



THREE PHASE

INDUCTION MOTOR
GEAR MOTOR
TECHNICAL CATALOGUE



ABOUT US

"SSV Motors and Machinery LLP" is a prestigious business that has been dealing and offering a praiseworthy Single Phase Motor, Three Phase Motor, Gear Box and many more from 2021. As a new company, our primary objective is to become a leading engineering firm with a global perspective, providing superior quality goods and services to industrial sectors through dependable and cost-effective solutions in major industrial fields.



SPECIFICATION

KIND OF MOTOR	AC THREE PHASE SQUIREEL CAGE INDUCTION MOTOR
EFFICIENCY	ENERGY EFFICIENT AS PER ISI 12615:2018
ENCLOSURE	TEFC
FRAME	63 TO 180M
RATED POWER	0.18 KW TO 15 KW (0.25 HP TO 20 HP)
VOLTAGE + VARIATION	415 V $\pm$ 10%
FRAQUATIONCY+ VARIATION	50Hz $\pm$ 5%
RATED SPEED	2880, 1440, 960 RPM (2 POLE, 4 POLE, 6 POLE)
AMBIENT TEMPERATURE	50 C
DUTY/RATING	S1 /COUNTINUOUS
FRAME DIMENSIONS	AS PER IS 1231 & IS 2223
COOLING METHOD	SURFACE COOLING, INTERNAL COOLING
MOUNTING	B3 FOOT MOUNTING B5 FLANGE MOUNTING B3/B5 FOOT CUM FLANGE MOUNTING
INSULATION CLASS	CLASS 'F' AND TEMPERATURE RISE LIMITED TO CLASS 'B'
DEGREE OF PROTECTION	IP 55/54
DIRECTION OF ROTATION	ANTICLOCKWISE OR CLOCKWISE
POSITION OF TERMINAL BOX	TOP

