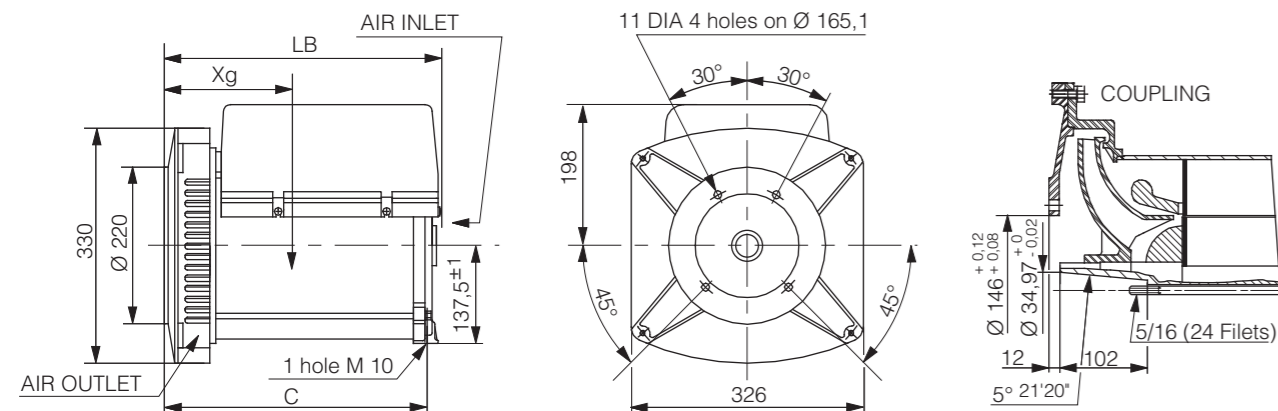
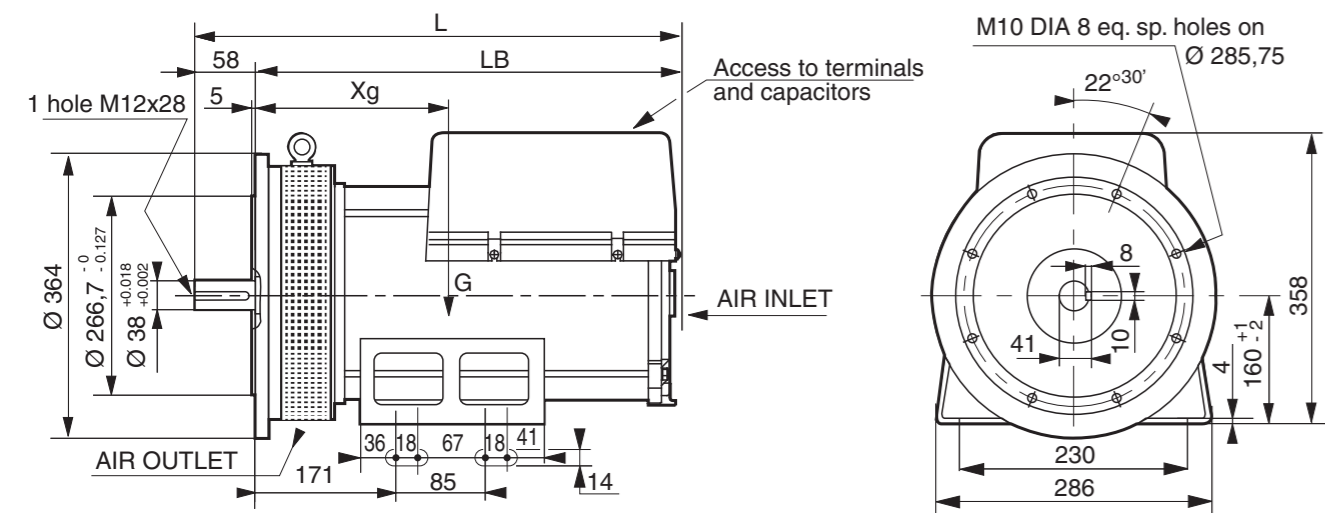


