

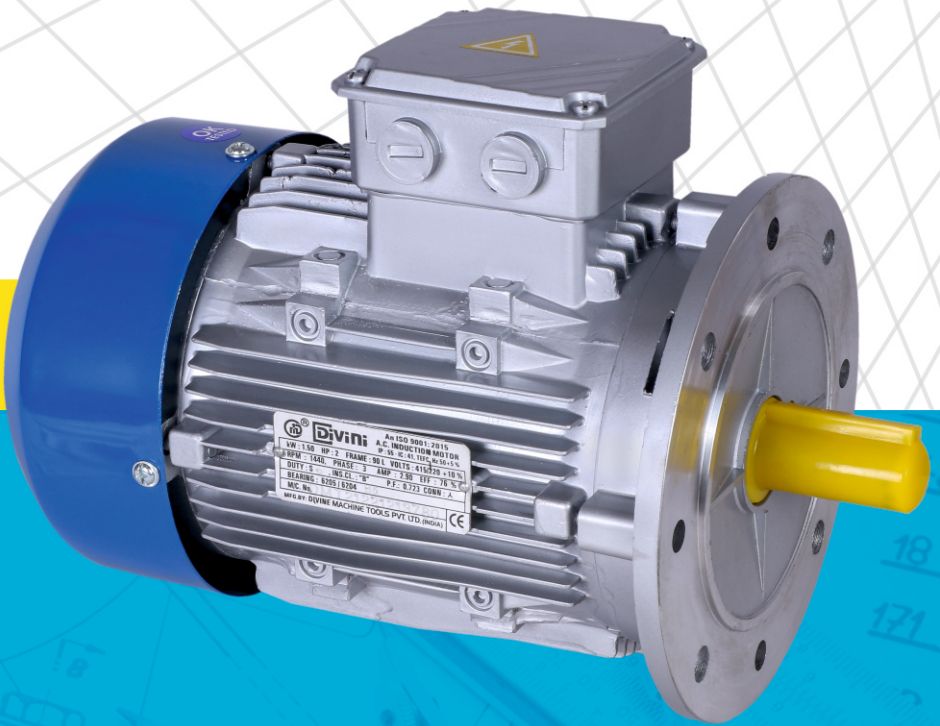


AN ISO 9001:2015 Certified Co.



Divine
MACHINE TOOLS PVT. LTD.

MFG. OF : ALL TYPE OF 3 PHASE &
SINGLE PHASE ELECTRIC MOTOR



Machine's LifeTM



"To Be The Very Trusted Indian Electrical Motor Manufacturer Company Through Technology And Customer's Need."

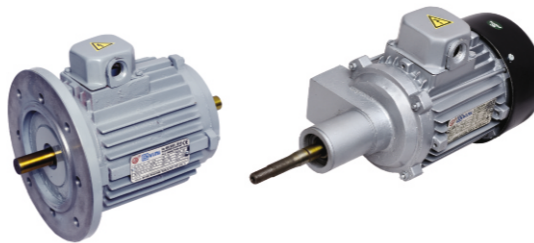
ABOUT US

"Divine Machine Tools Private Limited" started the electrical engineering industry in Ahmedabad to since 2011. we are planning to be multi-product, multi-divisional organization, our main business segments are Electric Motors & Gearbox.

The Company's manufacturing facilities are located at Ahmedabad, Gujarat. We are maintaining a strong growth path with philosophy of keeping customer, give service and quality with highest possible standard. It's our excellence strategic tool that drives continuous improvement in our results. We are manufacturing special products that deliver superior value to our Customer.

"Customer is GOD for us,"
"So we are giving respect , service & quality to our GOD"

THREE PHASE MOTOR



THREE PHASE MOTOR



Frame	K.W.	H.P.	R.P.M.	I.Class	Duty	Enclosure	Protection
63	0.18	0.25	2900	B. & F.	S1,	TEFC	IP 44
to	to	to	1500		S2,	TESC	IP 55
160 L	15	20	1000		S3,		IP 54
	kw	hp	750 rpm		S4		

All Motor As Per IS:325 For Electrical IS-1231 For Mechanical Dimension. Flange Mounting are Motor IS-2223 For Flange Mounting Dimension. Face Mounting ARO Motor IS-Per 325 & 2223

D.C. BRACK MOTOR



Frame	K.W.	H.P.	R.P.M.	I.Class	Duty	Enclosure	Protection
71	0.18	0.25	2900	B. & F.	S3,	TEFC	IP 44
to	to	to	1500		S4	TESC	IP 55
132 L	5.5	7.5	1000				IP 54
	kw	hp	750 rpm				

A Brack Motor Is an Integrai Combination of Ac Induction Motor And Disk Type Fails Safe Electromagnetic Brack Unit, these Motor Are Available With Any To Combination Foot, flange Or Face Mounting.

