Manufacturer Fype of motor	Bharat Bijlee Ltd.3 phase Induction Motor		Customer BBL Enquiry reference No				
Quantity			Customer P.O.Number				
Current of the second		W.O. No. / SAP No.					
Tag no.			Output kW / Pole	0.75	/	6P	
BBL type Ref.		MD09L635	Frame size		MJ90		
Installation detai	ils		Applicable standards (latest edition)				
Area classification	n (Safe / Hazardous)	Hazardous area	Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Moto	rs: IS/IEC 6	0079-	
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 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%		
rypé or Explosion	•	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							
Starting perform				1			
Method of starting		DOL	Starting current (%FLC)	340			
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		200		
Motor $GD^2$ (kgm <sup>2</sup> )		0.0122	Pull out torque (%FLT)		250		
Load GD <sup><math>^2</math></sup> (kgm <sup><math>^2</math></sup>		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 ABOVI	provided Load GD2 = Motor GD2		2/3		
Starting time at ra	ated voltage (sec)	DETAILS					
Running Perform	nance			I			
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			
Full load current (	(FLC) amps.	2.0	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		je	
Full load speed (r	rpm)	925	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		le	
Full load torque (FLT) kg-m		0.79	Stator/rotor time constant (min)	84/113			
Efficiency in % at	t FL/0.75FL/0.5FL	73.0 70.0 69.0	Power factor at FL/0.75FL/0.5FL	0.72	0.61	0.50	
Mechanical para	imeters						
Mounting		B5	Mounting dimensions	Ret	fer GA draw	ving	
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise			
Degree of protection		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 mo		48	Paint shade				
		40	Earthing provision (two terminals on stator body) <i>Terminal box</i>	632 as per IS 5 Yes			
<i>Bearings</i> Coupling (Direct/	flexible/Relt &						
Pulley/Gearbox)	IIVAIUIU/ DUIL &	Direct	Terminal box location when viewed from DE	As	per GA drav	ving	
<b>v</b> ,	ulley (OD x width) mm	_	Direction of cable entry	As per GA drawing			
ľ	all/angular contact)	Ball /Ball	Cable size and type(Aluminium)			BC X 6 SQ MM	
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				1			
	s simplex(w/o controller)		Arrow plate for direction of rotation				
	per bearing(w/o controller)		Double compression glands (main cable)				
Space heaters - single phase 50z, 230V			Double compression glands (Main eable) Double compression glands (Space heater/Thermisters/RTDs)				
Thermisters - PTC			Brake (Type/voltage/torque)				
	c for Accessories		Drake (1 ype/ voltage/ torque)				
Additional namep							
· · · · · · · · · · · · · · · · · · ·		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	
<b>Project:</b>	Contractor/Client		Date:	
Consultant	Package			