Manufacturer	Bharat Bijlee Ltd.		Customer			
Гуре of motor	3 Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.			
Гag no.			Output kW / pole	315	/	2P
BBL type tef. Installation deta	nils		Frame size Applicable standards (latest edition)		3551	
Area classificatio	on (Safe / Hazardous)	Industrial safe area	Performance: IS/IEC 60034-1 Maintenance IS:900			
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		XY 4	Supply conditions and permissible variations (grid	t supply)		
	on GAS (Zone 1/Zone 2)	N.A. N.A.	Number of phases	41.5	Thre	
Gas group		N.A.	Voltage (Volts) and permisible variation Frequency (Hz) and permissible variation	415 ±10% 50 ±5%		±10%
Temp.class Type of Explosion protection (FLP/Type		N.A.	Combined variation (absolute sum)	±10%		
'e'/Type 'n') Approving authority for hazardous area		Not Applicable				
Electrical paran						
Starting perform		- DAY		1		
Method of startin	0	DOL CUSTOMER TO EURNISH	Starting current (%FLC)	700		
Load speed (rpm	,	CUSTOMER TO FURNISH	Starting torque (%FLT)	160		
Motor GD ² (kgm ²)		14.7	Pull out torque (%FLT)	240		
Load GD ² (kgm ²)		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15 / 3		30
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2 / 3		
5	rated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perfor	mance	ШЭ		C		- (61)
Efficiency class	ama nica hu nacistanaa (daa C)	IE2 45 / 75	Duty and designation CDF/Equivalent starts per hour/FI	Continuous (S1)		
Ambient temp./temp.rise by resistance (deg.C) Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
Full load current (FLC) amps.		513	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (rpm)		2985	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (FLT) kg-m Efficiency in % at FL/0.75FL/0.5FL		103 95.0 94.5 93.0	Stator/rotor time constant (min) Power factor at FL/0.75FL/0.5FL	156/211 0.90 0.88 0.8		11 0.84
Mechanical par	ameters		1	1		
Mounting		B5	Mounting dimensions	Re	fer GA d	U
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clockw	
Degree of protection Method of cooling (TEFC/forced cooled/TESC)		IP 55 TEFC (IC 411)	Suitable for bidirectional rotation Paint type	Yes Acrylic		
Net weight of me	otor (kas)	1870	Paint shade		PAL 50	000
Net weight of his	otor (kgs.)	1870		RAL 5000 Yes		
Bearings			Earthing provision (two terminals on stator body) Terminal box		103	
0	t/flexible/Belt &					
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing		drawing
Dimenssions of p	pulley (OD x width) mm	-	Direction of cable entry	As per GA drawing		drawing
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	2R X		0 SQ MN
Bearing size DE/	/NDE	6322 C3 / 6322 C3	Earthing provision (one terminal in TB)		Yes	
Type of lubrication		Unirex-N3 - GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		°A / 6
Accessories				1		
	ers simplex (w/o controller)		Arrow plate for direction of rotation			
	er per bearing (w/o controller) single phase 50z, 230V		Double compression glands (main cable) Double compression glands (Space	-		
Thermisters - PTC , 1 number per phase			heater/thermisters/RTDs) Brake (Type/voltage/torque)			
Additional name	x for Accessories					
· •	5	0034-1 tolerances, unless otherwise s ted frequency condition and for DOL	•			
	Load GD ² assumed wherever no					
4)Where starting		provision of heavy duty relays is man	datory.			
	rovided are marked as "YES"					
				Prepared	by	
				Prepared Approved		

Project:		Contractor/Client		Date:	
Consultant		Package		Date.	