

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	1.1 / 2P
BBL type tef.			Frame size	80
Installation details			Applicable standards (latest edition)	
Area classification (Safe / Hazardous)	Industrial safe area		Performance: IS/IEC 60034-1 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)	550
Load speed (rpm)	CUSTOMER TO FURNISH		Starting torque (%FLT)	270
Motor GD ² (kgm ²)	0.0034		Pull out torque (%FLT)	300
Load GD ² (kgm ²)	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.	2.37		Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage
Full load speed (rpm)	2855		Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable
Full load torque (FLT) kg-m	0.38		Stator/rotor time constant (min)	90/122
Efficiency in % at FL/0.75FL/0.5FL	79.6 79.6 79.6		Power factor at FL/0.75FL/0.5FL	0.81 0.75 0.61
Mechanical parameters				
Mounting	B5		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.)	11		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
Dimenssions 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	6004 2Z C3 / 6004 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 IS/IEC 60034-1 tolerances, unless otherwise specified.				
2)Performance values are at rated voltage and rated frequency condition and for DOL starting condition.				
3)Motor GD ² = Load GD ² 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	Date:	
Consultant		Package		