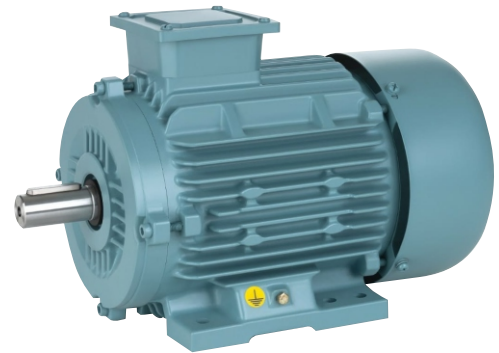


APPLICATION

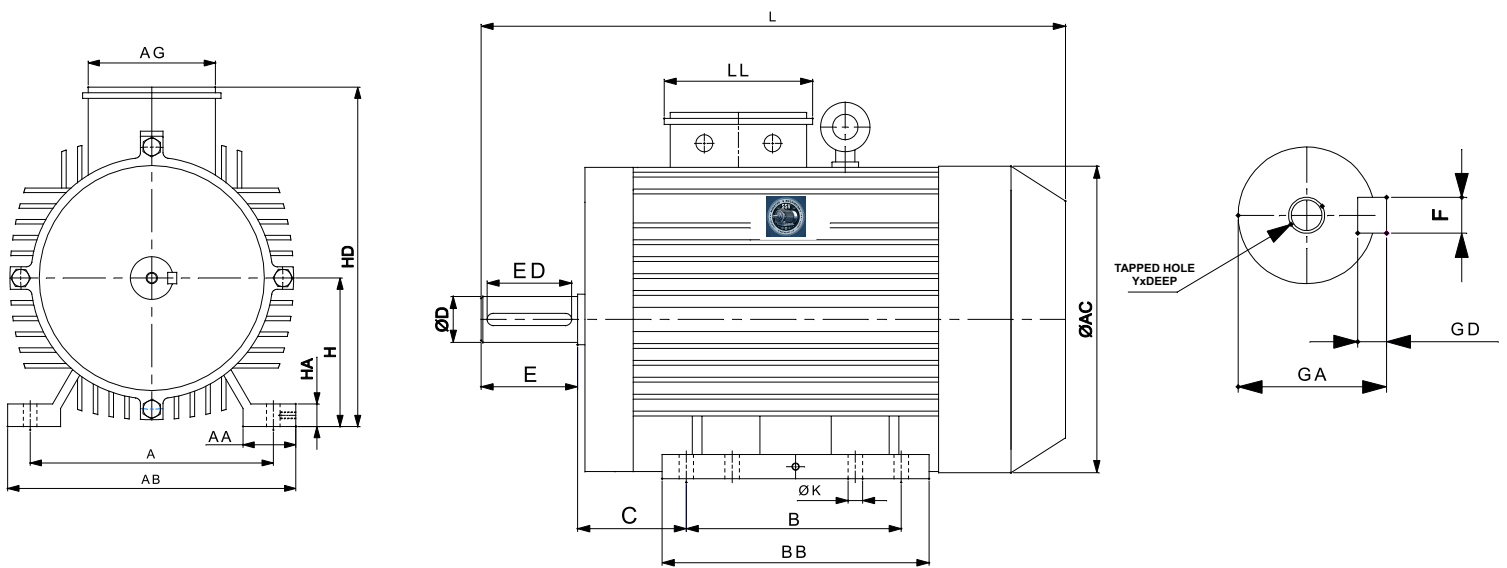
- AIR COMPRESSOR
- COOLING TOWERS
- DOMESTIC FLOOR MILLS, ROLLING MILLS
- PLASTIC MACHINERY
- WOOD WORKING MACHINERY
- LATHE MACHINE
- PRINTING MACHINERY
- POWER PRESS, HYDRAULIC PRESS
- TEXTILE MACHINERY
- BLOWER & VARIED MACHINES TOOLS
- MATERIAL HANDLING EQUIPMENT
- DIAMOND MACHINERY
- BELT CONVEYOR
- CRANES, HOISTS AND LIFTS
- MACHINE TOOLS ETC...

MECHANICAL FEATURES

FEATURES	STANDARD SPECIFICATION
Frames	All Motors Frame C.I. Casting
N seal	C.I. Casting
Shafts	Motor Shaft are made of EN8E Steel
Bearing	Gassed High Quality Pre-packed Shielded Rolling Bearings
Terminal Box	Industrial Nylon Grade
Stator Ins.	F Class Insulation System
Paintings	Phenolic Rust Proof Base Plus Lacquer Surface Finished
	Paintings in Sky Blue and Water Gray
Bolt Thread	ISO Metrix System
Packing	Heavy Corrugated Box / Wooden Box
V Ring Seals	63 to 180 Frames are With V Ring Seals



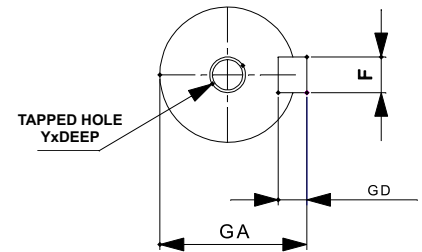
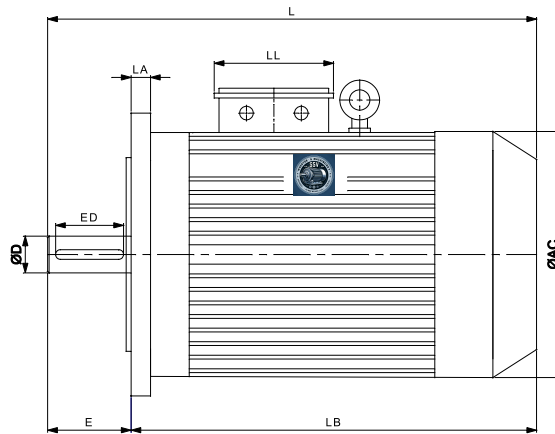
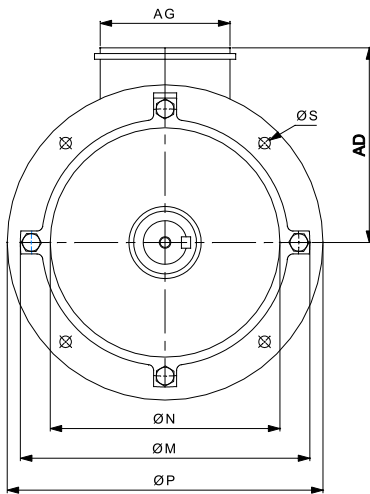
FOOT MOUNTED DIMENSION (B3)



