Bharat Bijlee Manufacturer Bharat Bijlee Ltd.			(Customer			
Type of motor	3 phase Induction Motor			BBL Enquiry reference No			
Quantity				Customer P.O.Number			
Application	CUSTOME	R TO FURNISH		W.O. No. / SAP No.			
Tag no.				Dutput kW / Pole	5.5		6P
BBL type Ref.		MD13M6N5		Frame size		, MJ132	
Installation deta	ils			Applicable standards (latest edition)			
Area classificatio	on (Safe / Hazardous)	Hazardous area		Performance: IS/IEC 60034-1 Maintenance IS:900	FLP Mote	ors: IS/IEC 6	0079-
Location: indoor/outdoor/deck				Dimensions: IS 1231/IS 2223/IS:8223			
Altitude (meters)		1000 or less	V	Vibrations: IS 12075			
			N	Noise level: IS 12065			
Hazardous area	details	I		Supply conditions and permissible variations (grid	l supply)		
	on GAS (Zone 1/Zone 2)	ZONE I		Number of phases		Three	
Gas group				Voltage (Volts) and permisible variation	$415 \pm 10\%$		
Temp.class				Frequency (Hz) and permissible variation	50 ±5%		6
(ELD/Type 'e'/Type 'n')				nbined variation (absolute sum) ±10%			
Approving authority for hazardous area		If Mine application then DGMS else PESO					
Electrical param	eters	·	I				
Starting perform	ance						
Method of startin	g	DOL		Starting current (%FLC)	550		
Load speed (rpm		CUSTOMER TO FURM	NISH S	Starting torque (%FLT)	250		
Motor GD^2 (kgm ²)		0.172	F	Pull out torque (%FLT)		300	
Load GD^2 (kgm ²)		CUSTOMER TO FURN	NISH I	Locked rotor withstand time (hot/cold) (sec)	15	/	30
Load torque-speed curve		Parabolic LS curve		Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2/3		
Starting time at rated voltage (sec)		PLEASE FURNISH ALL ABOVE					
C		DETAILS					
Running Perform	nance		_				7 1 \
Efficiency class				Duty and designation	Continuous (S1)		
Ambient temp./temp.rise by resistance (deg.C)				CDF/Equivalent starts per hour/FI	-		
Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)		nsulation class / utilisation class on DOL	F/B		
Full load current (FLC) amps.				Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (rpm)				Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (FLT) kg-m				Stator/rotor time constant (min)	90/122		
~	t FL/0.75FL/0.5FL	84.5 84.5 8	83.0 F	Power factor at FL/0.75FL/0.5FL	0.78	0.74	0.64
Mechanical para	imeters	D.5		<i>r</i> . • • •			•
Mounting				Mounting dimensions	Refer GA drawing		
Shaft extention				Direction of rotation viewed from DE	Clockwise		
Degree of protection		IP 55		Suitable for bidirectional rotation	Yes		
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)		Paint type	Acid Alkali Proof		
Net weight of motor (kg)		120		Paint shade	632 as per IS 5		
				Earthing provision (two terminals on stator body)		Yes	
Bearings			7	Terminal box			
Coupling (Direct	/flexible/Belt &	Direct	- -	Ferminal box location when viewed from DE	As	per GA drav	ving
Pulley/Gearbox)							
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 16 SQ MM		
Bearing size DE/NDE		6208 2Z C3/6208 2Z C3		Earthing provision (one terminal in TB)	Yes		
Type of lubrication		LITHIUM SOAP BASE GREASE		vo or phase/ winning connection/number of	3 / DELTA / 6		
Accessories							
			Arrow plate for direction of rotation				
BTDs - 1 number per bearing(w/o controller)				Double compression glands (main cable)			
Space heaters - single phase 50z, 230V				Double compression glands (Space neater/Thermisters/RTDs)			
Thermisters - PT	С			Brake (Type/voltage/torque)			
	x for Accessories						
Additional name							
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			