Manufacturer	Bharat Bijlee Ltd.		Customer			
Type of motor	3 phase Induction Motor		BBL Enquiry reference No			
Quantity	CUSTOME		Customer P.O.Number			
Application	CUSIONE	R TO FURNISH	W.O. No. / SAP No. Output kW / Pole	0.37	1	8P
Гаg no. BBL type Ref.		MD09L833	Frame size	0.37	/ MJ90	01
Installation detail	ils	NID07L033	Applicable standards (latest edition)		11370	
	on (Safe / Hazardous)	Hazardous area		FLP Mote	ors: IS/IEC 6	0079-
Location: indoor/		Indoor	Dimensions: IS 1231/IS 2223/IS:8223		<u>, , , , , , , , , , , , , , , , , , , </u>	0017
Altitude (meters)		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
Hazardous area	details	I	Supply conditions and permissible variations (grid	supply)		
Area classificatio	on 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%	6
Typé of Explosio	-	Ex 'd'	Combined variation (absolute sum)		±10%	
(EL D/Type 'o'/Type '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 GD ^{2} (kgm ^{2}	·	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	30	/	60
	, 		Number of consecutive starts (hot/cold) (nos.)		• • •	-
Load torque-speed curve		Parabolic TS curve PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2		2/3	
Starting time at ra	ated voltage (sec)	DETAILS				
Running Perform	nance	1				
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)		F/B		
Full load current	(FLC) amps.	1.3	Rotor type (Squirrel Cage/ Slip ring)		Squirrel Cag	je
Full load speed (rpm)		700	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		le
Full load torque (FLT) kg-m		0.52	Stator/rotor time constant (min)	84/113		
Efficiency in % a	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					
Mounting		B3	Mounting dimensions	Re	efer GA draw	ing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
Degree of protect	tion	IP 55	Suitable for bidirectional rotation	Yes		
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proof		oof
Net weight of motor (kg)		46	Paint shade	(532 as per IS 5	
Bearings			Earthing provision (two terminals on stator body) <i>Terminal box</i>		Yes	
Coupling (Direct/ Pulley/Gearbox)	/flexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
v	oulley (OD x width) mm	–	Direction of cable entry	As	per GA drav	wing
Bearings (roller/b	all/angular contact)	Ball /Ball	Cable size and type(Aluminium)	1R X 3C X 6 SQ N		<u> </u>
Bearing size DE/NDE		6205 2Z C3/6205 2Z C3	Earthing provision (one terminal in TB)	Yes		
Type of lubrication		LITHIUM SOAP BASE GREASE			3 / STAR / 3	3
Accessories		·		•		
RTDs - 3 number	rs simplex(w/o controller)		Arrow plate for direction of rotation			
TDs - 1 number per bearing(w/o controller)			Double compression glands (main cable)			
Space heaters - si	ingle phase 50z, 230V		Double compression glands (Space heater/Thermisters/RTDs)			
Thermisters - PT	С		Brake (Type/voltage/torque)			
	x for Accessories					
Additional name						

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			