Manufacturer Type of motor Quantity						
Quantity	Bharat Bijlee Ltd.		Customer			
<b>~</b> <i>v</i>	3 Phase Induction Motor		BBL Enquiry reference No			
	CUSTON		Customer P.O.Number			
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.	22	1	
Tag no. BBL type tef.			Output kW / pole Frame size	22	200	6
Installation deta	ils	<u> </u>	Applicable standards (latest edition)		200	
Area classificatio	n (Safe / Hazardous)	Industrial safe area	Performance: IS/IEC 60034-1 Maintenance IS:900			
Location: indoor/outdoor/deck Altitude (meters)		Indoor 1000 or less	Dimensions: IS 1231/IS 2223/IS:8223 Vibrations: IS 12075			
			Noise level: IS 12065			
Hazardous area			Supply conditions and permissible variations (grid	d supply)		
Area classification GAS (Zone 1/Zone 2)		N.A.	Number of phases	Three		
Gas group		N.A. N.A.	Voltage (Volts) and permisible variation	415 ±10% 50 ±5%		
Temp.class Type of Explosion protection (FLP/Type		N.A.	Frequency (Hz) and permissible variation Combined variation (absolute sum)	50 ±5% ±10%		
'e'/Type 'n') Approving authority for hazardous area		Not Applicable				
Electrical param	-					
Starting perform					-	
Method of startin	0	DOL	Starting current (%FLC)		600	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		260	
Motor $GD^2$ (kgm	/	1.3	Pull out torque (%FLT)	12	270	
Load GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH Parabolic TS curve	Locked rotor withstand time (hot/cold) (sec) Number of consecutive starts (hot/cold) (nos.)	12	/ 2 / 2	2
Load torque-speed curve Starting time at rated voltage (sec)		PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2	2/3		
Running Perform	<b>U</b> . ,	DETAILS				
Efficiency class		IE2	Duty and designation	Continuous (S1)		
Ambient temp./te	emp.rise by resistance (deg.C)	50 / 70	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.		41.1	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
Full load speed (r		975	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (		22 90.9 90.9 89.5	Stator/rotor time constant (min)	0.82	144/1	
Mechanical para	t FL/0.75FL/0.5FL	90.9 90.9 89.5	Power factor at FL/0.75FL/0.5FL	0.82	0.77	0.
Mounting	inclers.	B5	Mounting dimensions	Re	efer GA o	lrawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clocky	
Degree of protect	ion	IP 55	Suitable for bidirectional rotation	Yes		
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type		Acryl	ic
Net weight of mo		260	Paint shade	RAL 5000		
Net weight of mo	nor (kgs.)	280	Earthing provision (two terminals on stator body)		KAL 5 Yes	
Bearings		L	Terminal box		10.	, 
Coupling (Direct/	/flexible/Belt &	Direct				4
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE		per GA	
Dimenssions of p	oulley (OD x width) mm	-	Direction of cable entry	As	per GA	drawin
	oall/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X	3C x 5	
Bearing size DE/NDE		6312 2Z C3 / 6212 2Z C3	Earthing provision (one terminal in TB)		Yes	
	n	LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		
Type of lubrication		<b>.</b>	1			
Type of lubrication Accessories						
Accessories RTDs - 3 number	rs simplex (w/o controller)		Arrow plate for direction of rotation			
Accessories RTDs - 3 number BTDs - 1 number	r per bearing (w/o controller)		Double compression glands (main cable) Double compression glands (Space			
Accessories RTDs - 3 number BTDs - 1 number Space heaters - si	r per bearing (w/o controller) ingle phase 50z, 230V		Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)			
Accessories RTDs - 3 number BTDs - 1 number Space heaters - si Thermisters - PT0	r per bearing (w/o controller) ingle phase 50z, 230V C , 1 number per phase		Double compression glands (main cable) Double compression glands (Space			
Accessories RTDs - 3 number BTDs - 1 number Space heaters - si Thermisters - PTC Additional T-Box	r per bearing (w/o controller) ingle phase 50z, 230V C , 1 number per phase c for Accessories		Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)			
Accessories RTDs - 3 number BTDs - 1 number Space heaters - si Thermisters - PTU Additional T-Box Additional namep Notes:	r per bearing (w/o controller) ingle phase 50z, 230V C , 1 number per phase c for Accessories plate	0034-1 tolerances, unless otherwise s	Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque)			
Accessories RTDs - 3 number BTDs - 1 number Space heaters - si Thermisters - PTt Additional T-Box Additional namer Notes: 1)All performanc	r per bearing (w/o controller) ingle phase 50z, 230V C, 1 number per phase for Accessories plate we values are subject to IS/IEC 6	50034-1 tolerances, unless otherwise s	Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque) 			
Accessories RTDs - 3 number BTDs - 1 number Space heaters - si Thermisters - PTt Additional T-Box Additional namer Notes: 1)All performance va	r per bearing (w/o controller) ingle phase 50z, 230V C, 1 number per phase for Accessories plate we values are subject to IS/IEC 6	ted frequency condition and for DOL	Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs) Brake (Type/voltage/torque) 			

	Revison			
Project:	Contractor/Client	т	Date:	
Consultant	Package	L	Date.	