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.	11	,	40
Tag no. BBL type tef.			Output kW / pole Frame size	11	/ 160M	4P
Installation detail	iils		Applicable standards (latest edition)		10010	-
Area classification	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			
	1.4.11-		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	i suppiy)	Three	<b>`</b>
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)		±10%	)
Approving author	rity for hazardous area	Not Applicable				
Electrical param	neters	L				
Starting perform		-				
Method of startin	ð	DOL	Starting current (%FLC)		650	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)		240	
Motor GD <sup>2</sup> (kgm <sup>2</sup>	,	0.285	Pull out torque (%FLT)		270	
Load GD <sup>2</sup> (kgm <sup>2</sup> )	1	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		
•	rated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	mance	IE2	Dute of designation	Con		(61)
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.		20.5	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 (		7.31	Stator/rotor time constant (min)		90/12	2
Efficiency in % at Mechanical para	at FL/0.75FL/0.5FL	89.8 89.8 88.5	Power factor at FL/0.75FL/0.5FL	0.83	0.78	0.68
Mounting		B5	Mounting dimensions		er GA di	0
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clockw	ise
Degree of protect	tion	IP 55	Suitable for bidirectional rotation		Yes	
Method of cooling	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic		с
Net weight of motor (kgs.)		109	Paint shade	RAL 5000		00
Bearings	(ugo)		Earthing provision (two terminals on stator body) Terminal box		Yes	
Coupling (Direct/	/flexible/Belt &	Direct		<b>A</b> =		
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing		
Dimenssions of p	oulley (OD x width) mm	-	Direction of cable entry	As per GA drawing		lrawing
Bearings (roller/ball/angular contact)		Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 10 SQ M		SQ MN
Bearing size DE/I	NDE		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		A / 6
Accessories RTDs - 3 number	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 namer						
Notes:		50034-1 tolerances, unless otherwise s ted frequency condition and for DOL				

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