TEXTILE MOTOR



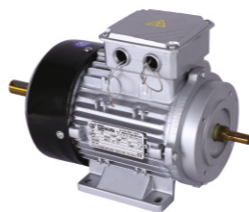
K.W.	H.P.	R.P.M.	I.Class	Enclosure	Protection	Duty
0.33	0.5	1500	B. & F.	TEFC	IP 44	S1
to	to	rpm		TESC	IP 55	
0.75	1.0					
kw	hp					

TORQUE MOTOR



K.W.	H.P.	R.P.M.	I.Class	Enclosure	Protection	Duty
0.18	0.25	1500	B. & F.	TEFC	IP 44	S1
to	to	1000				
5.5	7.5	750				
kw	hp	rpm				

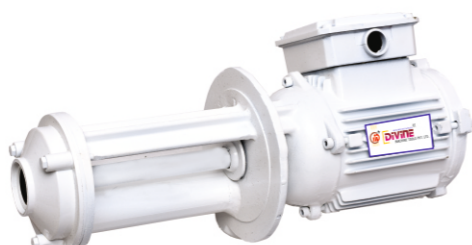
We also offered Torque Motor as per Suitable Application.



VIBRATING MOTOR

K.W.	H.P.	R.P.M.	I.Class	Enclosure	Protection	Duty
0.18 to 2.2 kw	0.25 to 5.0 hp	1000 to 1500 2900 rpm	B. & F.	TEFC	IP 44	S1

Application : Conveying, Compacting, Cleaning, Crushing, Filtration etc.



COOLANT PUMP

K.W.	H.P.	R.P.M.	I.Class	Phase	Protection	Duty
0.18 to 2.2 kw	0.25 to 5.0 hp	1500 to 2900 rpm	B. & F.	Single & Three Phase	IP 55	S1

Application : Optical Machinery & All type of Machinery.



BURNER MOTOR (BENTON TYPE)

K.W.	H.P.	R.P.M.	I.Class	Phase	Protection	Duty
0.18 to 0.75 kw	0.25 to 1.0 hp	2900 rpm	B	Single Phase	IP 55	S1

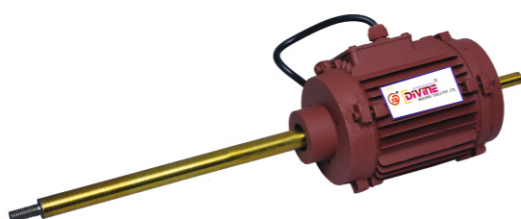
Application : Gas Burner



A.C. BRACK MOTOR

K.W.	H.P.	R.P.M.	I.Class	Enclosure	Protection	Duty
0.18 to 7.5 kw	0.25 to 10.0 hp	1500 to 1000 750 rpm	B. & F.	TEFC	IP 55	S1

CHEESE WINDER MOTORS



K.W.	H.P.	R.P.M.	I.Class	Protection	Duty	Application
0.18 to 0.75 kw	0.25 to 1.0 hp	2880 rpm	F	IP 55	S1	Cheese Winder Machine



	SPECIFICATION K.W : 0.18 To 1.5 H.P : 0.25 To 2.0 Body Type : TFC & DP Mounting : Flange & Foot	
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SINGLE PHASE MOTOR

We Having A Skills Acquired Our Company Through Its Long Owing To Large Production Capacity of Our Manufacturing Unit. We Are Able To Fulfill Bulk And Urgent Requirements Of Single Phase Ac Induction Motors. Single Phase Ac Induction Motor Distributes Alternating Current Electric power By Using A System In Which Valtage Of Supply Very In Unison. Quality Approved Components And Latest Tedhniques Utilized In Manufacturing These Motors Ensure Their Premium Quality Standards.

RANGE OF PRODUCTION

0.25 H.P. To 3 H.P. (0.18 K.w To 2.2 K.w) Frame 63 To 112m In 2& 4 pole.

MOUNTING

Single Phase Motor Available In : Foot (B3) , Flange (B5) , Face (B14), Combination

FRAME

Single Phase Motor Are Supplied In A Robust, Rugged Cast Iron Frame With Integral Feet. On Request We Can Supply Motor In Aluminum Body Up To 100 L Frame.

