	Bijlee	Data sheet	jor 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.			
FF no.			Output kW / pole	3.7	1	4P
BBL type tef.			Frame size	5.7	, 112M	
Installation deta	uils		Applicable standards (latest edition)	1	1121	•
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			
Iazardous area	details		Supply conditions and permissible variations (grid	d supply)		
Area classification 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%	ò
Approving authority for hazardous area		Not Applicable				
Electrical paran						
tarting perform		DOI		1	200	
Method of starting		DOL CUSTOMED TO ELIDNICH	Starting current (%FLC)	600		
load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)	260		
Motor GD ² (kgm ²)		0.0494	Pull out torque (%FLT)		300	
load GD ² (kgm ²))	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	8	/	16
Load torque-spee	ed curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	
Starting time at rated voltage (sec)		PLEASE FURNISH ALL ABOVE DETAILS	Provided Edite OD2 - HORDE OD2	1		
Dunning Donform		DETAILS				
Running Perform	mance	IE2	Deter of designation	Co		· (C1)
Efficiency class	······································		Duty and designation	Co	ntinuous	s (SI)
Enclosure	emp.rise by resistance (deg.C)	50 / 70 TEFC (TOTALLY ENCLOSED	CDF/Equivalent starts per hour/FI Insulation class / utilisation class on DOL	- F/B		
Liiciosure		FAN COOLED)	Insulation class / utilisation class on DOL			
Full load current (FLC) amps.		7.36	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (1445	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		
Full load torque (FLT) kg-m		2.49	Stator/rotor time constant (min)	#N/A		
2	at FL/0.75FL/0.5FL	86.3 86.3 85.0	Power factor at FL/0.75FL/0.5FL	0.81	0.76	0.64
Mechanical para	ameters		1	1		
Mounting		B3	Mounting dimensions		er GA d	0
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes		
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Acrylic		с
<u> </u>				-		
Net weight of mo	otor (kgs.)	32	Paint shade	RAL 5000		
			Earthing provision (two terminals on stator body)		Yes	
Bearings			Terminal box	1		
Coupling (Direct	t/flexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
Pulley/Gearbox)						
Jimenssions of p	pulley (OD x width) mm	-	Direction of cable entry	As per GA drawing		0
Bearings (roller/t	ball/angular contact)	Ball /Ball	Cable size and type(Aluminium)	1R X 3C X 10 SQ MM (2R X 3C X 10 SQ MM		-
0 1				2R X (SQ MM
Bearing size DE/NDE		6206 2Z C3 / 6205 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			1	1		
	ers simplex (w/o controller)		Arrow plate for direction of rotation			
BTDs - 1 numbe	r per bearing (w/o controller)		Double compression glands (main cable)			
Space heaters - s	ingle phase 50z, 230V		Double compression glands (Space heater/thermisters/RTDs)			
Thermisters - PT	°C, 1 number per phase		Brake (Type/voltage/torque)			
Additional T-Box for Accessories						
Additional name	plate					_
Notes:						
)All performance	ce values are subject to IS/IEC 6	0034-1 tolerances, unless otherwise s	specified.			
)Performance v	alues are at rated voltage and ra	ted frequency condition and for DOL	starting condition.			
	Load GD ² assumed wherever no					
5)Kilowatt rating	g is mandatory and HP is appro	provision of heavy duty relays is man ximate.	datory.			
 Accessories pr 	rovided are marked as "YES"					
				D		
				Prepared b		
				Approved	DY	
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Project:	Contractor/Client		Date:	
Consultant	Package		Date.	