Manufacturer	Bharat Bijlee Ltd.		Customer			
Type of motor         3 Phase Induction Motor			BBL Enquiry reference No			
Quantity	CUCTON		Customer P.O.Number			
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.	0.2	1	40
Fag no. BBL type tef.			Output kW / pole Frame size	9.3	/ 160N	4P
Installation detai	ils		Applicable standards (latest edition)		1001	
Area classification	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			
	J . 4 !]		Noise level: IS 12065	L		
Hazardous area details Area classification GAS (Zone 1/Zone 2)		N.A.	Supply conditions and permissible variations (grid Number of phases	Three		A
Gas group		N.A.	Voltage (Volts) and permisible variation	415 ±10%		
Temp.class		N.A.	Frequency (Hz) and permissible variation			±5%
Type of Explosion protection (FLP/Type 'e'/Type 'n')		N.A.	Combined variation (absolute sum)		±109	
Approving author	ity for hazardous area	Not Applicable				
Electrical param	eters	L				
Starting perform						
Method of startin	0	DOL	Starting current (%FLC)	650		
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		240	
Motor GD <sup>2</sup> (kgm <sup>2</sup>	<i>c</i> )	0.187	Pull out torque (%FLT)		270	
Load GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	8	/	16
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2	2/3		
Starting time at ra		PLEASE FURNISH ALL ABOVE DETAILS				
Running Perforn	nance	IE2	Duty and designation	C	ntinuou	o ( <b>S</b> 1)
Efficiency class	mn 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.		17.6	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
Full load speed (rpm)		1465	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (I	, .	6.18	Stator/rotor time constant (min)		90/12	22
Efficiency in % at Mechanical para	FL/0.75FL/0.5FL	89.4 89.4 87.0	Power factor at FL/0.75FL/0.5FL	0.82	0.76	0.6
Mounting	meters	B8	Mounting dimensions	Re	fer GA d	lrawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	110	Clockw	
Degree of protecti	ion	IP 55	Suitable for bidirectional rotation		Yes	
Method of cooling	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic		
		. ,				
Net weight of more	tor (kgs.)	99	Paint shade		RAL 50	
Bearings	a 11 a 1 a		Earthing provision (two terminals on stator body) <i>Terminal box</i>		Yes	
Coupling (Direct/ Pulley/Gearbox)	iiexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
	ulley (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 3C X 10 SQ MI		
Bearing size DE/N	NDE	6309 2Z C3 / 6209 2Z C3	Earthing provision (one terminal in TB)		Yes	
Type of lubrication		LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		
Accessories						
	s simplex (w/o controller)		Arrow plate for direction of rotation			
BIDs - I number	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 Additional nameplate			Brake (Type/voltage/torque)			
	e values are subject to IS/IEC $\epsilon$			<u> </u>		

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