	lijlee					
Manufacturer	Bharat Bijlee Ltd.		Customer			
Type of motor 3 Phase Induction Motor			BBL Enquiry reference No			
Quantity	CUSTON		Customer P.O.Number			
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.	15	,	2
Tag no. BBL type tef.			Output kW / pole Frame size	15	/ 160N	2
Installation deta	ils	<u> </u>	Applicable standards (latest edition)		1001	*1
Area classificatio	n (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			
TY 1	1 / 1		Noise level: IS 12065			
Hazardous area details Area classification GAS (Zone 1/Zone 2)		N.A.	Supply conditions and permissible variations (grid Number of phases	l supply)	Thre	
Gas group		N.A.	Voltage (Volts) and permisible variation	415 ±10%		
Temp.class		N.A.	Frequency (Hz) and permissible variation	50 ±5%		
Type of Explosion protection (FLP/Type 'e'/Type 'n')		N.A.	Combined variation (absolute sum)		±109	%
Approving author	rity for hazardous area	Not Applicable				
Electrical param	neters	L				
Starting perform						
Method of startin	0	DOL	Starting current (%FLC)	650		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		200	
Motor GD ² (kgm	/	0.191	Pull out torque (%FLT)		250	
Load GD ² (kgm ²)		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	8	/	1
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2/3		
Ū	ated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	nance	IE2	Deter on didacionation	C		(C 1)
Efficiency class	mp rise by resistance (deg C)	50 / 70	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.		26.3	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (rpm)		2940	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (4.97	Stator/rotor time constant (min)		90/12	22
Efficiency in % a Mechanical para	t FL/0.75FL/0.5FL	90.3 90.0 88.0	Power factor at FL/0.75FL/0.5FL	0.88	0.87	0.8
Mounting		B5	Mounting dimensions	Re	fer GA d	lrawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clockv	vise
Degree of protect	tion	IP 55	Suitable for bidirectional rotation		Yes	3
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic		
Net weight of mo	tor (kas)	115	Paint shade	RAL 5000		
Ŭ	ioi (kgs.)	115	Earthing provision (two terminals on stator body)		Yes	
Bearings	/flawihla/Dalt 9		Terminal box			
Coupling (Direct/ Pulley/Gearbox)	mexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
	oulley (OD x width) mm	-	Direction of cable entry	As per GA drawing		
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 10 SQ MI		
Bearing size DE/	NDE	6309 2Z C3 / 6209 2Z C3	Earthing provision (one terminal in TB)		Yes	3
Type of lubrication		LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		
Accessories		Γ		-		
	rs simplex (w/o controller)		Arrow plate for direction of rotation			
	r per bearing (w/o controller)		Double compression glands (main cable) Double compression glands (Space			
Space heaters - single phase 50z, 230V Thermisters - PTC, 1 number per phase			heater/thermisters/RTDs) Brake (Type/voltage/torque)			
Additional T-Box for Accessories Additional nameplate						
Notes: 1)All performanc 2)Performance va	e values are subject to IS/IEC 6 alues are at rated voltage and ra .oad GD ² assumed wherever no	provision of heavy duty relays is man	starting condition.	<u> </u>		

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