FRAME	FOOT FIXING									SHAFT AND KEY											
SIZE	H	A	B	C	AA	AB	BB	HA	K	D	E	ED	F	GA	GD	YxDEEP	AG	L	LL	HD	AC
63	63	100	80	40	25	122	96	9	7	11	23	18	4	12.5	4	M4x10	85	220	85	170	120
71	71	112	90	45	29	133	110	10	7	14	30	25	5	16	5	M5x12	85	225	85	175	135
80	80	125	100	50	36	156	145	12	10	19	40	30	6	21.5	6	M6x16	100	295	100	205	158
90S	90S	140	100	56	41	170	158	12	10	24	50	40	8	27	7	M8x19	100	330	100	220	175
90M	90M	140	125	56	41	170	158	12	10	24	50	40	8	27	7	M8x19	100	330	100	220	175
100	100	160	140	63	17	190	171	12	12	28	60	50	8	31	7	M10x22	110	375	110	253	199
112	112	190	140	70	50	220	171	15	12	28	60	50	8	31	7	M10x22	110	380	110	278	218
132S	132	216	140	89	50	255	178	15	12	38	80	70	10	41	8	M12x28	110	450	110	322	256
132M	132	216	178	89	50	255	205	15	12	38	80	70	10	41	8	M12x28	110	500	110	322	256
160M	160	254	210	108	68	308	250	20	15	42	110	100	12	45	8	M16x36	170	655	170	390	303
160L	160	254	254	108	68	308	288	20	15	42	110	100	12	45	8	M16x36	170	705	170	390	303
180M	180	279	241	121	72	348	298	25	15	48	110	100	14	51.5	9	M16x36	260	714	260	430	355
180L	180	279	279	121	72	348	328	25	15	48	110	100	14	51.5	9	M16x36	260	745	260	430	355



FLANGE MOUNTED DIMENSION (B5)

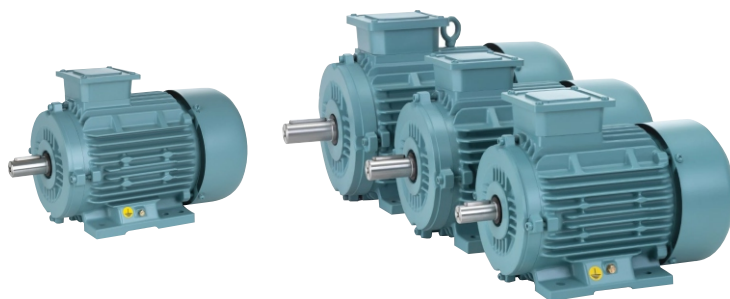


FRAME	FLANGE FIXING						SHAFT AND KEY												
SIZE	N	M	P	LA	T	S	D	E	ED	F	GA	GD	YxDEEP	AD	AG	L	LL	LB	AC
63	95	115	140	9	3	10	11	23	18	4	12.5	4	M4x10	100	85	220	85	197	120
71	110	130	160	9	3.5	10	14	30	25	5	16	5	M5x12	104	85	225	85	200	135
80	130	165	200	10	3.5	12	19	40	30	6	21.5	6	M6x16	125	100	295	100	255	158
90S	130	165	200	10	3.5	12	24	50	40	8	27	7	M8x19	130	100	330	100	280	175
90M	130	165	200	10	3.5	12	24	50	40	8	27	7	M8x19	130	100	330	100	280	175
100	180	215	250	11	4	15	28	60	50	8	31	7	M10x22	153	110	375	110	315	199
112	180	215	250	11	4	15	28	60	50	8	31	7	M10x22	166	110	380	110	320	218
132S	230	265	300	12	4	15	38	80	70	10	41	8	M12x28	190	110	450	110	370	256
132M	230	265	300	12	4	15	38	80	70	10	41	8	M12x28	190	110	500	110	421	256
160M	250	300	350	13	5	19	42	110	100	12	45	8	M16x36	230	170	655	170	545	303
160L	250	300	350	13	5	19	42	110	100	12	45	8	M16x36	230	170	705	170	595	303
180M	250	300	350	13	5	19	48	110	100	14	51.5	9	M16x36	250	260	714	260	604	355
180L	250	300	350	13	5	19	48	110	100	14	51.5	9	M16x36	250	260	745	260	635	355



