Manufacturer Type of motor Opentity	D 1 D 11 T 1					
~1	Bharat Bijlee Ltd.		Customer			
Quantite	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	2.2	/ 112N	6P
BBL type tef. Installation deta	ils		Frame size Applicable standards (latest edition)		11210	4
Area classification (Safe / Hazardous) Location: indoor/outdoor/deck Altitude (meters)		Industrial safe area Indoor	Performance: IS/IEC 60034-1 Maintenance IS:900 Dimensions: IS 1231/IS 2223/IS:8223			
		1000 or less	Vibrations: IS 12075			
			Noise level: IS 12065			
Hazardous area			Supply conditions and permissible variations (grid	d supply)		
Area classification GAS (Zone 1/Zone 2)		N.A. N.A.	Number of phases	Three		
Gas group		N.A. N.A.	Voltage (Volts) and permisible variation Frequency (Hz) and permissible variation	415 ±10% 50 ±5%		
Temp.class Type of Explosion protection (FLP/Type		N.A.	Combined variation (absolute sum)	50 ±5% ±10%		
'e'/Type 'n') Approving authority for hazardous area		Not Applicable				
Electrical paran	5					
Starting perform						
Method of startir	0	DOL CUSTOMED TO ELENISH	Starting current (%FLC)		550	
Load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)		210	
Motor GD ² (kgm		0.0609	Pull out torque (%FLT)		250	
Load GD ² (kgm ²)	1	CUSTOMER TO FURNISH	Locked rotor withstand time (hot/cold) (sec)	15	/	30
Load torque-spec	ed curve	Parabolic TS curve	Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2		2/3	3
č	ated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perform	nance	TEO.		0		(01)
Efficiency class	man miga hay magistan as (dag C)	IE2 50 / 70	Duty and designation CDF/Equivalent starts per hour/FI	Con	tinuou	s (SI)
Enclosure	emp.rise by resistance (deg.C)	TEFC (TOTALLY ENCLOSED	Insulation class / utilisation class on DOL	- F/B		
		FAN COOLED)		C.		C
Full load current		5 955	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		0
Full load speed (rpm)		933	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not applicable		cable
		2.24	States/actor time constant (min)		#NI/A	
Full load torque (Efficiency in % a	(FLT) kg-m t FL/0.75FL/0.5FL	2.24 81.8 81.8 79.8	Stator/rotor time constant (min) Power factor at FL/0.75FL/0.5FL		#N/A).65	0.56
Full load torque (Efficiency in % a Mechanical pare	(FLT) kg-m t FL/0.75FL/0.5FL	81.8 81.8 79.8	Power factor at FL/0.75FL/0.5FL	0.75 (0.65	0.56
Full load torque (Efficiency in % a Mechanical para Mounting	(FLT) kg-m t FL/0.75FL/0.5FL			0.75 (Refe	0.65	0.56 rawing
Full load torque (Efficiency in % a Mechanical pare Mounting Shaft extention	FLT) kg-m t FL/0.75FL/0.5FL ameters	81.8 81.8 79.8 B5	Power factor at FL/0.75FL/0.5FL Mounting dimensions	0.75 (Refe	0.65 er GA d	0.56 rawing vise
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect	FLT) kg-m t FL/0.75FL/0.5FL ameters	81.8 81.8 79.8 B5 Single cylindrical	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE	0.75 (Refe).65 er GA d Clockw	0.56 rawing vise
Full load torque (Efficiency in % a Mechanical pare Mounting Shaft extention Degree of protect Method of coolin	FLT) kg-m t FL/0.75FL/0.5FL ameters tion g (TEFC/forced cooled/TESC)	81.8 81.8 79.8 B5 Single cylindrical IP 55	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation	0.75 () Refe).65 er GA d Clockw Yes	0.56 rawing vise
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo	FLT) kg-m t FL/0.75FL/0.5FL ameters tion g (TEFC/forced cooled/TESC)	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411)	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body)	0.75 () Refe	0.65 er GA d Clockw Yes Acryli	0.56 rawing vise c
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings	FLT) kg-m t FL/0.75FL/0.5FL ameters tion g (TEFC/forced cooled/TESC) otor (kgs.)	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411)	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade	0.75 () Refe	0.65 er GA d Clockw Yes Acryli RAL 50	0.56 rawing vise c
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct	FLT) kg-m t FL/0.75FL/0.5FL ameters tion g (TEFC/forced cooled/TESC) otor (kgs.)	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411)	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body)	0.75 ().65 er GA d Clockw Yes Acryli RAL 50 Yes	0.56 rawing vise c
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox)	FLT) kg-m t FL/0.75FL/0.5FL ameters tion g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt &	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411) 32 32	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) <i>Terminal box</i> Terminal box location when viewed from DE	0.75 (Refe	D.65 er GA d Clockw Yes Acryli RAL 50 Yes er GA c	0.56 rawing rise c 000 drawing
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p	FLT) kg-m t FL/0.75FL/0.5FL ameters tion g (TEFC/forced cooled/TESC) otor (kgs.)	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411) 32 32	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) Terminal box	0.75 (Refe	D.65 er GA d Clockw Yes Acryli RAL 50 Yes er GA c X 10 S	0.56 rawing rise c 000 lrawing lrawing Q MM O
