Manufacturer	Bharat Bijlee Ltd.		Customer			
Type of motor	3 phase Induction Motor		BBL Enquiry reference No Customer P.O.Number			
Quantity Application	CUSTOME	D TO FUDNICH	W.O. No. / SAP No.			
Tag no.			W.O. No. / SAP No. Output kW / Pole 0.37 /			6P
BBL type Ref.		MD080615	Frame size	0.37	/ 	01
nstallation detai	ils		Applicable standards (latest edition)		101300	
	on (Safe / Hazardous)	Hazardous area		FLP Moto	ors: IS/IEC 6	0079-
Location: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223			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	%
Femp.class		T6	Frequency (Hz) and permissible variation	50	±5%	%
Type of Explosio. The D/Type 'o'/Type	-	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)	300		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	210		
Motor GD ² (kgm ²	·	0.006	Pull out torque (%FLT)	ļ	230	
$Load GD^2 (kgm^2)$	2)	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	30	/	60
Load torque-spee	ed 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 ABOV DETAILS	E			
Running Perform	nance					
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.		1.1	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		•
Full load speed (rpm)		910	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		le
Full load torque ($\begin{array}{c c} 0.4 \\ \hline \end{array}$	Stator/rotor time constant (min)	0.70	90/122	0.40
•	t FL/0.75FL/0.5FL	68.0 66.0 61.0	Power factor at FL/0.75FL/0.5FL	0.70	0.60	0.48
<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 Clockwise		<u> </u>
Shaft extention Degree of protection		IP 55	Suitable for bidirectional rotation	Yes		
U 1						
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acid Alkali Proot		oof
Net weight of mo	otor (kg)	31	Paint shade	632 as per IS 5		
Bearings			Earthing provision (two terminals on stator body) <i>Terminal box</i>	ly) Yes		
Coupling (Direct/flexible/Belt & ulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawin		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		0 MM
earing size DE/NDE		6204 2Z C3/6204 2Z C3	Earthing provision (one terminal in TB)	Yes		2
Type of lubrication	on	LITHIUM SOAP BASE GREAS	Eltominala		3 / STAR / 3	3
Accessories	• • •					
	rs simplex(w/o controller)		Arrow plate for direction of rotation			
BTDs - 1 number	r per bearing(w/o controller)		Double compression glands (main cable)			
•	ingle phase 50z, 230V		Double compression glands (Space heater/Thermisters/RTDs)			
Thermisters - PTO			Brake (Type/voltage/torque)			
	c for Accessories					
Additional T-Box Additional namer						

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			