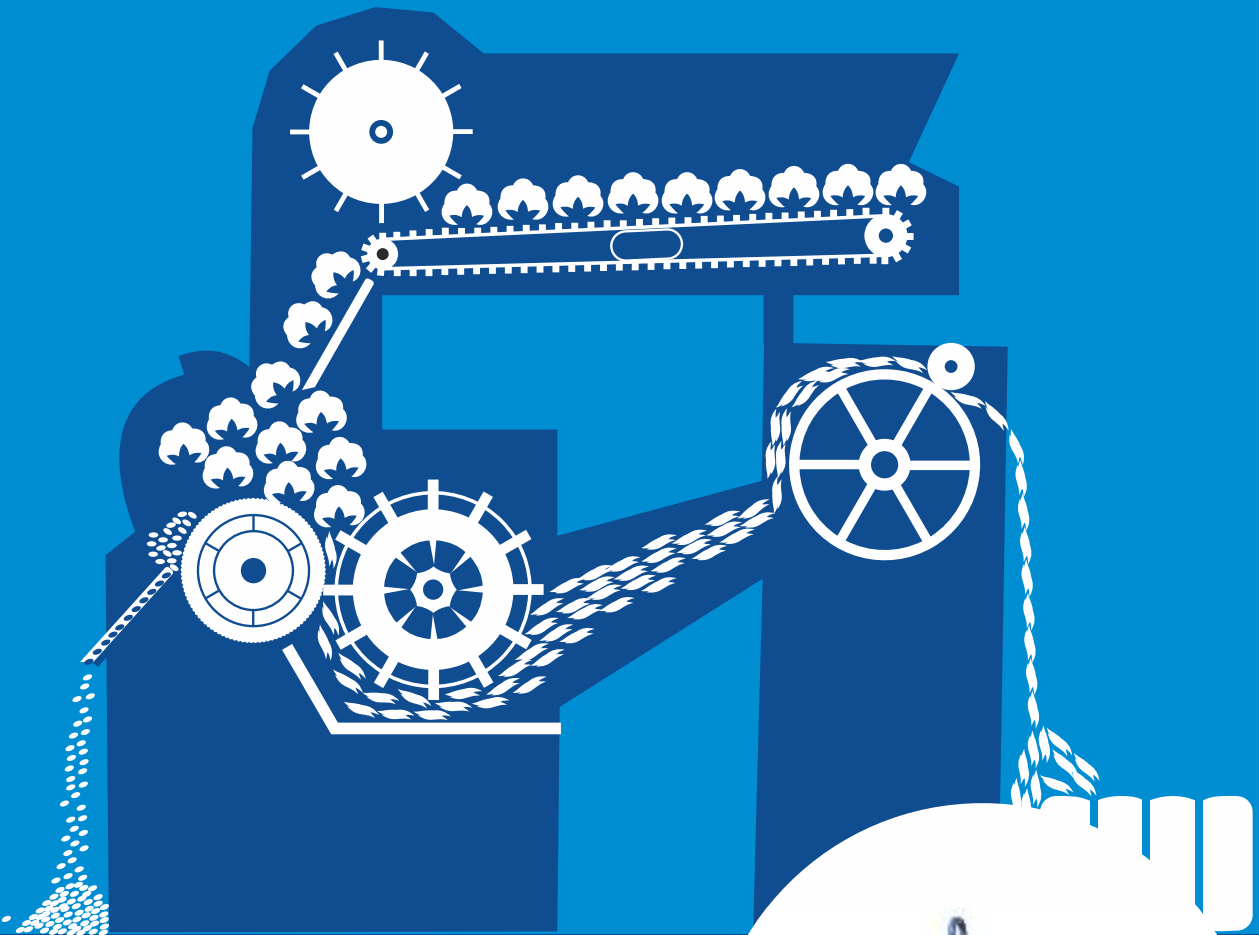




GINNING MOTOR

Special Design For Cotton Industry





Over the last 65 years we have become a reflection of the strength and purpose that today represent Indian industry and its growing power internationally. Bharat Bijlee has evolved from a pioneer of electrical engineering in India to one of the most trusted names in the Industry.

Our motors are the prime movers for various applications across industries. They are designed to operate reliably with low life cycle cost no matter how challenging the application. Deep industry specific expertise enables motors to be custom engineered for demanding and specialized applications.

Ginning Motor from Bharat Bijlee

The cotton-ginning machine is the very first equipment required by the textile industry for the processing of cotton. Cotton ginning requires unprocessed raw cotton as input. In the ginning industry, cotton fluff is rampantly present in the atmosphere, this fluff is prone to catch fire if it comes in contact with heat. That makes it compulsory to keep the surface temperature of the running motor under control and that is the reason Ginning Motor is offered in one Frame higher i.e. increased surface area for better heat dissipation and keeping the losses low to ensure low running cost also as this runs continuously during the season.

With Bharat Bijlee's expertise in the domain of customizing motors for different applications, our endeavor has been to offer the best quality motor with low running cost and reduced

life cycle cost. Keeping this in mind we have designed unique ginning motors which ensure low surface temperature and high efficiency. We have achieved this after studying the actual application in the field, having close discussions with the ginning machinery manufacturers and users. Bharat Bijlee offers Ginning Motors in Standard/IE2/IE3 Efficiency of 5 HP/7.5 HP/ 4P rating.