Full load torque (Efficiency in % a Mechanical pare Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t	FLT) kg-m t FL/0.75FL/0.5FL ameters tion g (TEFC/forced cooled/TESC) otor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact)	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411) 32 Direct - Ball /Ball	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) Terminal box Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium)	0.75 (Refe	D.65 rr GA d Clockw Yes Acryli RAL 50 Yes er GA c er GA c X 10 S GC X 10	0.56 rawing rise c 000 drawing drawing Q MM O 0 SQ MM
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller// Bearing size DE/	FLT) kg-m t FL/0.75FL/0.5FL ameters iion g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411) 32 Direct - Ball /Ball	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) Terminal box Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of	0.75 (Refe	D.65 er GA d Clockw Yes Acryli RAL 50 Yes er GA c X 10 S	0.56 rawing rise c)000 drawing drawing Q MM O) SQ MM
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t Bearing size DE/ Type of lubrication	FLT) kg-m t FL/0.75FL/0.5FL ameters iion g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411) 32	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) Terminal box Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB)	0.75 (Refe	D.65 er GA d Clockw Yes Acryli RAL 50 Yes er GA c X 10 S SC X 10 Yes	0.56 rawing rise c)000 drawing drawing Q MM O) SQ MM
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearing size DE/ Type of lubricatio Accessories	FLT) kg-m t FL/0.75FL/0.5FL ameters iion g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411) 32	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) Terminal box Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of	0.75 (Refe	D.65 er GA d Clockw Yes Acryli RAL 50 Yes er GA c X 10 S SC X 10 Yes	0.56 rawing rise c)000 drawing drawing Q MM O) SQ MM
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/l Bearing size DE/ Type of lubrication Accessories RTDs - 3 numbe	FLT) kg-m t FL/0.75FL/0.5FL ameters tion g (TEFC/forced cooled/TESC) otor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE on	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411) 32	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) Terminal box Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals Arrow plate for direction of rotation Double compression glands (main cable)	0.75 (Refe	D.65 er GA d Clockw Yes Acryli RAL 50 Yes er GA c X 10 S SC X 10 Yes	0.56 rawing rise c)000 drawing drawing Q MM O) SQ MM
Full load torque (Efficiency in % a Mechanical pare Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller// Bearing size DE/ Type of lubrication Accessories RTDs - 3 numbe BTDs - 1 numbe	FLT) kg-m t FL/0.75FL/0.5FL ameters iton g (TEFC/forced cooled/TESC) otor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE on rss simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411) 32	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) Terminal box Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)	0.75 (Refe	D.65 er GA d Clockw Yes Acryli RAL 50 Yes er GA c X 10 S SC X 10 Yes	0.56 rawing rise c)000 drawing drawing Q MM O) SQ MM
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearing size DE/ Type of lubrication Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT	FLT) kg-m t FL/0.75FL/0.5FL ameters iton g (TEFC/forced cooled/TESC) otor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE on rs simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V C , 1 number per phase	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411) 32	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) Terminal box Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space	0.75 (Refe	D.65 er GA d Clockw Yes Acryli RAL 50 Yes er GA c X 10 S SC X 10 Yes	0.56 rawing rise c)000 drawing drawing Q MM O) SQ MM
Full load torque (Efficiency in % a Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearing size DE/ Type of lubrication Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Thermisters - PT	FLT) kg-m t FL/0.75FL/0.5FL ameters tion g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & bulley (OD x width) mm ball/angular contact) NDE on rs simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V C , 1 number per phase k for Accessories	81.8 81.8 79.8 B5 Single cylindrical IP 55 TEFC (IC 411) 32	Power factor at FL/0.75FL/0.5FL Mounting dimensions Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) Terminal box Terminal box location when viewed from DE Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals Arrow plate for direction of rotation Double compression glands (main cable) Double compression glands (Space heater/thermisters/RTDs)	0.75 (Refe	D.65 er GA d Clockw Yes Acryli RAL 50 Yes er GA c X 10 S SC X 10 Yes	0.56 rawing rise c)000 drawing drawing Q MM O) SQ MM

Project:	Contractor/Client		Date:	
Consultant	Package		Date.	