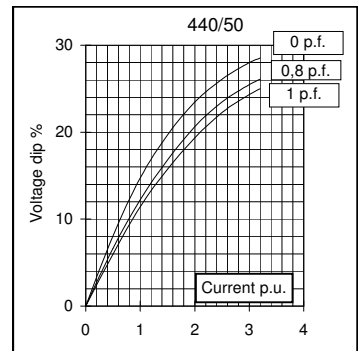
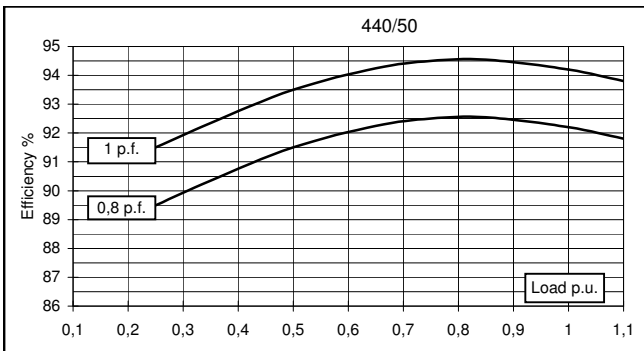
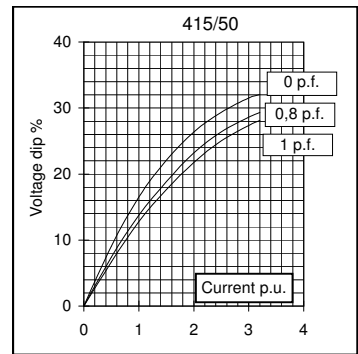
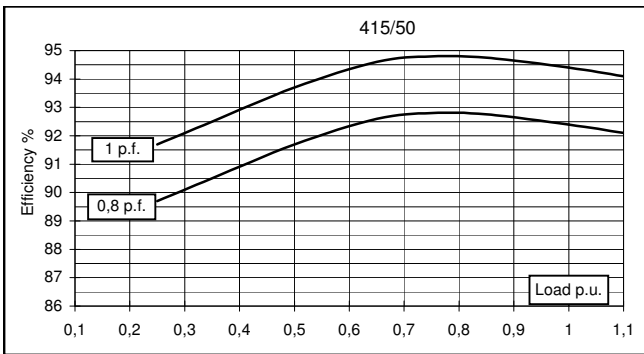
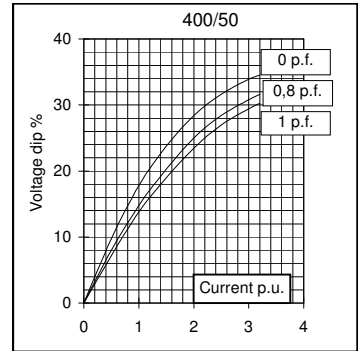
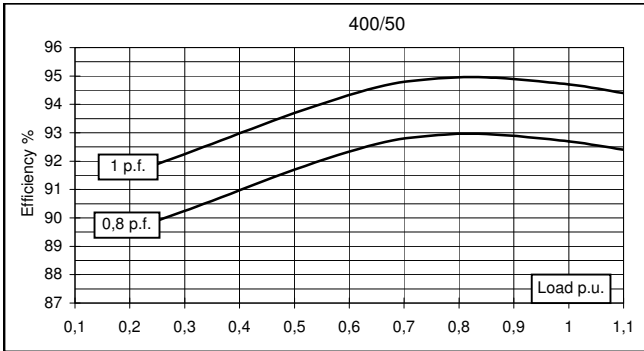
