Bharat B		Daid 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.			
Tag no.			Output kW / pole	37	1	6P
BBL type tef.			Frame size	57	250N	
Installation deta	iils		Applicable standards (latest edition)	1	2001	•
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)		
Area classificatio	on GAS (Zone 1/Zone 2)	N.A.	Number of phases		Three	e
Gas group		N.A.	Voltage (Volts) and permisible variation	415		±10%
Temp.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%	)
Approving authority for hazardous area		Not Applicable				
Electrical param	neters					
Starting perform		Day				
Method of startin	0	DOL	Starting current (%FLC)		650	
Load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)		250	
Motor GD <sup>2</sup> (kgm	1 <sup>2</sup> )	3.25	Pull out torque (%FLT)		270	
Load GD <sup>2</sup> (kgm <sup>2</sup> )		CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	12	/	24
Load torque-spee		Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.)		2/3	
Starting time at rated voltage (sec)		PLEASE FURNISH ALL ABOVE	provided Load GD2 = Motor GD2			
0		DETAILS				
Running Perforn	munce	IE2	Duty and designation	C	ontinuou	(\$1)
Efficiency class		<u>1E2</u> 50 / 70	Duty and designation CDF/Equivalent starts per hour/FI		minuou	(16)
Ambient temp./temp.rise by resistance (deg.C) Enclosure		TEFC (TOTALLY ENCLOSED	Insulation class / utilisation class on DOL		- F/B	
Full load arrest	(FI C) amp;	FAN COOLED) 63.4	Potor tupo (Squirrel Coss/ Slip size )		Samineal	7900
Full load current (FLC) amps.		63.4 980	Rotor type (Squirrel Cage/ Slip ring ) Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Squirrel Cage		<u> </u>
Full load speed (rpm)				Not applicable 108/146		
Full load torque (		36.8	Stator/rotor time constant (min)	0.00		
2	tt FL/0.75FL/0.5FL	92.2 92.2 91.8	Power factor at FL/0.75FL/0.5FL	0.88	0.85	0.78
Mechanical para Mounting	umeters	B8	Mounting dimension-	n	for C A 1	rousin -
Mounting			Mounting dimensions	ке	fer GA d	0
Shaft extention		Single cylindrical	Direction of rotation viewed from DE	Clockwise		
Degree of protect	tion	IP 55	Suitable for bidirectional rotation	Yes		
Method of coolin	g (TEFC/forced cooled/TESC)	TEFC (IC 411)	Paint type	Acrylic		с
N		500		-		
Net weight of mo	otor (kgs.)	500	Paint shade	RAL 5000		00
Doguin			Earthing provision (two terminals on stator body)	I	Yes	
Bearings	/flowible/Dalt 9		Terminal box	1		
Coupling (Direct	/iiexibie/Belt &	Direct	Terminal box location when viewed from DE	As per GA drawing		
Pulley/Gearbox)	oulley (OD x width) mm					
onnenssions of p	Juncy (OD x widui) mm	-	Direction of cable entry	As per GA drawing		
Bearings (roller/t	oall/angular contact)	Ball /Ball	Cable size and type(Aluminium)	2R X 3C X 120 SQ M		0 SQ MI
Bearing size DE/	NDE	6315 C3 / 6215 C3	Earthing provision (one terminal in TB)		Yes	
Type of lubrication		SKF LGMT3- GREASE	No of phases/Winding connection/number of terminals	3 / DELTA / 6		
Accessories		<u> </u>	contailuis	I		
	rs simplex (w/o controller)		Arrow plate for direction of rotation			
	r per bearing (w/o controller)		Double compression glands (main cable)			
Space heaters - single phase 50z, 230V			Double compression glands (Space			
Thermisters - PTC, 1 number per phase			heater/thermisters/RTDs) Brake (Type/voltage/torque)			
Additional T-Box for Accessories						
Additional name	риае	<u> </u>		L		
· •	5	50034-1 tolerances, unless otherwise s	•			
	-	ted frequency condition and for DOL	starting condition.			
3)Motor $GD^2 = I$	Load GD <sup>2</sup> assumed wherever no	ot mentioned.				
4)Where starting	g is mandatory and HP is approx	provision of heavy duty relays is man ximate.	datory.			
5)Kilowatt rating	rovided are marked as "YES"					
5)Kilowatt rating	to find the marked us TES					
5)Kilowatt rating						
5)Kilowatt rating						
5)Kilowatt rating				Prenared	by	
5)Kilowatt rating				Prepared		
5)Kilowatt rating				Prepared Approved Revison		

Project:	Contractor/Client	Da	Date:	
Consultant	Package	Da	ale.	