	Bijlee	Data sheet	t for motors			
Manufacturer	Bharat Bijlee Ltd.		Customer			
Type of motor	3 Phase Induction Motor		BBL Enquiry reference No			
Quantity			Customer P.O.Number			
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.			
Гаg no.			Output kW / pole	3.7	/	2P
BBL type tef.			Frame size		100L	
nstallation deta	uls		Applicable standards (latest edition)			
Area classification (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	details		Supply conditions and permissible variations (grid	d supply)		
	on GAS (Zone 1/Zone 2)	N.A.	Number of phases		Three	e
Gas group		N.A.	Voltage (Volts) and permisible variation	415		±10%
Femp.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%	1
Approving autho	prity for hazardous area	Not Applicable				
Electrical paran	neters	,				
Starting perform	nance					
Method of startir	0	DOL	Starting current (%FLC)		650	
Load speed (rpm	1)	CUSTOMER TO FURNISH	Starting torque (%FLT)	280		
Aotor GD <sup>2</sup> (kgm	n <sup>2</sup> )	0.0142	Pull out torque (%FLT)		310	
Load GD <sup>2</sup> (kgm <sup>2</sup> )	,	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
		D1 11 770	Number of consecutive starts (hot/cold) (nos.)		2.12	
Load torque-spee	ea curve	Parabolic TS curve	provided Load $GD2 = Motor GD2$		2/3	
Stoutin - time	inted violtance ()	PLEASE FURNISH ALL ABOVE		•		
starting time at r	rated voltage (sec)	DETAILS				
Running Perform	mance					
Efficiency class		IE2	Duty and designation	Co	ontinuous	s (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.		6.84	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage		
Full load speed (	rpm)	2890	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (	(FLT) kg-m	1.25	Stator/rotor time constant (min)		108/14	6
2	at FL/0.75FL/0.5FL	85.5 85.5 83.0	Power factor at FL/0.75FL/0.5FL	0.88	0.83	0.73
Mechanical part	ameters	T				
Mounting		B8	Mounting dimensions	Ret	fer GA d	U
Shaft extention		Single cylindrical	Direction of rotation viewed from DE		Clockw	ise
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes		
Method of coolir	ng (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic		с
X 1 . C		24		-		00
Net weight of mo	otor (kgs.)	24	Paint shade	RAL 5000		
0			Earthing provision (two terminals on stator body) Terminal box		Yes	
Bearings Coupling (Direct	flowible /Dalt &	T	Terminai box			
oupling (Direct Pulley/Gearbox)	/nexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		lrawing
	pulley (OD x width) mm		Direction of cable entry	As per GA drawing		
	and (OD A widen) IIIII			As per GA drawing 1R X 3C X 10 SO MM (		
Bearings (roller/h	ball/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 10 SQ MM C 2R X 3C X 10 SQ MM		
Bearing size DE/	NDE	6206 2Z C3 / 6205 2Z C3	Earthing provision (one terminal in TB)		Yes	~ ~1
U U			No of phases (Winding connection/number of			
Type of lubrication	on	LITHIUM SOAP BASE GREASE	terminals	3 / DELTA / 6		
Accessories		<u>.</u>				
RTDs - 3 numbe	ers simplex (w/o controller)		Arrow plate for direction of rotation			
	er per bearing (w/o controller)		Double compression glands (main cable)			
			Double compression glands (Space			
-	ingle phase 50z, 230V		heater/thermisters/RTDs)			
Thermisters - PTC, 1 number per phase			Brake (Type/voltage/torque)			
	x for Accessories					
Additional T-Box	plate					
Additional T-Box Additional name						
Additional T-Box Additional name Notes:			specified.			
Additional T-Box Additional name Notes: )All performance		50034-1 tolerances, unless otherwise s				
Additional T-Box Additional name <b>Notes:</b> ()All performance 2)Performance ve	alues are at rated voltage and ra	ated frequency condition and for DOL	starting condition.			
Additional T-Boz Additional name <b>Votes:</b> 1)All performance 2)Performance v 3)Motor GD <sup>2</sup> = I	alues are at rated voltage and ra Load GD <sup>2</sup> assumed wherever no	ated frequency condition and for DOL of mentioned.	-			
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Project:	Contractor/Client		Date:	
Consultant	Package		Date.	