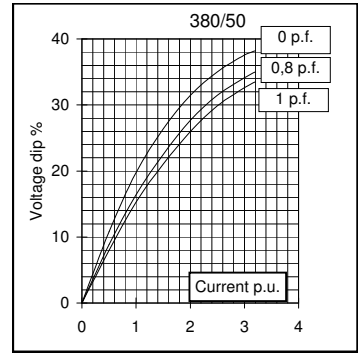
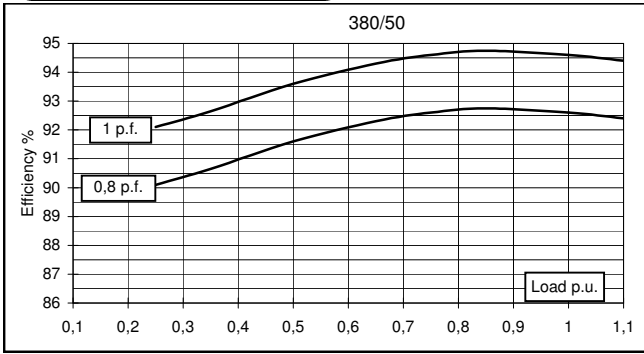


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50 Hz

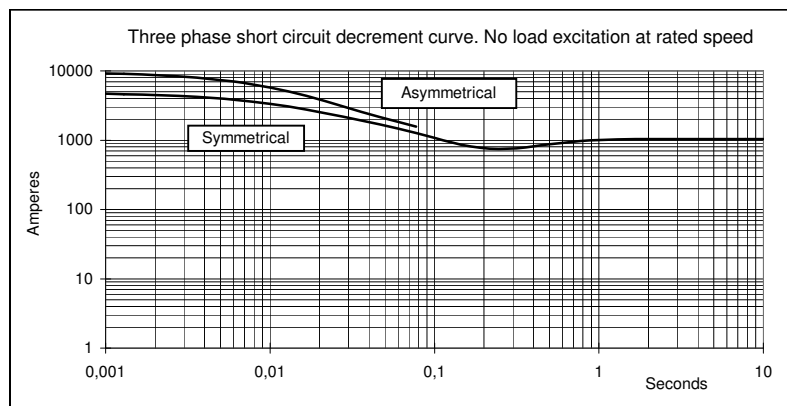
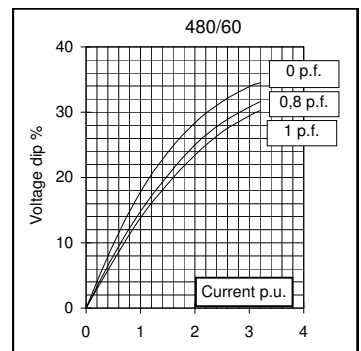
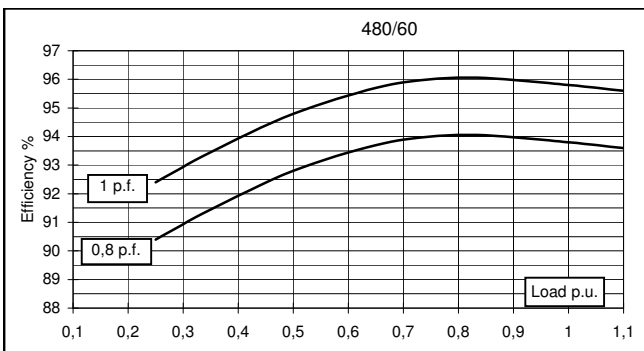
