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	,	21
Tag no. BBL type tef.			Output kW / pole Frame size	11	/ 160N	2H
Installation detail	ils		Applicable standards (latest edition)		1001	
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			
<b>TY 1</b>	1 / 1		Noise level: IS 12065			
Hazardous area details		N.A.	Supply conditions and permissible variations (grid Number of phases	(supply)	Thre	-
Area classification GAS (Zone 1/Zone 2) 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	
	rity for hazardous area	Not Applicable				
Electrical param	neters					
Starting perform	nance					
Method of startin	9	DOL	Starting current (%FLC)		650	
Load speed (rpm)		CUSTOMER TO FURNISH	Starting torque (%FLT)	210		
Motor GD <sup>2</sup> (kgm		0.16	Pull out torque (%FLT)		260	
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		
0	ated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	nance	IF 2		0		(01)
Efficiency class	man miga hay magistan as (dag C)	IE2 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.		19.5	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
Full load speed (r	•	2940	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (	(FLT) kg-m	3.64	Stator/rotor time constant (min)		90/12	22
Efficiency in % at Mechanical para	t FL/0.75FL/0.5FL	89.4 89.4 87.0	Power factor at FL/0.75FL/0.5FL	0.88	0.85	0.7
Mounting		B3	Mounting dimensions	Re	fer GA d	0
Shaft extention	·	Single cylindrical IP 55	Direction of rotation viewed from DE		Clocky Yes	
Degree of protect	non	IP 55	Suitable for bidirectional rotation		res	
Method of cooling	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic		
Net weight of mo	otor (kgs.)	104	Paint shade	RAL 5000		
Bearings			Earthing provision (two terminals on stator body) <i>Terminal box</i>		Yes	•
Coupling (Direct/	/flexible/Belt &	Direct	Terminal box location when viewed from DE	Ac	per GA	drawing
Pulley/Gearbox)		Ditt		As per GA drawing		
Dimenssions of p	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			Earthing provision (one terminal in TB) No of phases/Winding connection/number of	Yes		
Type of lubrication	on	LITHIUM SOAP BASE GREASE	terminals	3	/ DELI	FA / 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 namer	plate					
	alues are at rated voltage and rate $\operatorname{GD}^2$ assumed wherever no	50034-1 tolerances, unless otherwise s tted frequency condition and for DOL of mentioned. provision of heavy duty relays is man	starting condition.			

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