ELECTRICAL PERFORMANCE

3 Phase TEFC Squirrel Cage AC Induction Motor
AC Supply 415V +10%, 50Hz +5%



2 POLE 2880 RPM

OUTPUT		FRAME	FL CURRENT	FL SPEED	RATED TORQUE	EFFICIENCY		POWER FACTOR
KW	HP		(AMPS)	(RPM)	(KG-M)	IE2	IE3	COS ϕ
0.37	0.5	71	1.1	2820	0.13	69.5	73.8	0.7
0.75	1	80	2	2780	0.26	77.4	80.7	0.8
1.1	1.5	80	2.8	2790	0.38	79.6	82.7	0.78
1.5	2	90S	3.7	2800	0.51	81.3	84.2	0.81
2.2	3	90L	5	2810	0.75	83.2	85.9	0.82
3.7	5	100L	8	2820	1.27	85.5	87.8	0.83
3.5	7.5	132S	11	2830	1.85	87	89.2	0.85
7.5	10	132S	15	2840	2.52	88.1	90.1	0.88
9.3	12.5	132M	17	2850	3.13	88.6	90.6	0.88
11	15	160M	21.5	2860	3.62	89.4	91.2	0.89
15	20	160M	29	2870	5.01	90.3	91.9	0.89

4 POLE 1440 RPM

OUTPUT		FRAME	FL CURRENT	FL SPEED	RATED TORQUE	EFFICIENCY		POWER FACTOR
KW	HP		(AMPS)	(RPM)	(KG-M)	IE2	IE3	COS ϕ
0.37	0.5	71	1.4	1330	0.26	72.7	77.3	0.66
0.75	1	80	2.2	1360	0.51	79.6	82.5	0.77
1.1	1.5	90S	2.9	1370	0.74	81.4	84.1	0.78
1.5	2	90L	3.8	1380	1.01	82.8	85.3	0.81
2.2	3	100L	5.1	1390	1.48	84.3	86.7	0.82
3.7	5	112M	8.1	1410	2.48	86.3	88.4	0.83
3.5	7.5	132S	12	1420	3.68	87.7	89.6	0.85
7.5	10	132M	15.4	1430	5.02	88.7	90.4	0.86
9.3	12.5	160M	17	1435	6.2	89.2	91	0.86
11	15	160M	22	1440	7.2	89.8	91.4	0.81
15	20	160L	30	1440	9.91	90.6	92.1	0.82

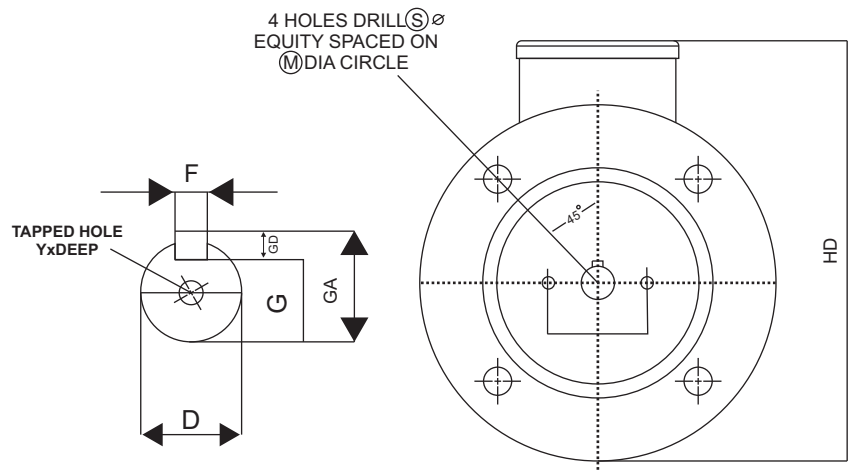
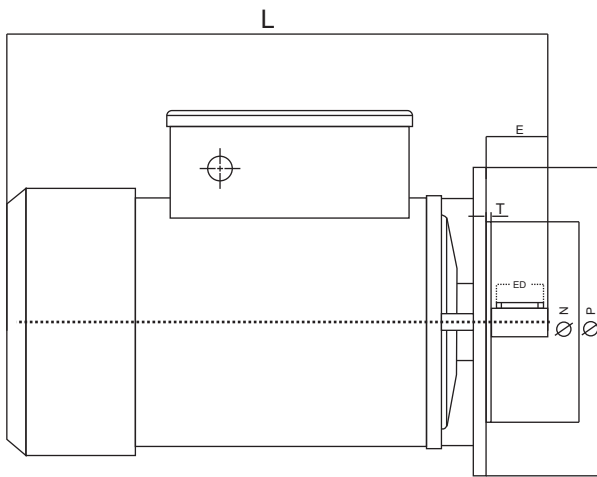
6 POLE 960 RPM

