		Data sheet for motors	
Manufacturer	Bharat Bijlee Ltd.	Customer	
Type of motor	3 Phase Induction Motor	BBL Enquiry reference No	
Quantity		Customer P.O.Number	
Application	CUSTOMER TO FURNISH	W.O. No. / SAP No.	
Tag no.		Output kW / pole	0.55 / 2P
BBL type tef.		Frame size	71
Installation details		Applicable standards (latest edition)	
Area classification (Safe / Hazardous)	Industrial safe area	Performance: IS15999-1 Maintenance IS:900	
Location: indoor/outdoor/deck	Indoor	Dimensions: IS 1231/IS 2223/IS:8223	
Altitude (meters)	1000 or less	Vibrations: IS 12075	
		Noise level: IS 12065	
Hazardous area details		Supply conditions and permissible variations (grid supply)	
Area classification GAS (Zone 1/Zone 2)	N.A.	Number of phases	Three
Gas group	N.A.	Voltage (Volts) and permissible variation	415 ±10%
Temp.class	N.A.	Frequency (Hz) and permissible variation	50 ±5%
Type of Explosion protection (FLP/Type 'e'/Type 'n')	N.A.	Combined variation (absolute sum)	±10%
Approving authority for hazardous area	Not Applicable		
Electrical parameters			
Starting performance			
Method of starting	DOL	Starting current (%FLC)	500
Load speed (rpm)	CUSTOMER TO FURNISH	Starting torque (%FLT)	250
Motor GD <sup>2</sup> (kgm <sup>2</sup> )	0.0016	Pull out torque (%FLT)	280
Load GD <sup>2</sup> (kgm <sup>2</sup> )	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15 / 30
Load torque-speed curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2 / 3
Starting time at rated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS		
Running Performance			
Efficiency class	IE2	Duty and designation	Continuous (S1)
Ambient temp./temp.rise by resistance (deg.C)	50 / 70	CDF/Equivalent starts per hour/FI	-
Enclosure	TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B
Full load current (FLC) amps.	1.36	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage
Full load speed (rpm)	2820	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable
Full load torque (FLT) kg-m	0.19	Stator/rotor time constant (min)	72/97
Efficiency in % at FL/0.75FL/0.5FL	74.1 74.1 65.0	Power factor at FL/0.75FL/0.5FL	0.76 0.64 0.50
Mechanical parameters			
Mounting	B8	Mounting dimensions	Refer GA drawing
Shaft extention	Single cylindrical	Direction of rotation viewed from DE	Clockwise
Degree of protection	IP 55	Suitable for bidirectional rotation	Yes
Method of cooling (TEFC/forced cooled/TEFC)	TEFC (IC 411)	Paint type	Acrylic
Net weight of motor (kgs.)	7.7	Paint shade	RAL 5000
		Earthing provision (two terminals on stator body)	Yes
Bearings		Terminal box	
Coupling (Direct/flexible/Belt & Pulley/Gearbox)	Direct	Terminal box location when viewed from DE	As per GA drawing
Dimensions of pulley (OD x width) mm	-	Direction of cable entry	As per GA drawing
Bearings (roller/ball/angular contact)	Ball /Ball	Cable size and type(Aluminium)	1R X 3C X 4 SQ MM
Bearing size DE/NDE	6202 2Z C3 / 6202 2Z C3	Earthing provision (one terminal in TB)	Yes
Type of lubrication	LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals	3 / STAR / 6
Accessories			
RTDs - 3 numbers simplex (w/o controller)		Arrow plate for direction of rotation	
BTDS - 1 number per bearing (w/o controller)		Double compression glands (main cable)	
Space heaters - single phase 50z, 230V		Double compression glands (Space heater/thermistors/RTDs)	
Thermistors - PTC , 1 number per phase		Brake (Type/voltage/torque)	
Additional T-Box for Accessories			
Additional nameplate			
Notes:			
1)All performance values are subject to IS15999-1 tolerances, unless otherwise specified.			
2)Performance values are at rated voltage and rated frequency condition and for DOL starting condition.			
3)Motor GD <sup>2</sup> = Load GD <sup>2</sup> assumed wherever not mentioned.			
4)Where starting time is more than 10 seconds, provision of heavy duty relays is mandatory.			
5)Kilowatt rating is mandatory and HP is approximate.			
6) Accessories provided are marked as "YES"			
		Prepared by	
		Approved by	
		Revision	
Project:		Contractor/Client	
Consultant		Package	
		Date:	

