Man-fa -4	Dhanat Dillag T 4-1		Customar			
Manufacturer	Bharat Bijlee Ltd.		Customer BBL Enguing reference No			
Fype of motor Quantity	3 phase Induction Motor		BBL Enquiry reference No Customer P.O.Number			
<u> </u>	CUSTOME	R TO FURNISH	W.O. No. / SAP No.			
ApplicationCUSTOMER TO FURNISH`ag no.			Output kW / Pole	0.37	1	2P
BBL type Ref.		MD0802A3	Frame size	0.37	/ 	
Installation detai	ils	11120002113	Applicable standards (latest edition)		11300	
	on (Safe / Hazardous)	Hazardous area		FLP Moto	ors: IS/IEC 6	50079-
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 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		T6	Frequency (Hz) and permissible variation	50	±59	%
Type of Explosio		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 starting		DOL	Starting current (%FLC)	600		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		270	
Motor GD ² (kgm ²	·	0.0037	Pull out torque (%FLT)	 	300	
$Load GD^2 (kgm^2)$	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 ABOVE DETAILS	2			
Running Perform	nance	1		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		
Full load current (FLC) amps.		0.8	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		•
Full load speed (rpm)		2880	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	/ II		ole
Full load torque (0.13	Stator/rotor time constant (min)	0.95	90/122	0.70
Mechanical para	t FL/0.75FL/0.5FL	75.0 72.0 67.0	Power factor at FL/0.75FL/0.5FL	0.85	0.78	0.70
Mounting	Intelers	B8	Mounting dimensions	D _c	for GA dray	vina
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Refer GA drawing		<u> </u>
Degree of protect	tion	IP 55	Suitable for bidirectional rotation	Clockwise Yes		
0 1				res		
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/ Pulley/Gearbox)	/flexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		wing
Dimenssions of p	oulley (OD x width) mm	-	Direction of cable entry	As per GA drawing		wing
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	1R X 3C X 4 SQ M		Q 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 GREASE	tominala		3 / STAR / 1	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)			
Space heaters - single phase 50z, 230V			Double compression glands (Space heater/Thermisters/RTDs)			
Thermisters - PTO			Brake (Type/voltage/torque)			
Additional T-Box	x for Accessories					
Additional name						

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			