

# KIRLOSKAR ELECTRIC

RANGE:  
750 kVA TO 2000 kVA



BRUSHLESS HIGH PERFORMANCE  
SINGLE & DOUBLE BEARING L.V. AC GENERATORS





## DIMENSIONAL DETAILS OF DOUBLE BEARING AC GENERATORS

SL.NO	FRAME	A	AA	AB	AC	B	BA	BB	BC	BD	BE	BF	BG	C	D	E	F	G	GA	GD	GE	H	HA	HC	L	L1	K	CG	GD <sup>2</sup>	RT.WT.	NET.WT.
1	4AB400/B2	710	120	810	820	560	205	806	102	205	60	34	265	355	110.035 110.013	210	28.000 27.948	100.0 99.8	116.00 115.70	16.00 15.89	10	400.0	27	1385	1695	685	28	839	63.74	753	2159
2	4AB400/D2	710	120	810	820	710	200	930	102	205	60	45	265	355	110.035 110.013	210	28.000 27.948	100 99.8	116.00 115.70	16.00 15.89	10	400.0	27	1385	1820	685	28	899	81.62	925	2602
3	4AB400/G2	710	125	810	826	900	215	1091	74	200	60	25	275	355	120.035 120.013	210	32.000 31.938	109.0 108.8	127.60 127.40	18.00 17.87	11	400.0	27	1385	2010	685	35	1007	90.29	1082	3100
4	4AB450/B2	800	160	920	940	1000	360	1321	122	245	120	30	360	425	130.040 130.015	250	32.000 31.938	119.0 118.8	137.0 136.7	18.00 17.89	11	450.0	27	1465	2280	760	35	1220	152.5	1526	4210
5	4AB450/D2	800	160	920	952	1000	425	1436	97	236	200	100	475	425	130.040 130.015	250	36.000 35.938	118.0 117.7	138.0 137.7	20.00 19.87	12	450.0	27	1465	2495	780	35	1258	237.1	1725	4800
6	4AB500/B2	850	160	1016	1055	1000	425	1385	101	236	200	100	425	425	140.040 140.015	250	36.000 35.938	128.0 127.7	148.0 147.7	20.00 19.87	12	500.0	27	1812	2523	862	42	1225	291.0	1873	5400

## DIMENSIONAL DETAILS OF SINGLE BEARING AC GENERATORS

SL. NO	FRAME	A	AA	AB	AC	B	BA	BB	BC	BE	BF	BG	C	E	H	HA	HC	L	L1	K	PA	PB	PC	J	X	Y	Z	U	V	W	Q	R	S	CG	GD <sup>2</sup>	RT. WT.	NET. WT.	SAE COMBINATION
1	4AB400/B1	710	125	810	810	560	205	806	102	60	30	265	371.3	15.7	400.0	27	1475	1504	670	28	647.7	571.5	810	7	6	16.7	542.92	16	13.5	679.45	12	16.7	248	736	69.37	856	2329	0/18
2	4AB400/D1	710	125	810	810	710	210	930	102	60	30	265	371.3	15.7	400.0	27	1475	1629	670	28	647.7	571.5	810	7	6	16.7	542.92	16	13.5	679.45	12	16.7	248	796	87.73	1021	2765	0/18
3	4AB400/B1	710	125	810	810	560	205	806	102	60	30	265	387	0	400.0	27	1475	1504	670	28	787.4	673.1	882.6	7	12	16.7	641.3	16	13.5	850.9	12	16.7	248	736	69.37	856	2329	00/21
4	4AB400/D1	710	125	810	810	710	210	930	102	60	30	265	387	0	400.0	27	1475	1629	670	28	787.4	673.1	882.6	7	12	16.7	641.3	16	13.5	850.9	12	16.7	248	796	87.73	1021	2765	00/21
5	4AB450/A1	800	160	920	940	800	360	1121	122	120	30	360	441.5	15.7	450.0	27	1775	1860	685	35	647.7	571.5	920	8	6	16.7	542.92	16	13.5	679.45	6	16.7	175	789	134	1280	3864	0/18
6	4AB450/B1	800	160	920	940	1000	360	1321	122	120	30	360	441.5	15.7	450.0	27	1775	2060	685	35	647.7	571.5	920	8	6	16.7	542.92	16	13.5	679.45	6	16.7	175	839	152.5	1466	4150	0/18
7	4AB450/A1	800	160	920	924	800	360	1163	122	120	30	360	379	0	450.0	27	1771	1841	744	35	787.4	673.1	920	7	12	16.7	641.3	16	13.5	850.9	12	16.7	248	892	139	1409	3910	00/21
8	4AB450/B1	800	160	920	924	1000	360	1321	122	120	30	360	379	0	450.0	27	1775	2004	744	35	787.4	673.1	920	7	12	16.7	641.3	16	13.5	850.9	12	16.7	248	917	161	1614	4296	00/21

All dimensions are in mm.