OUTPUT		FRAME	FL CURRENT	FL SPEED	RATED TORQUE	EFFICIENCY		POWER FACTOR
KW	HP		(AMPS)	(RPM)	(KG-M)	IE2	IE3	COS ϕ
0.37	0.5	80	1.4	870	0.4	67.6	73.5	0.66
0.75	1	90S	2.3	890	0.77	75.9	78.9	0.77
1.1	1.5	90L	3.4	900	1.14	78.1	81	0.78
1.5	2	100L	4	900	1.57	79.8	82.5	0.81
2.2	3	112M	5.7	910	2.27	81.8	84.3	0.82
3.7	5	132S	8.8	920	3.76	84.3	86.5	0.85
3.5	7.5	132M	12.9	92	5.64	86	88	0.82
7.5	10	132M	16.7	930	7.62	87.2	89.1	0.85
9.3	12.5	160L	16.9	930	9.19	88.1	89.8	0.81
11	15	160L	23.3	935	11.06	88.7	90.3	0.8
15	20	180L	32	940	15.23	89.7	91.2	0.79



1 Phase B5 Flange Motor

AC Supply 215V, 50Hz,
(Sheet Body)



FRAME	N	M	P	S	T	D	E	ED	F	G	GD	GA	L	HD	YxDEEP
63/B56	95	115	140	10	3	11	23	18	4	8.5	4	12.5	312	185	M4x10
71/B56	110	130	140	10	3	14	30	25	5	11	5	16	312	185	M5x12
80/B56	130	165	200	12	3.5	19	40	30	6	15.5	6	21.5	385	260	M6x16
90/B56	130	165	200	12	3.5	24	50	40	8	20	7	27	385	260	M8x19



MOTOR

ALUMINIUM GEAR MOTOR



RANGE	0.25HP TO 3HP
FRAMES	63 TO 100L
POLES	2,4,6
MOUNTINGS	B3/B5/B35



CI BODY SINGLE PHASE MOTOR



RANGE	0.5HP TO 3HP
FRAMES	71 TO 112
POLES	2,4,6
MOUNTINGS	B3



SHEET BODY SINGLE PHASE MOTOR



RANGE	0.5HP TO 2HP
FRAMES	B56 TO 100S
POLES	2,4
MOUNTINGS	B3/B5



BRAKE MOTORS (AC & DC BOTH AVAILABLE)



RANGE	0.5HP TO 10HP
FRAMES	71 TO 132M
POLES	2,4,6
MOUNTINGS	B3/B5



NMRV WORM GEARBOX



RANGE	0.18kw up to 15kw
RATIO	7.5 : 1 up to 100 : 1
SIZE	NMRV30,40,50,63,75,90,110,130,150
MOUNTINGS	B3/B5



FLANGE (B5)



FOOT (B3)



SINGLE PHASE INDUCTION MOTOR (B3,B5)



Let's
SAVE THE
WORLD
TOGETHER



**Save Electricity
For Your Better
Tomorrow**



Digital India
Power To Empower



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