Manufacturer	Bharat Bijlee Ltd.		Customer			
Type of motor	3 phase Induction Motor		BBL Enquiry reference No			
Quantity	CUSTOME		Customer P.O.Number			
pplication CUSTOMER TO FURNISH		W.O. No. / SAP No. Output kW / Pole	0.75 / 6P			
Tag no. PRI type Pof		MD09L633	Frame size	0.75	/ MJ90	OP
BBL type Ref. Installation detail	 ;1 _a	NID09L033	Frame size Applicable standards (latest edition)		IVIJ 90	
	n (Safe / Hazardous)	Hazardous area		FI P Moto	ors: IS/IEC 6	0070 1
Location: indoor/		Indoor	Dimensions: IS 1231/IS 2223/IS:8223		15. 15/1EC U	0079-1
Altitude (meters)		1000 or less	Vibrations: IS 12075			
Annual (meters)			Noise level: IS 12075			
Hazardous area	details		Supply conditions and permissible variations (grid	sunnly)		
	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	±10	
ype of Explosio	-	Ex 'd'	Combined variation (absolute sum)	50	±10%	0
(EL D/Type 'e'/Type 'e') Approving authority for hazardous area		If Mine application then DGMS else PESO			±1070	
Electrical param	eters					
Starting perform						
Method of startin		DOL	Starting current (%FLC)		340	
Load speed (rpm)	0	CUSTOMER TO FURNISH	Starting torque (%FLT)		200	
Motor GD^2 (kgm ²)		0.0122	Pull out torque (%FLT)		250	
	,	CUSTOMER TO FURNISH		30	/	60
Load GD ² (kgm ²)	CUSIONIER IU FUKNISH	Locked rotor withstand time (hot/cold) (sec)	50	/	60
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
C	ated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	nance					7 4 \
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.		2.0	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (rpm)		925	Rotor voltage/rotor current (RV/RA) (Volts/Amps)			le
Full load torque (FLT) kg-m Efficiency in % at FL/0.75FL/0.5FL		0.79	Stator/rotor time constant (min)	0.50	84/113	
•		73.0 70.0 69.0	Power factor at FL/0.75FL/0.5FL	0.72	0.61	0.50
Mechanical para	imeters	DO		D		•
Mounting		B8	Mounting dimensions	Refer GA drawing		0
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
Degree of protect	lion	IP 55	Suitable for bidirectional rotation	Yes		
	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proof		
Net weight of motor (kg)		48	Paint shade	632 as per IS 5		5
Bearings			Earthing provision (two terminals on stator body) <i>Terminal box</i>		Yes	
Coupling (Direct/ 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 6 SQ M		MM
Bearing size DE/NDE		6205 2Z C3/6205 2Z C3	Earthing provision (one terminal in TB)	Yes		
Type of lubrication	on	LITHIUM SOAP BASE GREASE	El tomminolo		3 / STAR / 3	3
lccessories		1		1		
	rs simplex(w/o controller)		Arrow plate for direction of rotation			
BTDs - 1 number per bearing(w/o controller) Space heaters - single phase 50z, 230V			Double compression glands (main cable)Double compression glands (Space			
Thermisters - PT			heater/Thermisters/RTDs) Brake (Type/voltage/torque)			
	x for Accessories					
Additional name						
		1		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			