VOLTAGE AND FREQUENCY

Single Phase Motor Are Supply Volts 220 + -5% 3 Phase 50hz. + -3%
We Are Also Able To Supply Motor In 110 Volts On Hz.60 Also.

INSULATION

Single Phase Motor Supply With Class B Insulation As Standard Feature. Also Supply "F" On Request Of Customer.

SHAFT DIRECTION

All Single Phase Motor Supply With Clock Wise Shaft Rotation. It Also Possible Of Reveres Rotation. We Are Manufacture Single Reversible Single Phase Motor.

CENTRIFUGAL SWITCH

Centrifugal Switch Is Hart Of Single Phase Motor. A Centrifugally Operated Automatic Mechanisum Used In Conjunction With Split Phase And Other Type Of Single Phase Induction Motors. Centrifugal Cut our Switches Will Open Or Disconnect The Starting Winding When The Rotor Has Reached A Predetermined Speed And Reconnect It When The Motor Speed Falls Below It Without Such Device. The Starting Winding Is Susceptible To Rapid Overheating And Subsequent Burnout.

WINDING DESIGN

Capacitor Start Induction Run Motor With High Starting Torques Suitable For Use In Machine Tools, Small Compressors, Booster Pumps, Atta Chakki Etc. Where High Lord Inertia And Or Frequent Starting Or Stopping Is Involved. Resistant Start Induction Run Motor With Moderately High Starting Torque Ideally Suited For Optimum Performance In Application Like Commercial Juicer, Industrial Sewing Machine, Surgical Pumps Etc.

SHAFT & ROTOR

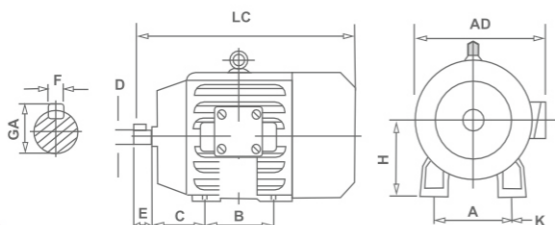
Single Phase Motor Rotor Is Positive Locking With Shaft Key Joint So That Cannot Move On High Full Lord Torque. Shafts Are Made By En-8 Or En-9 Material. Single Phase Motor Are Of High Pressure E.C. Grad Aluminum Die-Cast. Every Rotor Is Dynamically Balanced. Its Make Motor Low Amplitudes Of Vibrations & Noise.

BEARINGS & LUBRICATION

Single phase motor bearings are adequately lubricated with lithium based high temp up to 150 deg. All motor are supplied with c3 ball bearing & fully charged with lithium base grease at the time assembly.



FOOT MOUNTED MOTORS

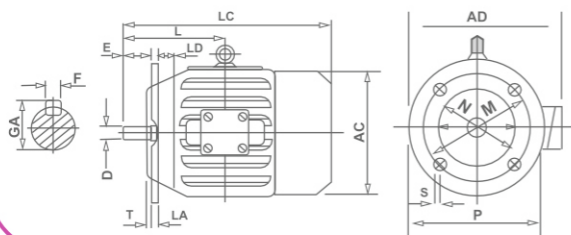


DIMENSIONS

FRAME	A	AD	B	C	D	E	F	GA	H	KI	LC	3000	1500	1000	750
63	100	115	80	40	11	23	4	12.5	63	7	206	0.25/0.33	0.16/0.25	-	-
71	112	140	90	45	14	30	5	16	71	7	235	0.50/0.75	0.33/0.50	-	-
80	125	200	100	50	19	40	6	21.5	80	10	300	1.0/1.5	0.75/1.0	0.50/0.75	-
90S	140	231	100	56	24	50	8	27	90	10	333	2	1.5	1	0.50
90L	140	231	125	56	24	50	8	27	90	10	333	3	2	1.5	0.75
100L	160	260	140	63	28	60	8	31	100	12	373	5	3	2	1/1.5
112M	190	283	140	70	28	60	8	31	112	12	390	-	5	3	2
132S	216	317	140	89	38	80	10	41	132	12	440	7.5/10	7.5	5	3
132M	216	320	178	89	38	80	10	41	132	12	490	12.5	10	7.5	-
160M	254	381	210	108	42	110	12	45	160	15	582	15/20	12.5/15	10	5/7.5
160L	254	381	254	108	42	110	12	45	160	15	625	25	20	12.5/15	10
180M	279	448	241	121	48	110	14	51.5	180	15	670	30	25	-	12.5
180L	279	448	279	121	48	110	14	51.5	180	15	705	-	30	20	15

