Manufacturer	Bharat Bijlee Ltd.		Customer			
Type of motor	3 phase Induction Motor		BBL Enquiry reference No Customer P.O.Number			
Quantity Application	CUSTOME	P TO FUDNICH	W.O. No. / SAP No.			
Tag no.			W.O. No. / SAP No. Output kW / Pole 0.55 /			2P
BBL type Ref.		MD0802B5	Frame size	0.33	/ 	
nstallation detai	ils	1110000205	Applicable standards (latest edition)		101300	
	n (Safe / Hazardous)	Hazardous area		FLP Moto	ors: IS/IEC 6	60079-
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 classification	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases		Three	
Gas group		IIA, IIB	Voltage (Volts) and permisible variation	415	±10	%
Femp.class		T6	Frequency (Hz) and permissible variation	50	±5%	%
Type of Explosion	-	Ex 'd'	Combined variation (absolute sum)		±10%	
Approving authority for hazardous area		If Mine application then DGMS else PESO				
Electrical param						
Starting perform				1		
Method of startin	0	DOL	Starting current (%FLC)	550		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		270	
Motor GD ² (kgm ²	,	0.0037	Pull out torque (%FLT)	ļ	300	
$Load GD^2 (kgm^2)$)	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
Load torque-speed curve		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 ABOVI DETAILS				
Running Perform	nance	1				
Efficiency class		-	Duty and designation	Continuous (S1)		S1)
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.		1.2	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (rpm)		2860	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	·		le
Full load torque (× 8	0.19	Stator/rotor time constant (min)	0.92	90/122	0.00
•	t FL/0.75FL/0.5FL	75.0 73.0 68.0	Power factor at FL/0.75FL/0.5FL	0.82	0.74	0.62
<i>Mechanical para</i> Mounting	imeters	B5	Mounting dimensions	Pa	for GA draw	vina
6		Single cylindrical	Direction of rotation viewed from DE	Refer GA drawing		0
Shaft extention Degree of protection		IP 55	Suitable for bidirectional rotation	<u> </u>		
U 1						
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proof		oof
Net weight of mo	otor (kg)	31	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 drawing		wing
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 4 SQ N		Q MM
Bearing size DE/NDE		6204 2Z C3/6204 2Z C3	Earthing provision (one terminal in TB)	Yes		2
Type of lubrication	Dn	LITHIUM SOAP BASE GREASE	tominala		3 / STAR / 3	3
Accessories	• • • •	Ι				
	rs simplex(w/o controller)		Arrow plate for direction of rotation			
BTDs - 1 number	per bearing(w/o controller)		Double compression glands (main cable)			
•	ingle phase 50z, 230V		Double compression glands (Space heater/Thermisters/RTDs)			
Thermisters - PTC			Brake (Type/voltage/torque)			
	for Accessories					
Additional T-Box Additional namep						

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			