



# BHARATH ELECTRIC MOTORS

DC MOTORS

Quality is our AIM

Bharath Electric Motor is a leading name in the field of manufacture of a variety range of special type of DC Motors.



Bharath Electric Motors has come out with Bharath brand DC Motors for various application.

## Manufacture of

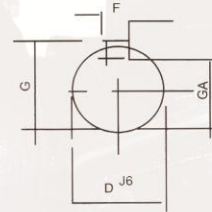
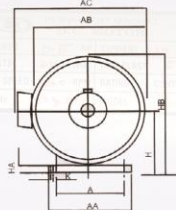
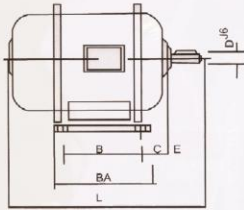
- › DC Motors with gear
- › DC generators
- › Torque Motors single phase
- › Torque Motors three phase
- › AC Motors with gear
- › AC induction Motors
- › Special type Motors
- › Alternators
- › Slip Ring Motors
- › Synchronous Motors
- › DC brushless Motors
- › DC Motors

## APPLICATION

- ▶ Printing and packing industry
- ▶ Plastic industry
- ▶ Sugar industry
- ▶ Cement industry
- ▶ Material handling
- ▶ Chemical and synthetics
- ▶ Paper machinery
- ▶ Steel industry
- ▶ Tyre machinery
- ▶ Machine tools
- ▶ Cable wire drawing machinery
- ▶ Engineering / polytechnic colleges / electrical machine lab.

## SALIENT FEATURE

- ▶ Design and performance as per IS 4722
- ▶ Special armature are available for high speed application
- ▶ Totally enclosed fan cooled type
- ▶ Dynamically balanced for vibration
- ▶ Free operation class F/H insulation
- ▶ Double side shield ball bearing factory lubricated for long service
- ▶ Vacuum impregnated HIDI electric strength winding with moisture proof coating.



They are compact in design, light in weight rotors are dynamically balanced and are ideally suited for general industrial purpose. Motors are designed for continuous or short time ratings.

Presently these are available in voltage 12/24/48/72/110/230/300/440 with shunt series or compound winding with enclosures DPSP & TE and insulation class B or class F. In addition, these can also be built to suit customer's specifications.

### DIMENSION CHART (All Dimension Are In Millimeters)

FRAME	A	AA	AB	AC	B	BA	C	D	E	F	G	GA	H <sup>+</sup>	HA	HB	K	L
FMD 80	125	155	160	-	100	130	50	14	30	5	16	11	80	10	196	9	280
FMD 90S	140	170	160	-	100	130	56	16	30	5	18.5	11	90	10	206	9	295
FMD 90L	140	170	160	-	125	156	56	16	35	5	18.5	13	90	10	206	9	325
FMD 100FS	160	190	200	245	84	114	65	16	44	5	18	13	100	10	206	11	305
FMD 112S	190	220	210	270	114	144	70	18	40	5	20.5	13	112	10	215	12	330
FMD 112M	190	220	210	270	140	170	70	22	50	5	24.5	18.5	112	10	215	12	360
FMD 112L	190	220	210	270	159	189	70	24	50	6	27.5	20.5	112	10	215	12	380
FMD 132S	216	256	250	295	140	180	89	28	60	8	32	24	132	12	352	12	445
FMD132M	216	256	250	295	178	218	89	28	60	8	32	24	132	12	352	12	490
FMD 160S	208	304	350	420	198	260	108	38	60	10	43	35	160	12	380	15	580

\*Tolerance +0.0 -0.5 The critical dimensions of 'F' series Machines conform to international standards I.E.C. 71-1, IS 1231-1967

### FRAME SELECTION TABLE FOR D.P.S.P. FOOT MOUNTED D.C. MOTORS / GENERATORS:

SPEED (RPM)	1/8	1/6	1/4	1/2	3/4	1	1.5	2	3	5	7.5	10HP
1000	-	-	90S	112S	112M	112L	112L	132S	132M	160S	-	-
1500	71	71	90S	112S	112S	112M	112M	112L	132S	132M	160S	160S
3000	71	71	90S	90S	90S	112S	112M	112M	112L	132S	132M	160S
FRAME			90S	90S	90S	112S	112M	112L	132S	132S	132M	160S
OUTPUT(H.P)			1/8	1/6	1/4	1	1	2	3	5	7.5	10
Armature & field voltage (volt)			230	230	230	230	230	230	230	230	230/240	230/240
Speed (RPM)			2000	2000	1500	1500	1500	1500	1500	1500	1500	1500
Insulation (class)			F	F	F	F	F	F	H	H	H	H
Full Load Off%			60	50	67	65	72	77	87	87	80	80
SP Type Armature & Field voltage (volt)			230	230	230	230/440	230/440	230/440	230/440	230/440	230/440	230/440

## BHARATH ELECTRIC MOTORS

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Dealers