OUTPUT HP. AT RPM

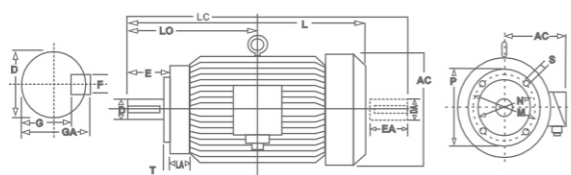
FLANGE MOUNTED MOTORS



DIMENSIONS

FRAME	AC	AD	D	E	F	GA	L	LA	LC	LD	M	N	P	S	T
63	127	115	11	23	4	12.5	103	9	206	16	115	95	140	10	3
71	142	140	14	30	5	16	120	9	235	16	130	110	160	10	3.5
80	161	200	19	40	6	21.5	140	10	300	16	165	130	200	12	3.5
90S	180	231	24	50	8	27	156	10	333	16	165	130	200	12	3.5
90L	180	231	24	50	8	27	168.5	10	333	16	165	130	200	12	3.5
100L	201	260	28	60	8	31	193	11	373	24	215	180	250	15	4
112M	225	283	28	60	8	31	200	11	390	24	215	180	250	15	4
132S	264	317	38	80	10	41	239	12	440	24	265	230	300	15	4
132M	264	320	38	80	10	41	258	12	490	24	265	230	300	15	4
160M	330	381	42	110	12	45	323	13	582	32	300	250	350	19	5
160L	330	381	42	110	12	45	345	13	625	32	300	250	350	19	5
180M	363	448	48	110	14	51.5	351.5	13	670	32	300	250	350	19	5
180L	363	448	48	110	14	51.5	370.5	13	705	32	300	250	350	19	5

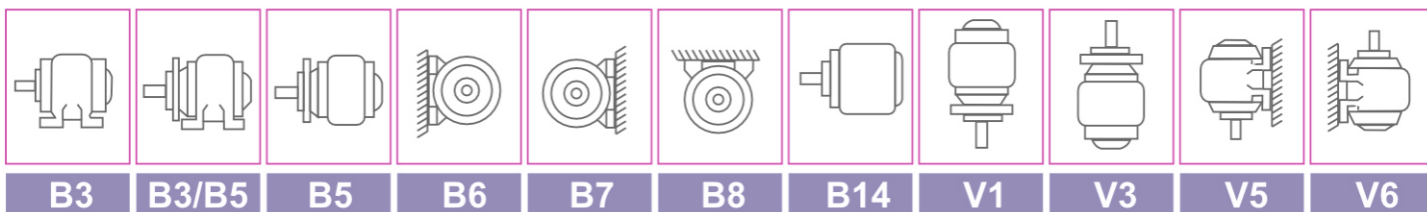
FACE MOUNTED MOTORS



DIMENSIONS

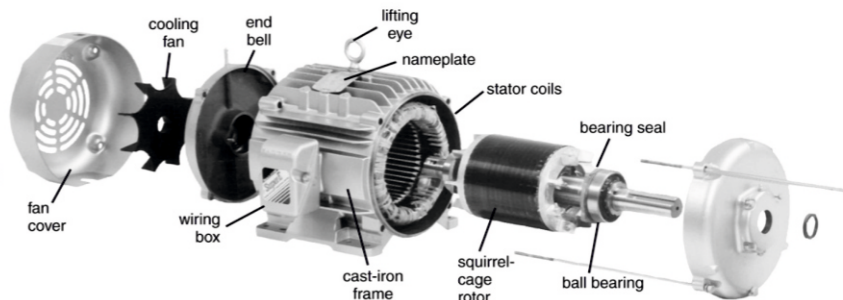
FRAME	M	N	P	S	T	L	LO	AD	AC	D/DA	E/EA	F	G	GA	LC
71	85	70	105	M6	2.5	248	126	111	140	14	30	5	11.0	16.0	275
80	100	80	120	M6	3.0	270	138	130	162	19	40	6	15.5	21.5	317
90S	115	95	140	M8	3.0	304	149	135	181	24	50	8	20.0	27.0	360
90L	115	95	140	M8	3.0	327	160	135	181	24	50	8	20.0	27.0	385
100L	130	110	160	M8	3.5	361	185	152	206	28	60	8	24.0	31.0	430
112M	130	110	160	M8	3.5	383	191	161	230	28	60	8	24.0	31.0	450
132S	165	130	200	M10	3.5	440	230	190	272	38	80	10	33.0	41.0	530
132M	165	130	200	M10	3.5	477	249	190	272	38	80	10	33.0	41.0	567