Technical specification

- 132 S and M Frame sizes
- Insulation Class F with temperature rise limited to Class B
- Cast Iron Body
- Cowl for clean air flow
- IE2/IE3 Motors with Inverter Grade Winding

WHY Bharat Bijlee Ginning Motors:



Energy Saving Chart

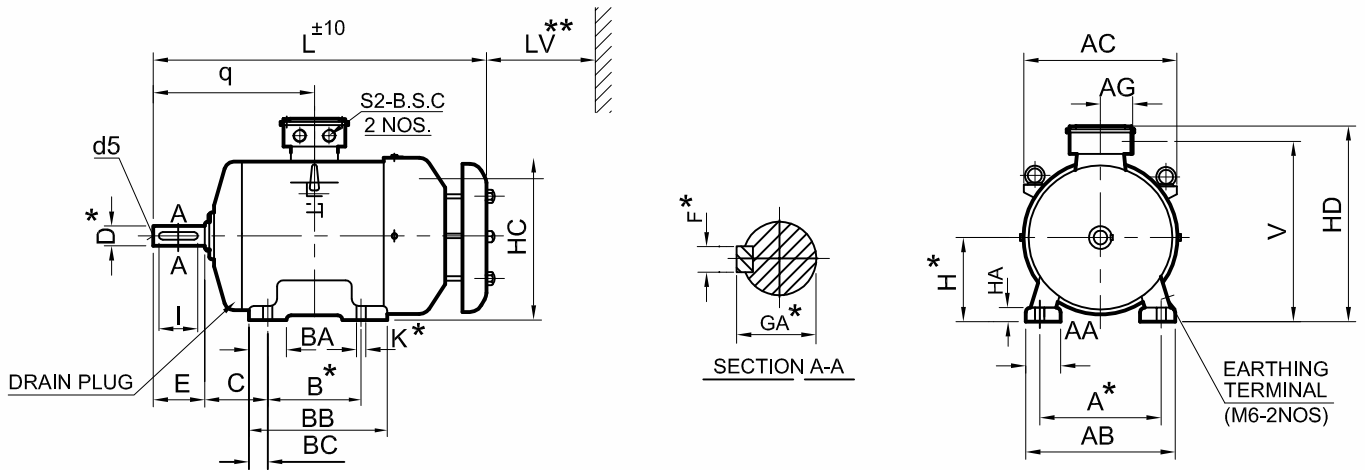
	IE3	IE2	IE1
Power Rating (kW)	3.7		
Purchase Cost of Motor (₹)	15750	13670	11912
Motor Efficiency	88.40%	87.00%	85.00%
Per Hour kW Consumption	4.19	4.25	4.35
Annual running Hours (150 Day X 24Hrs)	3600	3600	3600
Power Consumption/Annum (kW)	15068	15310	15671
Average energy cost (Rs./kWH)	7	7	7
Average energy cost/annum (₹)	105475	107172	109694
Annual Saving (₹)	4219	2522	----
Cost Differential w.r.t. IE1 (₹)	3838	1758	----
Payback period for differential Amount	11 months	8.4 months	----
Saving Over 20 year Life (₹)	84380	50434	----



Performance Table for Ginning Motor

Rated Output		Frame size	Eff Class	Operating Characteristics at Rated output									With DOL Starting		Pullout Torque to Rated Torque Ratio	Rotor GD ² kgm ²	Net Weight B3 Constn. Kg
				Speed	Current	Rated Torque	Power Factor			% Efficiency			Starting Current to Rated Current Ratio	Starting Torque to Rated Torque Ratio			
KW	HP	IEC	Eff	RPM	Amps.	Kg.m	FL	3/4L	1/2L	FL	3/4L	1/2L					
3.7	5.0	132S	IE2	1455	6.9	2.48	0.86	0.82	0.74	87.0	87.0	84.5	6.5	2.5	3.0	0.104	62
5.5	7.5	132M	IE2	1455	10.1	3.68	0.86	0.82	0.74	87.7	87.7	86.0	6.5	2.5	3.0	0.163	84
3.7	5.0	132S	IE3	1455	6.8	2.48	0.86	0.82	0.74	88.4	88.4	86.5	6.5	2.5	3.0	0.126	66
5.5	7.5	132M	IE3	1455	9.90	3.68	0.86	0.82	0.74	89.6	89.6	87.6	6.5	2.5	3.0	0.163	85
3.7	5.0	132S	STD. Eff	1455	7.0	2.48	0.86	0.82	0.74	85.0	85.0	83.0	6.0	2.5	3.0	0.104	60
5.5	7.5	132M	STD. Eff	1455	10.3	3.68	0.86	0.82	0.74	86.5	86.0	84.0	6.0	2.5	3.0	0.141	74

Dimensional Details for Ginning Motors 132S & 132M



IEC Fr. size	Pole	FIXING				GENERAL										TERMINAL BOX				SHAFT							
		A*	B*	C	H*	K*	AB	BB	AA	BA	BC	HA	HC	HD	L	LV**	AC	V	q	AG	S2 B.S.C.	D*	E	F*	GA*	I	d5
132S	4	216	140	89	132	12	256	180	64	50	23	17	262	338	511	50	260	299	239	63	1"	38	80	10	41	70	M12
132M			178					218		54					549				608								

TOLERANCE ON DIMENSIONS WITH *

Dimension	Tolerance	Specification
A,B	±0.75	
H	-0.5	
K	+0.430	12∅
D	k6	38∅
GA,F		IS : 2048
d5(centering)		IS : 2540

**MINIMUM DISTANCE FOR EFFICIENT COOLING OF MOTOR TO BE MAINTAINED BY USER



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