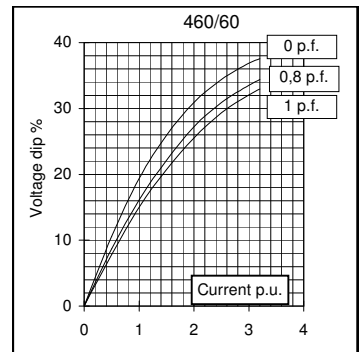
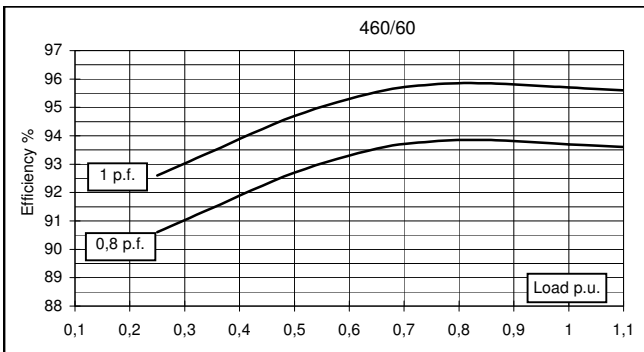
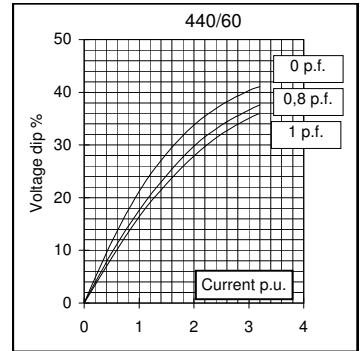
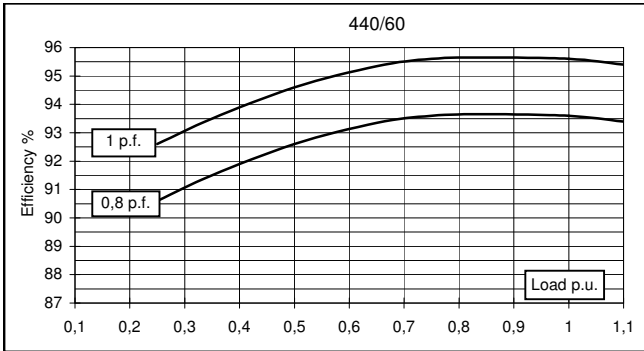
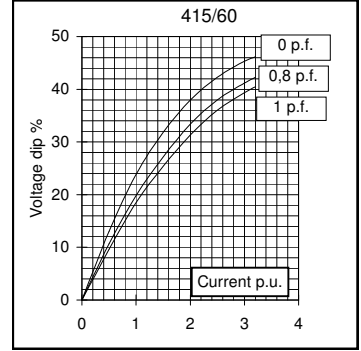
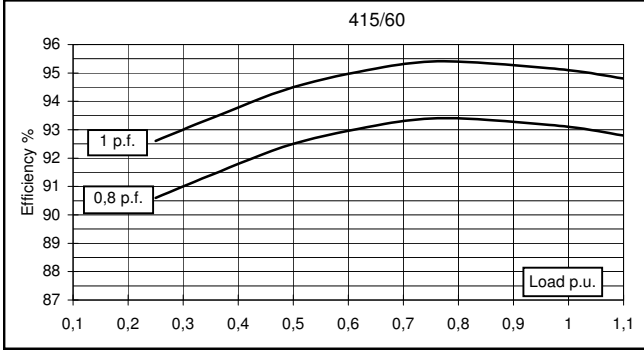