TYPE OF CONSTRUCTION





There - Phase Motor Designed
for range of rated voltage
145 V $\pm$ 10% - 50Hz $\pm$ 5%
Insulation class F with
temperature rise limited to class B



2 POLE=3000 RPM

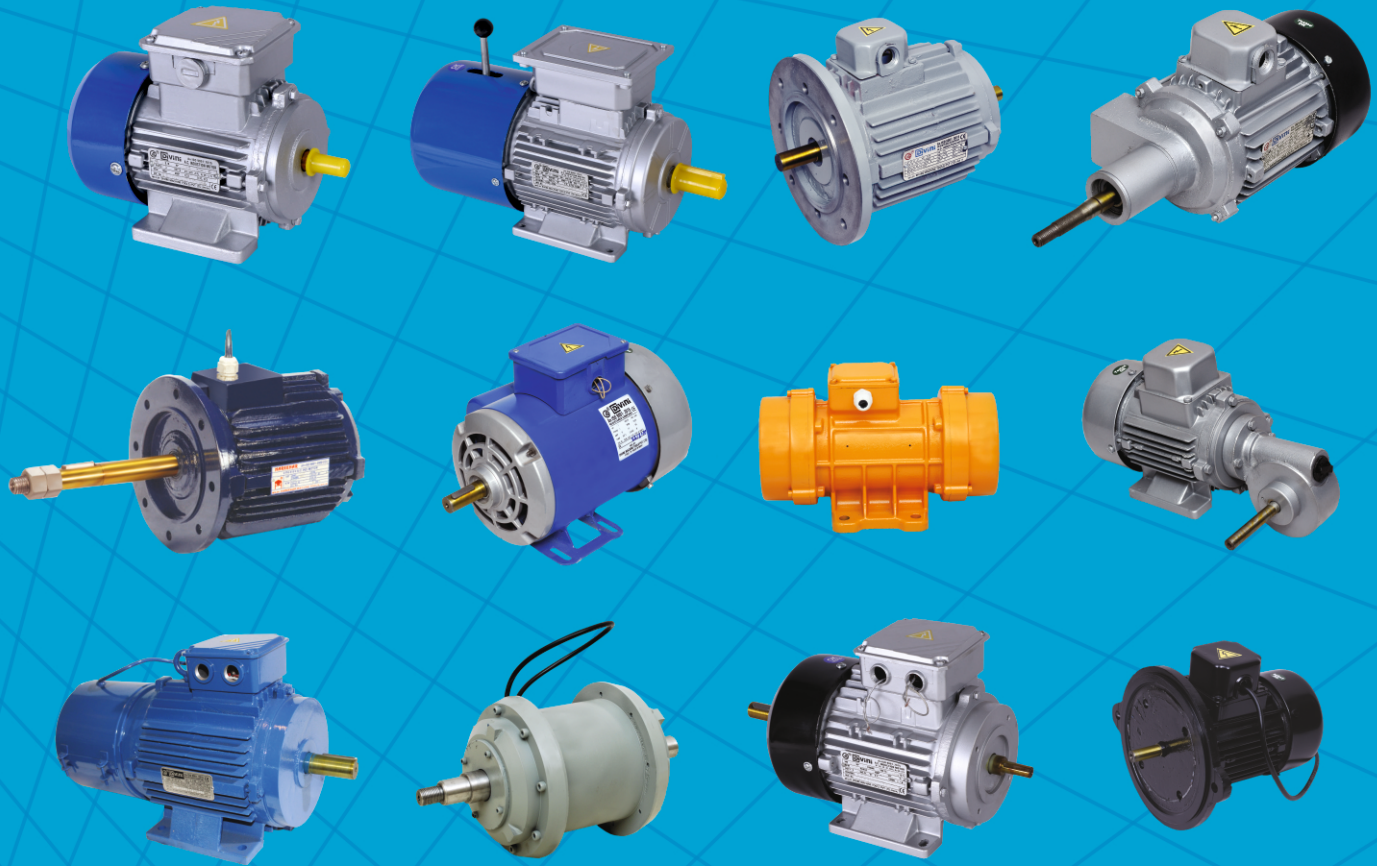
FRAME	KW	HP	EFF %	CURRENT [A]	COS [Ø]	RPM	TORQUE
							RATED KG.M
63	0.18	0.25	60.0	0.60	0.76	2800	0.07
71	0.37	0.50	68.0	1.0	0.76	2800	0.13
71	0.55	0.75	70.0	1.35	0.76	2810	0.19
80	0.75	1.0	75.0	1.70	0.78	2820	0.26
80	1.1	1.5	78.0	2.40	0.80	2820	0.37
90S	1.5	2.0	80.0	3.20	0.80	2850	0.51
90L	2.2	3.0	81.0	4.40	0.80	2855	0.75
100L	2.2	3.0	82.0	4.40	0.81	2855	0.75
100L	3.7	5.0	83.0	7.30	0.82	2900	1.24
112M	3.7	5.0	84.0	7.30	0.83	2900	1.24
132S	5.5	7.5	86.0	10.6	0.84	2900	1.85
132M	7.5	10.0	86.0	14.2	0.84	2910	2.50
160M	9.30	12.5	88.0	16.5	0.86	2930	3.10
160M	11.0	15.0	88.0	19.5	0.87	2930	3.60
160L	15.0	20.0	89.0	25.5	0.88	2930	5.00