Single bearing SAE J 609a - Flange B - ext 6



Dimensions (mm) weight (kg)					
TYPE	LB	C	Xg	Weight (kg)	Moment of inertia J (kg.m ²)
LSA 37 M7	389	369	154	70	0.0485
LSA 37 M8	389	369	171	85	0.0582
LSA 37 L6	429	409	191	90	0.0691

Two bearing - IM 1001



Dimensions (mm) weight (kg)					
TYPE	L	LB	Xg	Weight (kg)	Moment of inertia J (kg.m ²)
LSA 37 M7	498	440	220	75	0.0489
LSA 37 M8	498	440	235	90	0.0586
LSA 37 L6	523	465	255	95	0.0690
LSA 37 VL 10 / 11	588	530	290	115	0.0844



MOTEURS LEROY-SOMER 16015 ANGOULÊME CEDEX - FRANCE

338 567 258 RCS ANGOULÊME
S.A. au capital de 62 779 000 €

www.leroy-somer.com



ALTERNATORS
LSA 37 - Single phase - 2 Pole
Electrical and mechanical data

SPECIALLY ADAPTED FOR APPLICATIONS :

The LSA 37 single phase 2 pole alternator is designed to be suitable for typical generator applications such as :
 - prime production, stand by or simply to supply power for electrical tools and electronic equipment.

COMPLIANT WITH INTERNATIONAL STANDARDS :

The LSA 37 alternator complies with the main international standards and regulations.
 IEC 60034, ISO 8528/3, NEMA MG 1.22, VDE, CSA, CSA/UL.
 It can be integrated into a CE marked generator set.
 Designed and manufactured in accordance to ISO 9001 & 14001.

TOP OF THE RANGE ELECTRICAL PERFORMANCES :

- Insulation class H (rotor), F (stator).
- Reconnectable alternator : 4 wire (series 220 or 240 V) (parallel 110 or 120 V).
- Voltage range : 115/230 V 50 Hz and 120/240 V 60 Hz.
- Short circuit current : 4.5 times nominal current for 4 seconds.
- The recovery time is less than 0.1s when a full load is applied at the nominal voltage.
- Large overload capability for electric motor starting (300%).
- Radio interference within the tolerance as per EN 55011group 1,class B standard for Europe (CE marked).

EXCITATION AND REGULATION SYSTEM :

The LSA 37 has brushless compound excitation which uses an auxiliary phase capacitor to provide self excitation (ACC). These units offer high reliability due to their simple design and require little or no maintenance.
 Voltage regulation at constant speed is +/- 5%.

MECHANICAL CHARACTERISTICS :

- Rolled steel frame.
- Injection moulded aluminium NDE bracket with steel insert.
- Polymer cover.
- IP 23 protection.
- Two-bearing and single-bearing versions designed to be suitable for most popular engine.
- Sealed for life ball bearings (L10H : 12000 h).
- Maximum overspeed : 4320 r.p.m.

POWER RATING : 3000 r.p.m. - 115 / 230 V - P.F. = 1

TYPE	kW - kVA		Efficiencies %			Reactances %			Harmonic	Air Flow
	continuous duty	stand-by	1/2	3/4	4/4	Xd	X'd	X''d	TGH* (%)	m ³ /h
LSA 37 M7 - A 1/2	8.5	9.5	72.5	74.8	73.9	204	13.8	13.8	< 4%	300
LSA 37 M8 - A 1/2	12	13	76.2	78.4	77.2	234	14.2	14.2	< 4%	300
LSA 37 L6 - A 1/2	16	17.5	78.4	80.5	79.5	223	11.1	11.1	< 4%	300
LSA 37 VL11 - A 1/2	19	21	79.8	82.6	82.2	216	10.1	10.1	< 4%	300

