Manufacturer	Bharat Bijlee Ltd.		Customer			
Type of motor	3 phase Induction Motor		BBL Enquiry reference No			
Quantity	CUSTOME	R TO FURNISH	Customer P.O.Number WONDO/SADNO			
Application	CUSIONE		W.O. No. / SAP No. Output kW / Pole	3.7	1	4P
Fag no.		MD11M433	Frame size	5.7	/ MJ112	41
BBL type Ref. Installation detai	 ;1 ₉	NID1111455	Applicable standards (latest edition)			
		Hazardous area		FI P Mot	ors: IS/IEC 6	50070
Area classification (Safe / Hazardous) Location: indoor/outdoor/deck		Indoor	Dimensions: IS 1231/IS 2223/IS:8223		018. IS/IEC (00079-
Altitude (meters)	OULUOOI/UECK	1000 or less	Vibrations: IS 12075			
Annuae (meters)		1000 01 1655	Noise level: IS 12075			
Hazardous area	dotails		Supply conditions and permissible variations (grid			
-	n GAS (Zone 1/Zone 2)	ZONE I	Number of phases	$\frac{supply}{ }$	Three	
	II OAS (ZOIIC 1/ZOIIC 2)	IIA, IIB	Voltage (Volts) and permisible variation	415	±10	0/
Gas group		T5		50	±10 ±59	
Temp.class			Frequency (Hz) and permissible variation			70
$(\mathbf{EI} \mathbf{D} / \mathbf{T}_{\mathbf{v}}) = \frac{1}{2} \frac{1}{2}$	22 'n')	Ex 'd'	Combined variation (absolute sum)		±10%	
Approving author	rity for hazardous area	If Mine application then DGM				
	•	else PESO				
Electrical param						
Starting perform					~~~	
Method of startin	0	DOL	Starting current (%FLC)	600		
Load speed (rpm)		CUSTOMER TO FURNISH		260		
Motor GD^2 (kgm ²)		0.053	Pull out torque (%FLT)		300	
Load GD 2 (kgm 2)	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	8	/	16
	1		Number of consecutive starts (hot/cold) (nos.)		2/2	
Load torque-spee	ed curve	Parabolic TS curve	provided Load $GD2 = Motor GD2$		2/3	
		PLEASE FURNISH ALL ABO	VE			
Starting time at ra	ated voltage (sec)	DETAILS				
Running Perform	nance					
Efficiency class		-	Duty and designation	Continuous (S1)		S1)
Ambient temp./temp.rise by resistance (deg.C)		45 / 75	CDF/Equivalent starts per hour/FI	-		
		TEFC (TOTALLY ENCLOSE				
Enclosure		FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
ull load current (FLC) amps.		7.3	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		ge
Full load speed (rpm)		1430	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Ŭ		-
Full load torque (FLT) kg-m		2.53	Stator/rotor time constant (min)	#N/A		
▲ ``	t FL/0.75FL/0.5FL	85.0 85.0 82.0	Power factor at FL/0.75FL/0.5FL	0.83	0.76	0.65
Mechanical para						
Mounting		B8	Mounting dimensions	R	efer GA drav	ving
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		0
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		oof
Net weight of motor (kg)		70	Paint shade		632 as per IS 5	
			Earthing provision (two terminals on stator body)	L		~
Bearings			<i>Terminal box</i>			
Coupling (Direct/	flexible/Relt &					
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As	s per GA drav	wing
v ,	ulley (OD x width) mm	_	Direction of cable entry	As nor CA drowing		
puncussions of b				As per GA drawing		
Bearings (roller/b	all/angular contact)	Ball /Ball	Cable size and type(Aluminium)	1R X 3C X 16 SQ MM		
Bearing size DE/NDE		6206 2Z C3/6206 2Z C3	Earthing provision (one terminal in TB)	Yes		
Type of lubrication		LITHIUM SOAP BASE GREA		+	3 / DELTA /	′ 6
Accessories	711	LIIIUWI SUAI DASE UKEA	tominala			0
	s simplex(w/o controller)		Arrow plate for direction of rotation			
			Double compression glands (main cable)			
BTDs - 1 number per bearing(w/o controller)				+		
Space heaters - si	ingle phase 50z, 230V		Double compression glands (Space beater/Thermisters/RTDs)			
Thormistors DT			heater/Thermisters/RTDs)			
Thermisters - PTO			Brake (Type/voltage/torque)			
-suumonal 1-BOX	t for Accessories					
Additional namep		_		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			