	Bijlee	Duiu sheet	for motors			
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.	1.1	,	21
Tag no. BBL type tef.			Output kW / pole Frame size	1.1	/ 80	21
Installation deta	iils		Applicable standards (latest edition)		00	
Area classificatio	on (Safe / Hazardous)	Industrial safe area	Performance: IS/IEC 60034-1 Maintenance IS:900			
Location: indoor/outdoor/deck Altitude (meters)		Indoor 1000 or less	Dimensions: IS 1231/IS 2223/IS:8223 Vibrations: IS 12075			
			Noise level: IS 12065			
Hazardous area	details		Supply conditions and permissible variations (grid	d supply)		
Area classification GAS (Zone 1/Zone 2)		N.A.	Number of phases		Thre	
Gas group		N.A. N.A.	Voltage (Volts) and permisible variation			±10%
Temp.class Type of Explosion protection (FLP/Type		N.A.	Frequency (Hz) and permissible variation Combined variation (absolute sum)	50	±109	±5% %
'e'/Type 'n') Approving authority for hazardous area		Not Applicable				
Electrical paran	•					
Starting perform			1	1		
Method of startir	ð	DOL	Starting current (%FLC)		550	
Load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)		270	
Motor GD ² (kgm	,	0.0034	Pull out torque (%FLT)		300	
Load GD ² (kgm ²)		CUSTOMER TO FURNISH Parabolic TS curve	Locked rotor withstand time (hot/cold) (sec) Number of consecutive starts (hot/cold) (nos.)	15	/ 2/3	30
Load torque-speed curve		PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2		21.	~
Starting time at r	mance (sec)	DETAILS				
Efficiency class		IE2	Duty and designation	Continuous (S1)		
Ambient temp./te	emp.rise by resistance (deg.C)	50 / 70	CDF/Equivalent starts per hour/FI	-		
Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	F/B		
Full load current (FLC) amps.		2.37	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (rpm)		2855	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque		0.38	Stator/rotor time constant (min)	0.91	90/12	
Mechanical par	at FL/0.75FL/0.5FL	79.6 79.6 79.6	Power factor at FL/0.75FL/0.5FL	0.81	0.75	0.6
Mounting		B3	Mounting dimensions	Ret	fer GA o	Irawing
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clockv	vise
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes		
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic		ic
Net weight of mo	otor (kgs.)	11	Paint shade			000
Net weight of his	for (kgs.)	11	Earthing provision (two terminals on stator body)	RAL 5000 Yes		
Bearings			Terminal box		100	
Coupling (Direct	/flexible/Belt &	Direct		Α.	nor C A	drowin
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	-	per GA	
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)	1R X 3C X 4 SQ MM		
Bearing size DE/NDE		6004 2Z C3 / 6004 2Z C3	Earthing provision (one terminal in TB)		Yes	
Type of lubricati	on	LITHIUM SOAP BASE GREASE	No of phases/Winding connection/number of terminals	3 / STAR / 6		
Accessories		<u> </u>	community (1		
	rs simplex (w/o controller)		Arrow plate for direction of rotation			
BTDs - 1 number per bearing (w/o controller)			Double compression glands (main cable) Double compression glands (Space			
Space heaters - single phase 50z, 230V			heater/thermisters/RTDs)			
	C, 1 number per phase		Brake (Type/voltage/torque)			
	x for Accessories					
Additional T-Boz			1	I		
Additional T-Box Additional name						
Additional T-Bo Additional name Notes:	plate	50034-1 tolerances, unless otherwise s	pecified.			
Additional T-Bo Additional name Notes: 1)All performance	plate we values are subject to IS/IEC ϵ	50034-1 tolerances, unless otherwise s ated frequency condition and for DOL				
Additional T-Box Additional name Notes: 1)All performance 2)Performance v	plate we values are subject to IS/IEC ϵ	ated frequency condition and for DOL				
Additional T-Bo: Additional name Notes: 1)All performance 2)Performance v 3)Motor GD ² = I 4)Where starting	plate ev values are subject to IS/IEC 6 alues are at rated voltage and ra Load GD ² assumed wherever no	ated frequency condition and for DOL of mentioned. provision of heavy duty relays is man	starting condition.			
Additional T-Bo: Additional name Notes: 1)All performance v 3)Motor GD ² = I 4)Where starting 5)Kilowatt rating	plate evalues are subject to IS/IEC 6 alues are at rated voltage and ra Load GD ² assumed wherever no time is more than 10 seconds,	ated frequency condition and for DOL of mentioned. provision of heavy duty relays is man	starting condition.			
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Project:	Contractor/Client	Da	Date:	
Consultant	Package	Da	ale.	