Manufacturer Fype of motor	Bharat Bijlee Ltd.3 phase Induction Motor		Customer BBL Enquiry reference No			
Quantity			Customer P.O.Number			
pplication CUSTOMER TO FURNISH		W.O. No. / SAP No.				
Tag no.			Output kW / Pole	0.55	/	8P
BBL type Ref.		MD09L855	Frame size		MJ90	
Installation detai	ils		Applicable standards (latest edition)			
Area classificatio	n (Safe / Hazardous)	Hazardous area		FLP Moto	rs: IS/IEC 6	50079-
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)		
	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415	±10	0/
Temp.class		T5	Frequency (Hz) and permissible variation	50	±10	
rype or Explosio	n protection			30		70
(ELD/Turna 'a'/Turna 'n') Approving authority for hazardous area		Ex 'd' If Mine application then DGMS else PESO	Combined variation (absolute sum)		±10%	
Electrical param						
Starting perform				1		
Method of starting		DOL	Starting current (%FLC)	290		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		200	
Motor GD <sup>2</sup> (kgm <sup>2</sup>	(2)	0.014	Pull out torque (%FLT)		240	
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
Load torque-spee		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 ABOV DETAILS				
Running Perform	nance	DETAILS				
Efficiency class		_	Duty and designation	Co	ontinuous (S	<b>S</b> 1)
Ambient temp./temp.rise by resistance (deg.C)		45 / 75	CDF/Equivalent starts per hour/FI			
Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)		F/B		
		,	Deter two (Cavimal Case/Slip ming)		Sauimal Caa	
Full load current		1.8	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		·
Full load speed (rpm)		<u>690</u>	Rotor voltage/rotor current (RV/RA) (Volts/Amps)			le
Full load torque (FLT) kg-m		0.78	Stator/rotor time constant (min)	84/113		
•	t FL/0.75FL/0.5FL	67.0 62.0 58.0	Power factor at FL/0.75FL/0.5FL	0.63	0.55	0.43
Mechanical para	umeters			1		
Mounting		B5	Mounting dimensions	Re	fer GA draw	ving
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 mo		46	Paint shade	632 as per IS 5		
			Earthing provision (two terminals on stator body) <i>Terminal box</i>	Yes		
Bearings	$f_{0} = 1 = 0$					
Coupling (Direct/	nexible/ Dell &	Direct	Terminal box location when viewed from DE	As	per GA drav	wing
Pulley/Gearbox) Dimenssions of pulley (OD x width) mm			Direction of cable entry	As per GA drawing		
Ĩ	all/angular contact)	Ball /Ball	Cable size and type(Aluminium)	1R X 3C 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 GREAS			3 / STAR / 3	3
Accessories				1		
	s simplex(w/o controller)		Arrow plate for direction of rotation			
	number per bearing(w/o controller)		Double compression glands (main cable)			
	ingle phase 50z, 230V		Double compression glands (Space heater/Thermisters/RTDs)			
Thermisters - PT	С		Brake (Type/voltage/torque)			
	c for Accessories					
Additional namep				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			