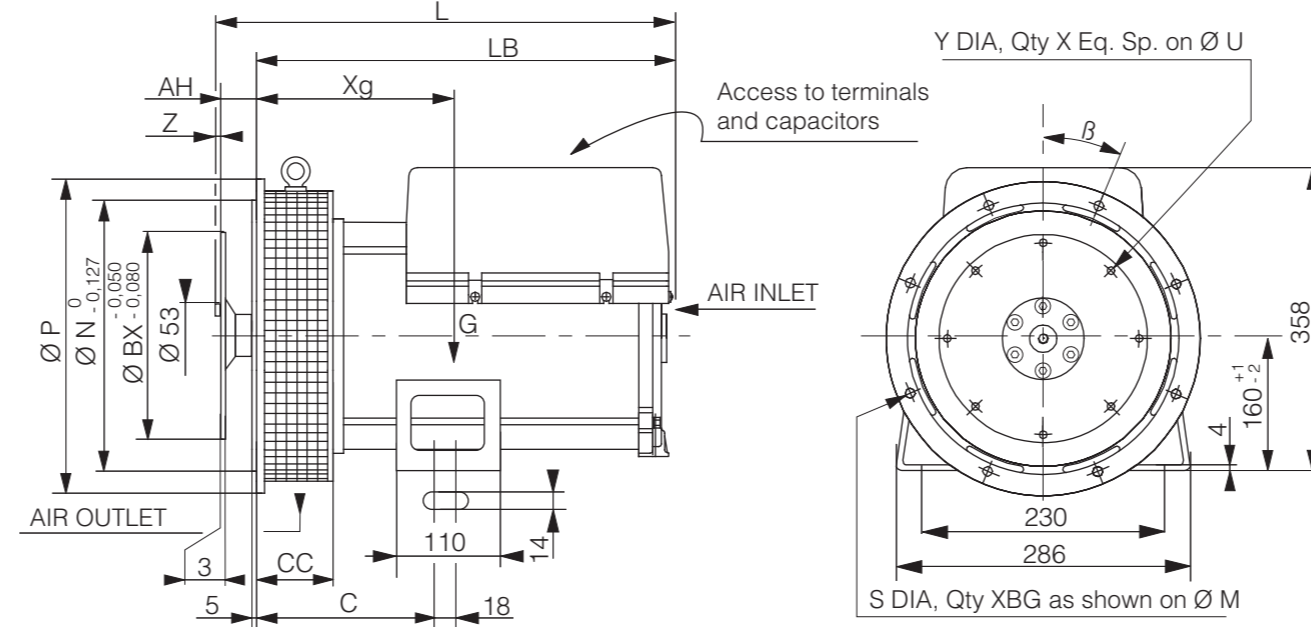
* Total harmonic content line to neutral, on non distorting load.

POWER RATING : 3600 r.p.m. - 120 / 240 V - P.F. = 1

TYPE	kW - kVA		Efficiencies %			Reactances %			Harmonic	Air Flow
	continuous duty	stand-by	1/2	3/4	4/4	Xd	X'd	X''d	TGH* (%)	m ³ /h
LSA 37 M7 - A 1/2	10	11	68.7	75.2	74.4	173	15.1	15.1	< 4%	360
LSA 37 M8 - A 1/2	14.5	16	74	77.8	77	171	13.7	13.7	< 4%	360
LSA 37 L6 - A 1/2	19	21	76.2	79.4	79.5	172	12.1	12.1	< 4%	360
LSA 37 VL 10 - A 1/2	23	25	79.4	82.2	83.2	155	7.9	7.9	< 4%	360

* Total harmonic content line to neutral, on non distorting load.

Single bearing with disc - IM 1201 (Flange S.A.E. 5 without hand space)

