Bharat E	silice	Data sheel	t for motors		
Manufacturer	Bharat Bijlee Ltd.		Customer		
Type of motor	3 Phase Induction Motor		BBL Enquiry reference No		
Quantity			Customer P.O.Number		
		ER TO FURNISH	W.O. No. / SAP No.		
Гag no.			Output kW / pole	125 /	4P
BBL type tef.			Frame size	315	5M
nstallation deta	nils	-	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		
	T T		Noise level: IS 12065		
Hazardous area		NY A	Supply conditions and permissible variations (grid		
Area classification GAS (Zone 1/Zone 2)		N.A.	Number of phases	Three	
Gas group		N.A.	Voltage (Volts) and permisible variation	415 ±10% 50 ±5%	
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)%
11 0	rity for hazardous area	Not Applicable			
Electrical paran					
starting perform				1	
Method of startir	0	DOL	Starting current (%FLC)	650	
Load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)	250	
Motor GD ² (kgm	,	11.7	Pull out torque (%FLT)	30	0
Load GD ² (kgm ²))	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15 /	30
		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.)	2	/3
Load torque-spee	ea curve	rarabolic 15 curve	provided Load GD2 = Motor GD2	2/3	
Starting time at rated voltage (sec)		PLEASE FURNISH ALL ABOVE DETAILS			
Running Perform	mance				
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.		216	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage	
Full load speed (1486	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable	
Full load torque (FLT) kg-m Efficiency in % at FL/0.75FL/0.5FL		81.9 94.6 94.3 92.7	Stator/rotor time constant (min) Power factor at FL/0.75FL/0.5FL	120/162 0.85 0.81 0.7	
Mechanical par	ameters	72			
Mounting Shaft extention		B3 Single cylindrical	Mounting dimensions Direction of rotation viewed from DE	Refer GA Clock	U
Degree of protect	tion	IP 55	Suitable for bidirectional rotation	Ye	
Method of coolin	ng (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic	
Net weight of motor (kgs.)		965	Paint shade	RAL 5000	
Bearings			Earthing provision (two terminals on stator body) Terminal box	Ye	es
Coupling (Direct	/flexible/Belt &	D:			1 .
Pulley/Gearbox)		Direct	Terminal box location when viewed from DE	As per GA drawing	
Dimensions of pulley (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 185 SQ MM	
e .	<u> </u>				
Bearing size DE/	NDE	6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Yes	
Type of lubrication		Unirex-N3 - GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6	
Accessories		1		I	
	rs simplex (w/o controller)		Arrow plate for direction of rotation		
	r per bearing (w/o controller)		Double compression glands (main cable)		
			Double compression glands (Space		
-	ingle phase 50z, 230V		heater/thermisters/RTDs)		
	°C, 1 number per phase		Brake (Type/voltage/torque)		
	x for Accessories				
Additional name	plate				
Notes:					
	5	50034-1 tolerances, unless otherwise			
	-	ted frequency condition and for DOL	starting condition.		
	Load GD ² assumed wherever no				
, .		provision of heavy duty relays is man	idatory.		
-	g is mandatory and HP is approx	ximate.			
Accessories pr	rovided are marked as "YES"				
				Prepared by	
				Approved by	
				,	
Project.		Contractor/Client		Revison	

Project:		Contractor/Client		Date:	
Consultant		Package			