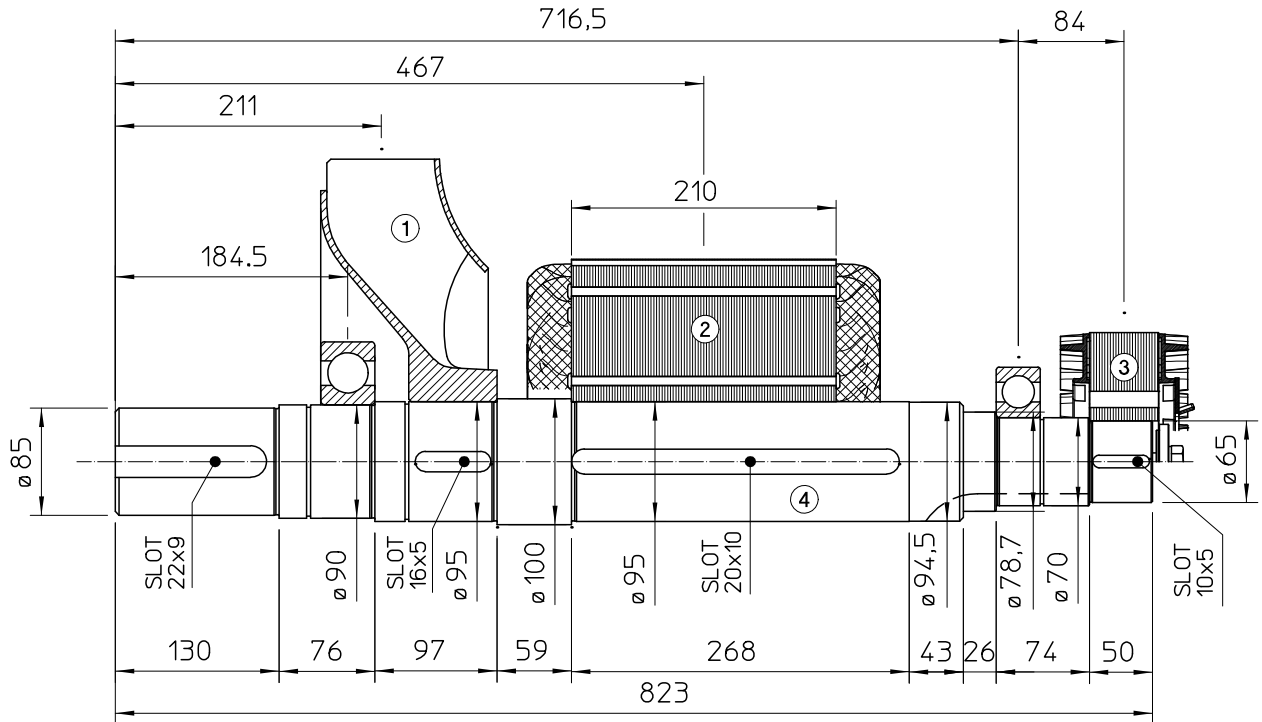
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60 Hz

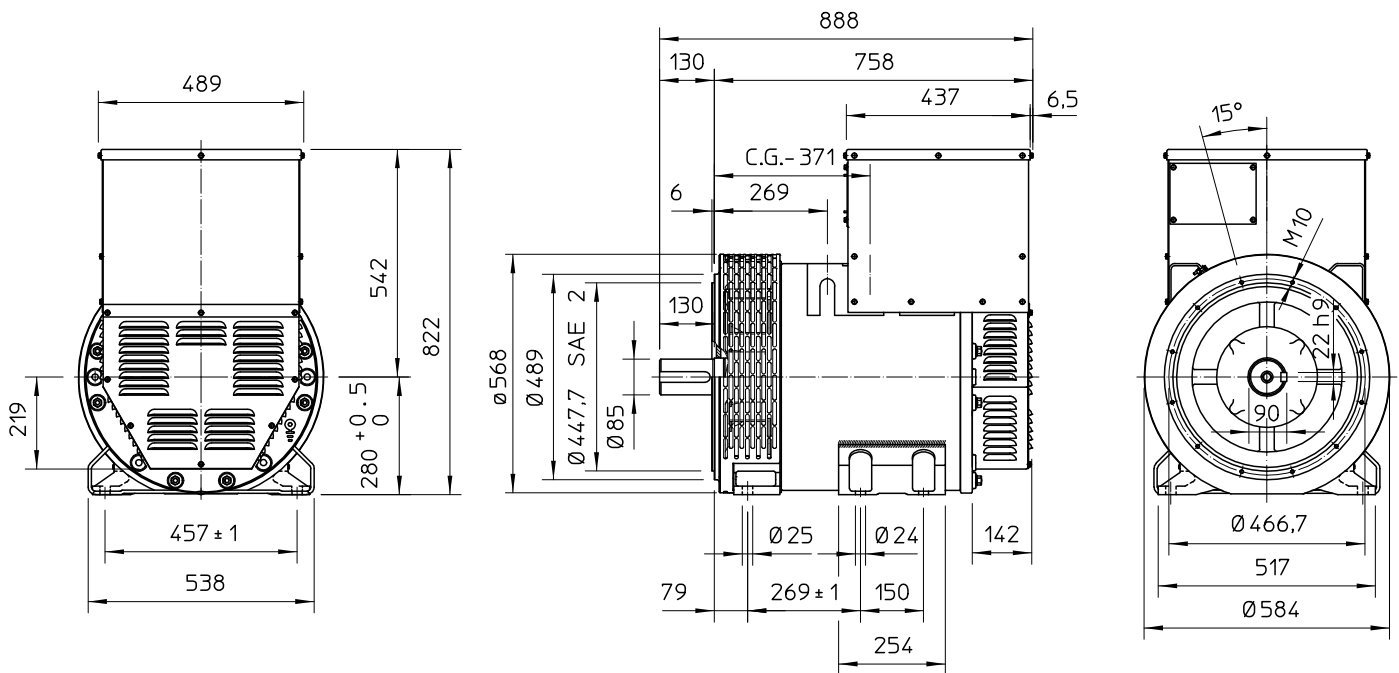


TWO BEARING MOMENTS OF INERTIA



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

