Manufacturer	Bharat Bijlee Ltd.		Customer			
Type of motor	3 Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
		ER TO FURNISH	W.O. No. / SAP No.			
Гag no.			Output kW / pole	160	/	6P
BBL type tef. Installation deta	tils		Frame size Applicable standards (latest edition)		315L	_
	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	on GAS (Zone 1/Zone 2)	N A	Supply conditions and permissible variations (grid	t supply)	These	
Gas group	on GAS (Zone 1/Zone 2)	N.A. N.A.	Number of phases Voltage (Volts) and permisible variation	415	Three	e ±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)	50	±10%	
Approving authority for hazardous area		Not Applicable				
Electrical paran	neters		1	1		
Starting perform						
Method of startir		DOL	Starting current (%FLC)		600	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	200		
Motor GD <sup>2</sup> (kgm <sup>2</sup> )		21.5	Pull out torque (%FLT)		250	
Load GD <sup>2</sup> (kgm <sup>2</sup> )	)	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	3
0	rated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perfor	mance	152		0		(01)
Efficiency class		IE2 50 / 70	Duty and designation CDF/Equivalent starts per hour/FI	Continuous (S1)		s (SI)
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.	280	Rotor type (Squirrel Cage/ Slip ring )	S	Squirrel (	Cage
Full load speed (		990	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		0
Full load torque (FLT) kg-m Efficiency in % at FL/0.75FL/0.5FL		158 94.8 94.5 93.0	Stator/rotor time constant (min) Power factor at FL/0.75FL/0.5FL	144/194 0.84 0.81 0.7		94 0.71
Mechanical par	ameters		1	1		
Mounting		B8	Mounting dimensions	Ref	ier GA d	U
Shaft extention	4	Single cylindrical IP 55	Direction of rotation viewed from DE Suitable for bidirectional rotation		Clockw	
Degree of protection Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Yes Acrylic		
Net weight of motor (kgs.)		1231	Paint shade	RAL 5000		000
ther weight of inc	(iig))	1001	Earthing provision (two terminals on stator body)		Yes	
Bearings			Terminal box			
Coupling (Direct	/flexible/Belt &	Direct	Terminal how location when viewed from DE	Δ.α	her GA	Irawina
Pulley/Gearbox)			Terminal box location when viewed from DE	As per GA drawing		
Dimenssions of p	oulley (OD x width) mm	-	Direction of cable entry	As p	per GA o	lrawing
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	2R X 3		0 SQ MN
Bearing size DE/	NDE	6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes		
Type of lubricati Accessories	on	Unirex-N3 - GREASE	No of phases/Winding connection/number of terminals	3	/ DELT	'A / 6
	rs simplex (w/o controller)		Arrow plate for direction of rotation			
	r per bearing (w/o controller)		Double compression glands (main cable)			
Space heaters - single phase 50z, 230V			Double compression glands (Space heater/thermisters/RTDs)			
Thermisters - PTC , 1 number per phase Additional T-Box for Accessories			Brake (Type/voltage/torque)			
Additional name Notes:	plate					
		0034-1 tolerances, unless otherwise s ted frequency condition and for DOL				
	Load GD <sup>2</sup> assumed wherever no					
5)Kilowatt rating	g is mandatory and HP is approx	provision of heavy duty relays is man kimate.	datory.			
6) Accessories pr	rovided are marked as "YES"					
				_		
				Prepared b		
				1.4 1.	1	
				Approved Revison	by	

Project:		Contractor/Client		Date:	
Consultant		Package		Date.	