### RATING CHART FOR 3 PHASE DB\* AC GENERATOR

FRAME	3 ph, 415V, 0.8pf, 50Hz, 1500rpm		
	kVA	kW	%EFF.
4AB400/B2	750.0	600.0	94.6
4AB400/D2	1000.0	800.0	95.4
4AB400/G2	1250.0	1000.0	95.5
4AB450/B2	1500.0	1200.0	94.8
4AB450/D2	1750.0	1400.0	95.0
4AB500/B2	2000.0	1600.0	95.8

\*DOUBLE BEARING

### RATING CHART FOR 3 PHASE SB\* AC GENERATOR

FRAME	3 ph, 415V, 0.8pf, 50Hz, 1500rpm		
	kVA	kW	%EFF.
4AB400/B1	750.0	600.0	94.6
4AB400/D1	1000.0	800.0	95.4
4AB450/A1	1250.0	1000.0	95.5
4AB450/B1	1500.0	1200.0	94.8
4AB450/D1	AVAILABLE ON REQUEST		
4AB500/B1	AVAILABLE ON REQUEST		

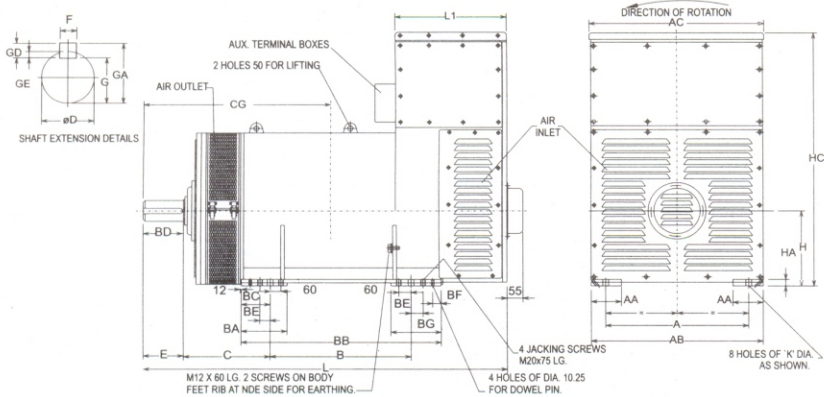
\*SINGLE BEARING

Efficiencies are subject to IS tolerance.

### Salient features :-

- Compact design with high power to weight ratio.
- Aesthetically designed.
- Class "F" insulation.
- Voltage regulation is maintained within  $\pm 1\%$ . Redundant facility as an option available.
- PMG option available.
- Better thyristor load handling capability.
- Guaranteed voltage buildup, no need for field flashing.
- AC generators can cater 1.5 times the rated kVA or motor starting purpose.
- Accessories like space heaters and RTDs supplied as standard.
- BTDs can be supplied on request.

## DIMENSIONAL DETAILS OF DOUBLE BEARING AC GENERATORS



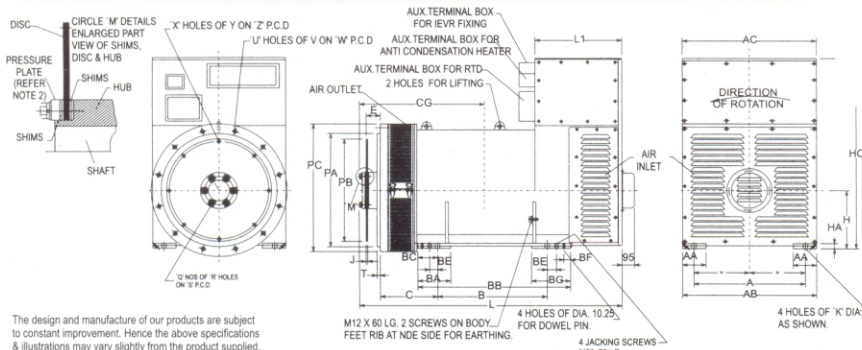
### Notes:- Double Bearing AC Generator

1. A minimum of one meter clear space around the machine is necessary for good ventilation. Air inlet and outlet should not be blocked.
2. Dimensions are subject to alteration without notice.
3. Doweling must be carried after completing load trials.

### Notes:- Single Bearing AC Generator

1. Discs are tightened to a torque of 30kg-m to hub for M16 screws.
2. Shims are provided on either side of the discs. If required shims can be repositioned to adjust the distances between the disc and adaptor for coupling purposes (in such case) retorquer hub fixing screws to values specified & lock.)
3. Dimensions are subject to alteration without notice.
4. A minimum of one meter clear space around the machine is necessary for good ventilation. Air inlet and outlets should not be blocked.
5. Other SAE combinations are available on request.

## DIMENSIONAL DETAILS OF SINGLE BEARING AC GENERATORS



The design and manufacture of our products are subject to constant improvement. Hence the above specifications & illustrations may vary slightly from the product supplied.

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