Manufacturer Type of motor Quantity	Bharat Bijlee Ltd.					
Quantity			Customer			
~ <i>•</i>	3 Phase Induction Motor		BBL Enquiry reference No			
	CUSTOMER TO FURNISH		Customer P.O.Number			
Application	CUSTOM	ER TO FURNISH	W.O. No. / SAP No.	1.1 /	6P	
Tag no. BBL type tef.			Output kW / pole Frame size	1.1 / 90		
Installation deta	rils		Applicable standards (latest edition)	50.	L	
Area classificatio	on (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			
	1.4.11.		Noise level: IS 12065	J		
Hazardous area details		N.A.	Supply conditions and permissible variations (grid Number of phases	Three		
Area classification GAS (Zone 1/Zone 2) 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				п. <u> </u>		
Method of startin	0	DOL	Starting current (%FLC)	40	-	
Load speed (rpm		CUSTOMER TO FURNISH	Starting torque (%FLT)	200		
Motor GD ² (kgm	/	0.0155	Pull out torque (%FLT)	25		
Load GD ² (kgm ²))	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 /	2/3	
Ū.	rated voltage (sec)	PLEASE FURNISH ALL ABOVE DETAILS				
Running Perfor	mance	IE2	Determent designation	Continuo	na (6 1)	
Efficiency class	emp rise by resistance (deg C)	50 / 70	Duty and designation CDF/Equivalent starts per hour/FI	Continuous (S1)		
Ambient temp./temp.rise by resistance (deg.C) Enclosure		TEFC (TOTALLY ENCLOSED FAN COOLED)	Insulation class / utilisation class on DOL	- F/B		
Full load current (FLC) amps.		2.72	Rotor type (Squirrel Cage/ Slip ring)	Squirrel Cage		
Full load speed (920	Rotor voltage/rotor current (RV/RA) (Volts/Amps)	Not app	0	
Full load torque ((FLT) kg-m	1.16	Stator/rotor time constant (min)	84/113		
	at FL/0.75FL/0.5FL	78.1 78.1 74.0	Power factor at FL/0.75FL/0.5FL	0.72 0.61	0.50	
Mechanical para Mounting	ameters	B3	Mounting dimensions	Refer GA	drouving	
			Direction of rotation viewed from DE		U	
Ũ		Single cylindrical		Clock		
Shaft extention	tion	Single cylindrical IP 55	Suitable for bidirectional rotation	Clock Ye		
Shaft extention Degree of protect	tion ng (TEFC/forced cooled/TESC)				s	
Shaft extention Degree of protect Method of coolin	ng (TEFC/forced cooled/TESC)	IP 55 TEFC (IC 411)	Suitable for bidirectional rotation Paint type	Ye	es lic	
Shaft extention Degree of protect Method of coolin	ng (TEFC/forced cooled/TESC)	IP 55	Suitable for bidirectional rotation Paint type Paint shade	Ye	es 1ic 5000	
Shaft extention Degree of protect Method of coolin Net weight of mo	ng (TEFC/forced cooled/TESC)	IP 55 TEFC (IC 411)	Suitable for bidirectional rotation Paint type	Ye Acry RAL :	es 1ic 5000	
Shaft extention Degree of protect Method of coolin Net weight of mc Bearings Coupling (Direct.	ng (TEFC/forced cooled/TESC) ptor (kgs.) //flexible/Belt &	IP 55 TEFC (IC 411) 17	Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) <i>Terminal box</i>	Ye Acry RAL S	es flic 5000 es	
Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox)	ng (TEFC/forced cooled/TESC) ptor (kgs.) /flexible/Belt &	IP 55 TEFC (IC 411) 17 Direct	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	Ye Acry RAL : Ye As per GA	ss lic 5000 ss . drawing	
Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox)	ng (TEFC/forced cooled/TESC) ptor (kgs.) //flexible/Belt &	IP 55 TEFC (IC 411) 17	Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) <i>Terminal box</i>	Ye Acry RAL : Ye As per GA As per GA	s lic 5000 ss . drawing . drawing	
Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p	ng (TEFC/forced cooled/TESC) ptor (kgs.) /flexible/Belt &	IP 55 TEFC (IC 411) 17 Direct	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	Ye Acry RAL : Ye As per GA	s lic 5000 ss . drawing . drawing SQ MM Ol	
Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t	ng (TEFC/forced cooled/TESC) otor (kgs.) //flexible/Belt & pulley (OD x width) mm ball/angular contact)	IP 55 TEFC (IC 411) 17 Direct - Ball /Ball	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 Direction of cable entry	Yee Acry RAL 5 Yee As per GA As per GA IR X 3C X 4	ss flic 5000 ss drawing sq mm o 4 SQ MM O	
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	ng (TEFC/forced cooled/TESC) otor (kgs.) //flexible/Belt & pulley (OD x width) mm ball/angular contact) /NDE	IP 55 TEFC (IC 411) 17 Direct - Ball /Ball	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 Direction of cable entry Cable size and type(Aluminium)	Yee Acry RAL 2 Yee As per GA As per GA 1R X 3C X 4 2R X 3C X	ss drawing sq MM Oi 4 SQ MM Oi ss	
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 lubricatio Accessories	ng (TEFC/forced cooled/TESC) otor (kgs.) //flexible/Belt & pulley (OD x width) mm ball/angular contact) /NDE on	IP 55 TEFC (IC 411) 17 Direct - Ball /Ball 6205 2Z C3 / 6205 2Z C3	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 Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals	Yee Acry RAL : Ye As per GA IR X 3C X 4 2R X 3C X Ye	ss drawing sq MM Oi 4 SQ MM Oi ss	
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 Accessories RTDs - 3 number	ng (TEFC/forced cooled/TESC) otor (kgs.) //flexible/Belt & pulley (OD x width) mm ball/angular contact) /NDE on rrs simplex (w/o controller)	IP 55 TEFC (IC 411) 17 Direct - Ball /Ball 6205 2Z C3 / 6205 2Z C3	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 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	Yee Acry RAL : Ye As per GA IR X 3C X 4 2R X 3C X Ye	ss drawing sq MM O 4 SQ MM ss	
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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 Accessories RTDs - 3 number Space heaters - s Thermisters - PT	ng (TEFC/forced cooled/TESC) otor (kgs.) //flexible/Belt & pulley (OD x width) mm ball/angular contact) /NDE on rrs simplex (w/o controller) rr per bearing (w/o controller) ingle phase 50z, 230V 'C , 1 number per phase x for Accessories	IP 55 TEFC (IC 411) 17 Direct - Ball /Ball 6205 2Z C3 / 6205 2Z C3	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 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)	Yee Acry RAL : Ye As per GA IR X 3C X 4 2R X 3C X Ye	ss drawing sq MM Oi 4 SQ MM Oi ss	

Project:	Contractor/Client		Date:	
Consultant	Package			