Manufacturer	Bharat Bijlee Ltd.		Customer			
Type of motor	3 phase Induction Motor		BBL Enquiry reference No			
Quantity Application	CUSTOME		Customer P.O.Number			
Application	CUSIONE	R TO FURNISH	W.O. No. / SAP No. Output kW / Pole	0.37	1	8P
Tag no. BBL type Ref.		MD09L833	Frame size	0.57	/ MJ90	or
installation detail	ils	NID07L033	Applicable standards (latest edition)		IVIJ 7 0	
	n (Safe / Hazardous)	Hazardous area		FLP Mote	ors: IS/IEC 6	0079_1
Location: indoor/		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 classificatio	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415	±10	%
Temp.class		T5	Frequency (Hz) and permissible variation	50	±5%	%
Type of Explosio.	-	Ex 'd'	Combined variation (absolute sum)		±10%	
(EL D/Tyme 'o'/Tyme 'n') Approving authority for hazardous area		If Mine application then DGMS else PESO				
Electrical param	eters					
Starting perform	ance					
Method of starting		DOL	Starting current (%FLC)		270	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		180	
Motor GD^2 (kgm ²)		0.011	Pull out torque (%FLT)		210	
$Load \text{ GD}^2 (\text{kgm}^2)$		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	30	/	60
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
Starting time at ra	ated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS	E			
Running Perform	nance					
Efficiency class		-	Duty and designation	Continuous (S1)		51)
Ambient temp./temp.rise by resistance (deg.C)		45 / 75	CDF/Equivalent starts per hour/FI			
Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
ull load current (FLC) amps.		1.3	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (rpm)		700	Rotor voltage/rotor current (RV/RA) (Volts/Amps)			le
Full load torque (FLT) kg-m		0.52	Stator/rotor time constant (min)		84/113	
•	t FL/0.75FL/0.5FL	62.0 55.0 48.0	Power factor at FL/0.75FL/0.5FL	0.63	0.52	0.41
Mechanical para	imeters	DO		D		•
Mounting		B8	Mounting dimensions	Refer GA drawing		<u> </u>
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
Degree of protect		IP 55	Suitable for bidirectional rotation	Yes		
	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proof		
Net weight of mo	otor (kg)	46	Paint shade	6	532 as per IS	5
			Earthing provision (two terminals on stator body)		Yes	
Bearings	/01 11 /00 1/ 0		Terminal box			
Coupling (Direct/	nexidie/Belt &	Direct	Terminal box location when viewed from DE	As	per GA draw	wing
Pulley/Gearbox)	ullow (OD v width) men		Diraction of apple antry		•	C
onnenssions of p	ulley (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 6 SQ M		MM
Bearing size DE/NDE		6205 2Z C3/6205 2Z C3	Earthing provision (one terminal in TB)	Yes		2
Type of lubrication	ЛI	LITHIUM SOAP BASE GREASE	tompinala		3 / STAR / 3	0
Accessories 27Ds - 3 number	rs simplex(w/o controller)		Arrow plate for direction of rotation			
			Double compression glands (main cable)	le)		
BTDs - 1 number per bearing(w/o controller) Space heaters - single phase 50z, 230V			Double compression glands (Space			
Thermisters - PT	\sim		heater/Thermisters/RTDs) Brake (Type/yoltage/torque)			
	c for Accessories		Brake (Type/voltage/torque)			
Additional 1-Box						
				1		

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	

			Revison	
Project:	Contractor/Client		Date:	
Consultant	Package			