Bharat B	ilice	Data sheel	t for motors		
Manufacturer	Bharat Bijlee Ltd.		Customer		
Type of motor	Phase Induction Motor		BBL Enquiry reference No		
Quantity			Customer P.O.Number		
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.		
Гag no.			Output kW / pole	132 /	4P
BBL type tef.			Frame size	315	М
Installation detail	us		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	ł	Supply conditions and permissible variations (grid	l supply)	
Area classification GAS (Zone 1/Zone 2)		N.A.	Number of phases	Three	
Gas group		N.A.	Voltage (Volts) and permisible variation	415 ±10%	
Femp.class		N.A.	Frequency (Hz) and permissible variation	50 ±5%	
	n protection (FLP/Type	N.A.	Combined variation (absolute sum)	±10	%
'e'/Type 'n')		14.24.	combined variation (absolute sum)	110	70
Approving author	rity for hazardous area	Not Applicable			
11 0	5	st rppleable			
Electrical param					
Starting perform		DOI			0
Method of starting		DOL CUSTOMER TO FURNISH	Starting current (%FLC) Starting targue (% FL T)	650	
Load speed (rpm)			Starting torque (%FLT)	250 300	
Motor GD <sup>2</sup> (kgm <sup>2</sup> )		11.7	Pull out torque (%FLT)		
Load GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15 / 30	
Load torque-speed curve		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.)	2 / 3	
		DI EACE EUDNIQUIALL ADONT	provided Load GD2 = Motor GD2		
Starting time at ra	ated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS			
Running Perform	nance	DETAILS			
Running Performance Efficiency class		IE2	Duty and designation	Continuo	us (S1)
	emp.rise by resistance (deg.C)	50 / 70	CDF/Equivalent starts per hour/FI	Continuous (S1)	
•	inpluse by resistance (degre)	TEFC (TOTALLY ENCLOSED	· · ·		
Enclosure		FAN COOLED)	Insulation class / utilisation class on DOL	F/B	
Full load current (FLC) amps.		225	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage	
Full load speed (r		1487	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable	
Full load torque (FLT) kg-m		86.5	Stator/rotor time constant (min)	120/162	
Efficiency in % at	t FL/0.75FL/0.5FL	94.7 94.5 93.0	Power factor at FL/0.75FL/0.5FL	0.86 0.83	0.76
Mechanical para	umeters	-		-	
Mounting		B8	Mounting dimensions	Refer GA	0
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clock	
Degree of protect	ion	IP 55	Suitable for bidirectional rotation	Yes	
Method of cooling (TEFC/forced cooled/TESC)		TEFC (IC 411)	Paint type	Acrylic	
		065		-	
Net weight of mo	otor (kgs.)	965	Paint shade	RAL 5000 Yes	
Deaninea			Earthing provision (two terminals on stator body) Terminal box	re	s
Bearings Coupling (Direct/	flowible/Polt &		Terminai box		
Pulley/Gearbox)	mexible/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing	
	oulley (OD x width) mm	-	Direction of cable entry	As per GA drawing	
Dimenssions of pulley (OD x width) mm			•		
Bearings (roller/b	oall/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 185 SQ M	
Bearing size DE/NDE		6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes	
			No of phases/Winding connection/number of		
Type of lubrication		Unirex-N3 - GREASE	terminals	3 / DELTA / 6	
Accessories					
	rs simplex (w/o controller)		Arrow plate for direction of rotation		
3TDs - 1 number	r per bearing (w/o controller)		Double compression glands (main cable)		
Space heaters - si	ingle phase 50z. 230V		Double compression glands (Space		
Space heaters - single phase 50z, 230V			heater/thermisters/RTDs)		
	C, 1 number per phase		Brake (Type/voltage/torque)		
Additional T-Box					
Additional namer	piate				
Notes:	a values are subject to IS/IEC of	50034-1 tolerances, unless otherwise	spacified		
· •	0	ted frequency condition and for DOL			
	Load GD <sup>2</sup> assumed wherever no		statung continuon.		
		of mentioned. provision of heavy duty relays is man	datory		
, 0	is mandatory and HP is approx		uatory.		
-	ovided are marked as "YES"	Annato.			
5) Accessories pr	ovideu are markeu as TES				
				Prepared by	
				Approved by	
				Revison	
		Contractor/Client		10010011	

Project:		Contractor/Client		Date:	
Consultant		Package		Date.	