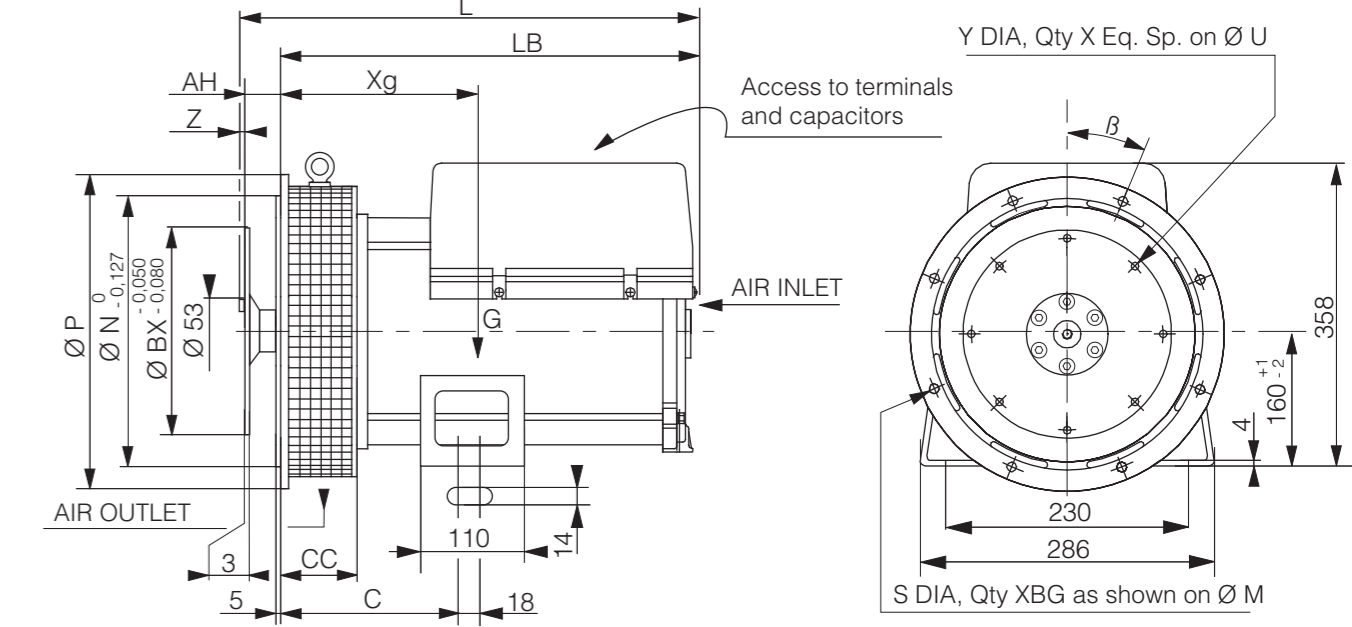


Dimensions (mm) weight (kg)						Moment of inertia J (kg.m ²)	
TYPE	L maxi	LB	Xg	C	Weight (kg)	Flex plate S.A.E. 6 ^{1/2}	Flex plate S.A.E. 7 ^{1/2}
LSA 37 M7	455	420	200	216	75	0.0526	0.0545
LSA 37 M8	455	420	215	216	90	0.0623	0.0642
LSA 37 L6	480	445	235	216	95	0.0731	0.0750
LSA 37 VL 10/ VL11	545	510	270	216	115	0.0881	0.0900

Flange dimensions (mm)							
S.A.E.	P	N	M	S	XBG	β	CC
5	364	314.325	333.375	11	8	22° 30'	65

Flex plate dimensions (mm)							Coupling	
S.A.E.	BX	U	X	Y	AH	Z	S.A.E.	5
7 1/2	241.3	222.25	8	9	30.2	5	7 1/2	X
6 1/2	215.9	200.02	6	9	30.2	5	6 1/2	X

Single bearing with disc - IM 1201 (Flange S.A.E. 4 - 5 with hand space)



Dimensions (mm) weight (kg)						Moment of inertia J (kg.m ²)	
TYPE	L maxi	LB	Xg	C	Weight (kg)	Flex plate S.A.E. 6 ^{1/2}	Flex plate S.A.E. 7 ^{1/2}
LSA 37 M7	480.2	445	225	241	80	0.0595	0.0614
LSA 37 M8	480.2	445	240	241	95	0.0692	0.0711
LSA 37 L6	505.2	470	260	241	100	0.0809	0.0828
LSA 37 VL 10/ VL 11	570.2	535	295	241	120	0.0968	0.0987

Flange dimensions (mm)							
S.A.E.	P	N	M	S	XBG	β	CC
4	409	361.95	381	11	12	15°	115
5	409	314.325	333.375	11	8	22° 30'	115

Flex plate dimensions (mm)							Coupling		
S.A.E.	BX	U	X	Y	AH	Z	S.A.E.	4	5
7 1/2	241.3	222.25	8	9	30.2	5	7 1/2	X	X
6 1/2	215.9	200.02	6	9	30.2	5	6 1/2	X	X