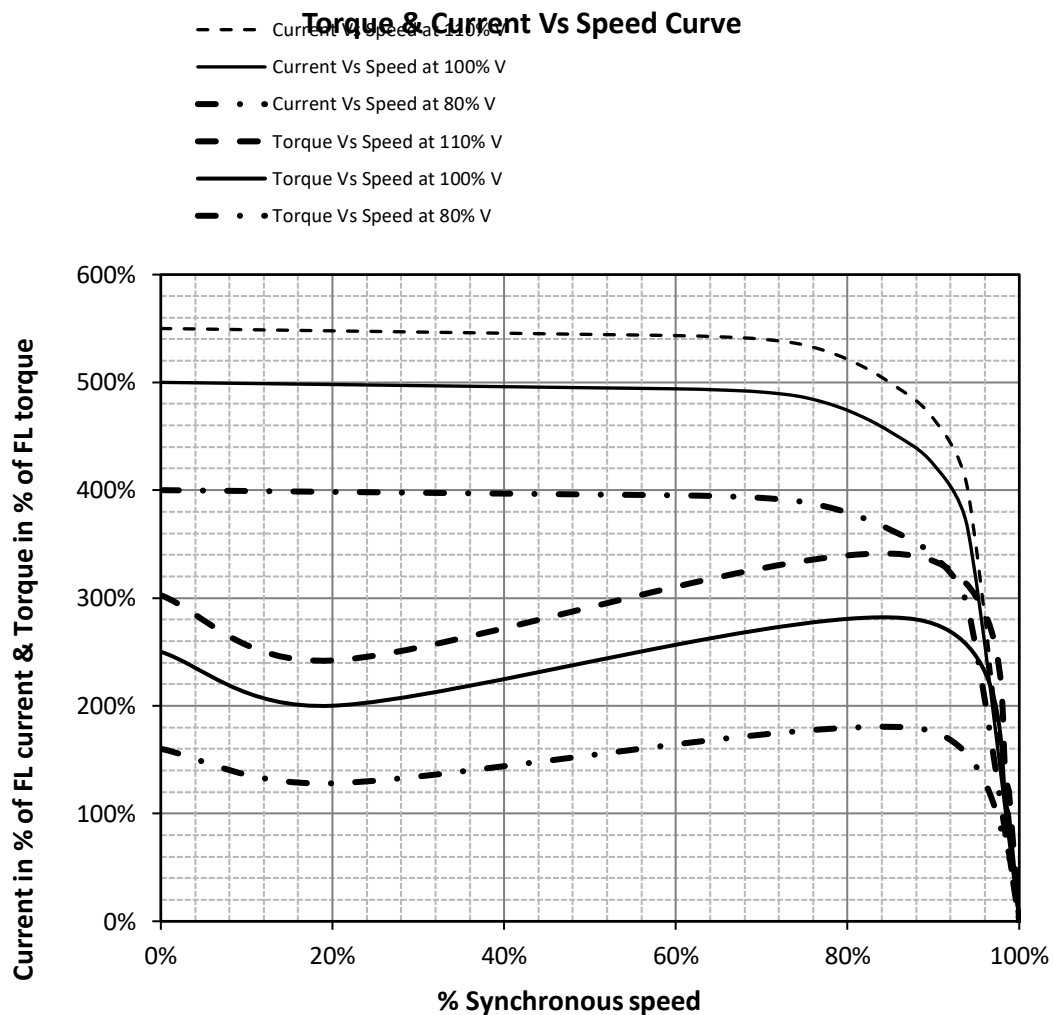


## PERFORMANCE CURVES

### 3 Phase Squirrel Cage Induction Motor

Customer : -	BBL Ref No.: -	Quantity : -
Consultant : -	Tag Nos. : --	
Project : -		

Output (kW)/Poles : 0.55 / 2P	Frame : 71
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Rev No.	Prepared By	Checked By	Date

