Manufacturer	Bharat Bijlee Ltd.		Customer			
<b>Type of motor</b>	<b>3 phase Induction Motor</b>		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.		MD09L835	Frame size	0.37	/ MJ90	0Г
Installation detail	ils	<b>NID</b> 07 <b>L</b> 035	Applicable standards (latest edition)		11370	
	on (Safe / Hazardous)	Hazardous area		FLP Moto	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		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%	%
rypé or 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 startin	g	DOL	Starting current (%FLC)		270	
Load speed (rpm)	)	CUSTOMER TO FURNISH	Starting torque (%FLT)		180	
Motor $GD^2$ (kgm <sup>2</sup> )		0.011	Pull out torque (%FLT)		210	
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 ABOVE	provided Load GD2 = Motor GD2		2/3	
Starting time at ra	ated voltage (sec)	DETAILS				
Running Perform	nance	<b>.</b>				
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		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		B5	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	632 as per IS 5		5
Bearings			Earthing provision (two terminals on stator body) <i>Terminal box</i>	Yes		
Coupling (Direct/	/flexible/Belt &					
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As	per GA draw	ving
<b>v</b>	oulley (OD x width) mm	<b>_</b>	Direction of cable entry	As per GA drawi		ving
Bearings (roller/b	all/angular contact)	Ball /Ball	Cable size and type(Aluminium)	1R X 3C X 6 SQ MI		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				<b>,</b>		
RTDs - 3 number	rs simplex(w/o controller)		Arrow plate for direction of rotation			
	Ds - 1 number per bearing(w/o controller)		Double compression glands (main cable)			
Space heaters - single phase 50z, 230V			Double compression glands (Space heater/Thermisters/RTDs)			
Thermisters - PT	С		Brake (Type/voltage/torque)			
	c for Accessories					
Additional name						
		I		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			