4 POLE=1500 RPM

FRAME	KW	HP	EFF %	CURRENT [A]	COS [Ø]	RPM	TORQUE
							RATED KG.M
63	0.12	0.16	55.0	0.46	0.66	1376	0.09
63	0.18	0.25	57.0	0.66	0.68	1363	0.13
71	0.25	0.33	60.0	0.80	0.70	1374	0.18
71	0.37	0.50	64.0	1.10	0.69	1370	0.26
80	0.55	0.75	72.0	1.40	0.74	1395	0.38
80	0.75	1.00	73.0	1.90	0.75	1390	0.52
90S	1.10	1.50	75.0	2.80	0.75	1410	0.76
90L	1.50	2.00	78.0	3.40	0.77	1415	1.03
100L	2.20	3.00	81.0	4.80	0.80	1435	1.49
112M	3.70	5.00	84.0	7.60	0.82	1445	2.49
132S	5.50	7.50	86.0	11.0	0.82	1450	3.69
132M	7.50	10.0	87.0	15.0	0.83	1450	5.04
160M	9.30	12.5	88.0	18.0	0.84	1460	6.20
160M	11.0	15.0	89.0	21.5	0.84	1465	7.30
160L	15.0	20.0	90.0	28.4	0.84	1465	9.97

6 POLE=1000 RPM

FRAME	KW	HP	EFF %	CURRENT [A]	COS [Ø]	RPM	TORQUE
							RATED KG.M
71	0.18	0.25	55.0	0.9	0.63	890	0.2
80	0.37	0.50	65.0	1.20	0.67	930	0.40
80	0.55	0.75	68.0	1.60	0.68	930	0.59
90S	0.75	1.00	74.0	2.00	0.72	935	0.78
90L	1.10	1.50	74.0	2.90	0.70	940	1.15
100L	1.50	2.00	75.0	3.90	0.72	938	1.56
112M	2.20	3.00	82.0	5.00	0.77	950	2.25
132S	3.70	5.00	84.0	8.00	0.78	960	3.75
132M	5.50	7.50	84.0	11.8	0.80	955	5.61
160M	7.50	10.0	86.0	15.8	0.80	970	7.53



OUR OTHER RANGE OF MOTOR

- ➔ STANDARS MOTOR
- ➔ CRANE DUTY MOTOR
- ➔ HIGH TORQUE MOTOR
- ➔ BRAKE MOTOR
- ➔ BURNER MOTOR
- ➔ HIGH SLIP MOTOR
- ➔ TEXTILE MOTOR
- ➔ CHEESE WINDER MOTOR
- ➔ DUAL VOLTAGE FREQUENCY MOTOR
- ➔ TORQUE MOTOR
- ➔ VIBRATORY MOTOR
- ➔ MOTOR WITH SPECIAL FLANGE / SHAFT



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