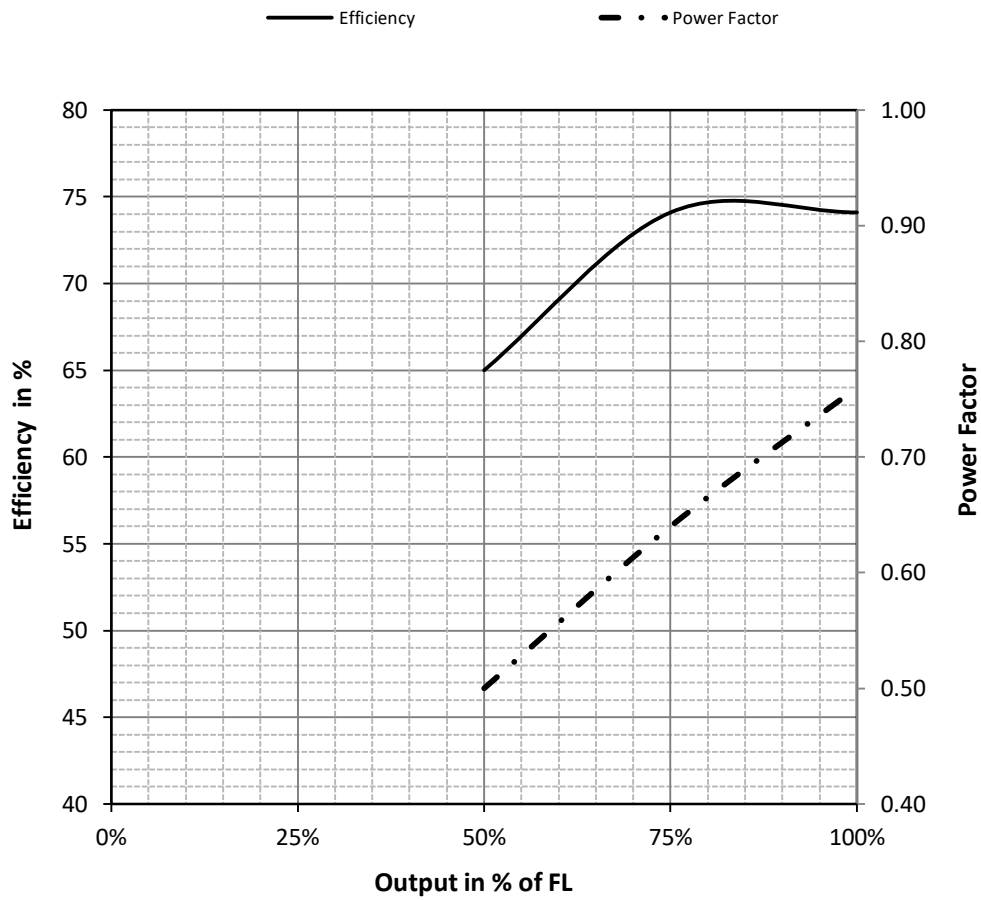


**PERFORMANCE CURVES**  
**3 Phase Squirrel Cage Induction Motor**

Customer : -	BBL Ref No.: -	Quantity : -
Consultant : -	Tag Nos. : -	
Project : -		

Output (kW)/Poles : 0.55 / 2P	Frame : 71
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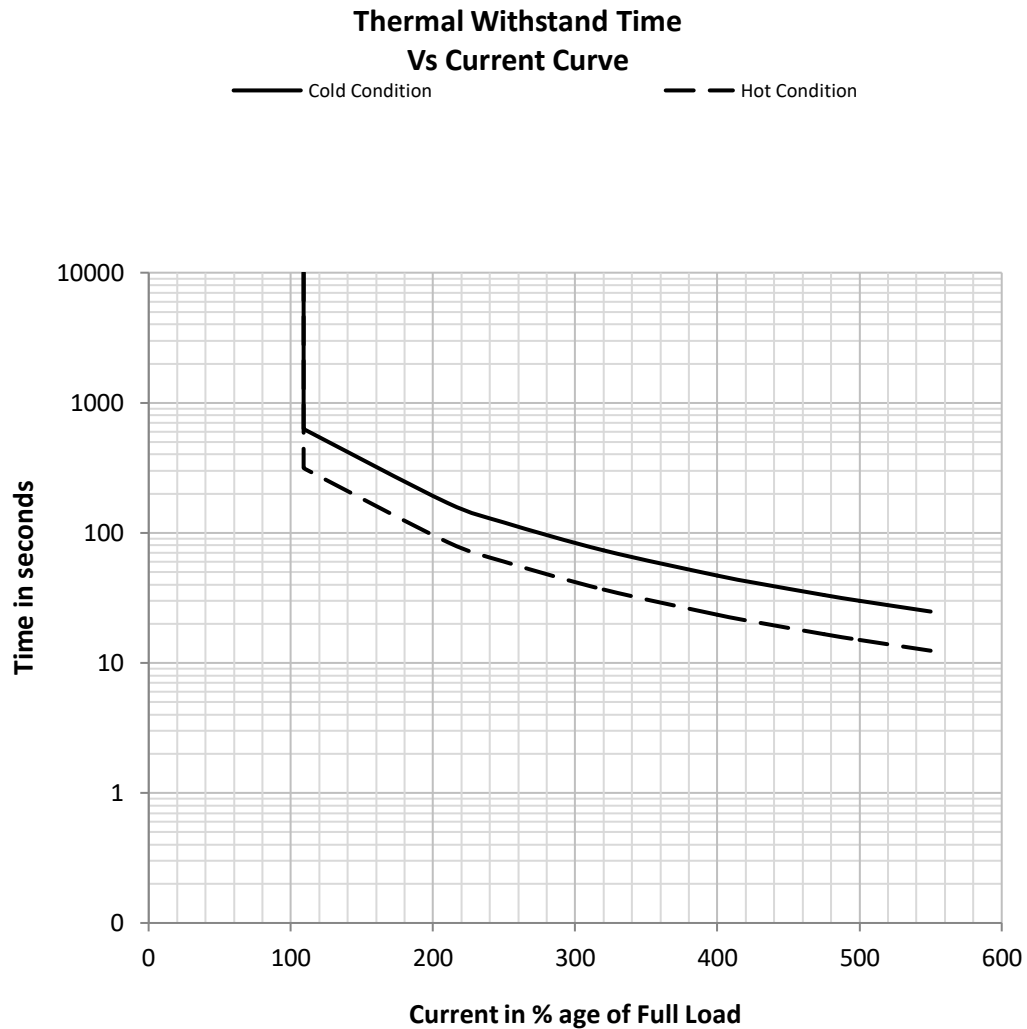
**Efficiency, Power Factor Vs Output Curve**



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Rev No.	Prepared By	Checked By	Date

Customer : -	BBL Ref No.: -	Quantity : -
Consultant : -	Tag Nos. : --	
Project : -		

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Rev No.	Prepared By	Checked By	Date