Bharat E		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		
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.		
Гag no.			Output kW / pole	90 /	6P
BBL type tef. Installation details			Frame size	315	М
installation deta	uis		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		
mande (meters)			Noise level: IS 12065		
Hazardous area	details	Į	Supply conditions and permissible variations (grid	t supply)	
Area classification GAS (Zone 1/Zone 2)		N.A.	Number of phases	Thr	ee
Gas group		N.A.	Voltage (Volts) and permisible variation	415 ±10%	
Femp.class		N.A.	Frequency (Hz) and permissible variation	50	±5%
	on protection (FLP/Type	N.A.	Combined variation (absolute sum)	±10	%
'e'/Type 'n')		14.24.	combined variation (absolute sum)	110	/0
Approving autho	prity for hazardous area	Not Applicable			
	5	T (ot 1 pp neutro			
Electrical paran					
Starting perform		DOI	Stanting around (0/ ELC)	~~~	0
Method of starting		DOL CUSTOMER TO EURNISH	Starting current (%FLC) Starting torque (%FLT)	600	
Load speed (rpm)		CUSTOMER TO FURNISH 12.4	Starting torque (%FLT)	220 250	
Motor GD <sup>2</sup> (kgm <sup>2</sup> )			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-spee	ed 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 r	rated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS			
Running Perfor	manco	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)	
		TEFC (TOTALLY ENCLOSED	· · ·		
Enclosure		FAN COOLED)	Insulation class / utilisation class on DOL	F/B	
Full load current (FLC) amps.		159	Rotor type (Squirrel Cage/ Slip ring )	Squirrel Cage	
Full load speed (rpm)		989	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not app	0
Full load torque (FLT) kg-m		88.6	Stator/rotor time constant (min)	120/162	
Efficiency in % a	at FL/0.75FL/0.5FL	94.0 94.0 92.9	Power factor at FL/0.75FL/0.5FL	0.84 0.80	0.74
Mechanical pare	ameters				
Mounting		B3	Mounting dimensions	Refer GA	U
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clock	
Degree of protection		IP 55	Suitable for bidirectional rotation	Yes	
Method of coolin	ng (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acry	lic
		· · ·		-	
Net weight of mo	DIOT (Kgs.)	912	Paint shade	RAL 5000 Yes	
Roarings			Earthing provision (two terminals on stator body) Terminal box	Ye	3
Bearings	flevible/Belt &				
Coupling (Direct/flexible/Belt & Pulley/Gearbox)		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/t	ball/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 185 SQ MI	
Bearing size DE/	/NDE	6319 C3 / 6319 C3	Earthing provision (one terminal in TB)	Ye	s
			No of phases/Winding connection/number of	3 / DELTA / 6	
Type of lubrication	on	Unirex-N3 - GREASE	terminals	3 / DEL	1A/6
Accessories					
	ers simplex (w/o controller)		Arrow plate for direction of rotation		
3TDs - 1 numbe	er per bearing (w/o controller)		Double compression glands (main cable)		
Space heaters - s	ingle phase 50z, 230V		Double compression glands (Space		
<u> </u>			heater/thermisters/RTDs)		
	C, 1 number per phase		Brake (Type/voltage/torque)		
	x for Accessories				
Additional name	piate				
Notes:	ce values are subject to IS/IEC 4	50034-1 tolerances, unless otherwise	specified		
· •	5	ted frequency condition and for DOL	•		
	Load $GD^2$ assumed wherever no		, statung continuon.		
		of mentioned. provision of heavy duty relays is man	datory		
, .	g is mandatory and HP is approx		uatory.		
-	rovided are marked as "YES"	Annatt.			
0) Accessories pr	Tovided are marked as TES				
				Prepared by	
				Approved by	
				Revison	
Project.		Contractor/Client		ICC VISOII	

Project:		Contractor/Client		Date:	
Consultant		Package		Date.	