| Manufacturer Type of motor Quantity Application | Bharat Bijlee Ltd. | | | 1 | | |
|---|--|--|---|--|--|--|
| Quantity | | | Customer | | | |
| ~ <i>i</i> | 3 Phase Induction Motor | | BBL Enquiry reference No | | | |
| Application | | | Customer P.O.Number | | | |
| - | CUSTOM | ER TO FURNISH | W.O. No. / SAP No. | | | |
| Tag no. | | | Output kW / pole | 2.2 | / 112N | 6P |
| BBL type tef. Installation deta | nils | | Frame size Applicable standards (latest edition) | | 112N | 4 |
| | | In description for such | | | | |
| 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. | 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 | 2 | | | | | |
| Starting perform | | | 7 | | | |
| Method of startir | 0 | DOL | 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) |) | 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.) provided Load GD2 = Motor GD2 | | 2/3 | 3 |
| č | rated voltage (sec) | PLEASE FURNISH ALL ABOVE DETAILS | | | | |
| Running Perform | mance | T 2 | ~ | 2 | | (01) |
| Efficiency class | | IE2 50 / 70 | Duty and designation | Con | ntinuou | s (S1) |
| Enclosure | emp.rise by resistance (deg.C) | 50 / 70 TEFC (TOTALLY ENCLOSED | CDF/Equivalent starts per hour/FI Insulation class / utilisation class on DOL | - F/B | | |
| | | FAN COOLED) | | | | |
| Full load current | | 5 | Rotor type (Squirrel Cage/ Slip ring) | Squirrel Cage | | 0 |
| Full load speed (| | 955 | Rotor voltage/rotor current (RV/RA) (Volts/Amps) | No | ot appli | |
| Full load torque (| | 2.24 81.8 81.8 79.8 | Stator/rotor time constant (min) | 0.75 (| #N/A 0.65 | |
| | at 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 |
| | ameters | | | | | |
| Mechanical pare | ameters | B3 | Mounting dimensions | Refe | er GA d | Irawing |
| <i>Mechanical pare</i> Mounting | ameters | B3 Single cylindrical | Mounting dimensions Direction of rotation viewed from DE | | er GA d Clockw | U |
| Mechanical para Mounting Shaft extention | | | | | | vise |
| Mechanical pare Mounting Shaft extention Degree of protect | | Single cylindrical | Direction of rotation viewed from DE | | Clockw | vise |
| Mechanical pare Mounting Shaft extention Degree of protect | tion ng (TEFC/forced cooled/TESC) | Single cylindrical IP 55 | Direction of rotation viewed from DE Suitable for bidirectional rotation | (| Clockw Yes | vise |
| Mechanical para Mounting Shaft extention Degree of protect Method of coolin | tion ng (TEFC/forced cooled/TESC) | Single cylindrical IP 55 TEFC (IC 411) | Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type | (| Clockw Yes Acryli | vise ic 000 |
| Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings | tion ng (TEFC/forced cooled/TESC) otor (kgs.) | Single cylindrical IP 55 TEFC (IC 411) | Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade | (| Clockw Yes Acryli RAL 50 | vise ic 000 |
| Mechanical pare Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct | tion ng (TEFC/forced cooled/TESC) otor (kgs.) /flexible/Belt & | Single cylindrical IP 55 TEFC (IC 411) | Direction of rotation viewed from DE Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) | | Clockw Yes Acryli RAL 5(Yes | vise ic 000 |
| Mechanical pare Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) | tion ng (TEFC/forced cooled/TESC) otor (kgs.) /flexible/Belt & | Single cylindrical IP 55 TEFC (IC 411) 32 | 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 | I I As pe | Clockw Yes Acryli RAL 50 Yes er GA c | vise ic D00 drawing |
| Mechanical pare Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) | tion ng (TEFC/forced cooled/TESC) otor (kgs.) /flexible/Belt & | Single cylindrical IP 55 TEFC (IC 411) 32 Direct | 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> | As po | Clockw Yes Acryli RAL 50 Yes er GA c | vise ic D00 drawing drawing |
| Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p | tion ng (TEFC/forced cooled/TESC) otor (kgs.) /flexible/Belt & | Single cylindrical IP 55 TEFC (IC 411) 32 | 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 | As per As | Clockw Yes Acryli RAL 50 Yes er GA c er GA c X 10 S | vise ic D00 drawing drawing |
| Mechanical para Mounting Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p | tion ng (TEFC/forced cooled/TESC) otor (kgs.) /flexible/Belt & pulley (OD x width) mm ball/angular contact) | Single cylindrical IP 55 TEFC (IC 411) 32 Direct - Ball /Ball | 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 Direction of cable entry | As per As | Clockw Yes Acryli RAL 50 Yes er GA c er GA c X 10 S | /ise ic 0000 drawing drawing GQ MM O 0 SQ MM |
| 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/l Bearing size DE/ | tion ng (TEFC/forced cooled/TESC) otor (kgs.) //flexible/Belt & pulley (OD x width) mm ball/angular contact) /NDE | Single cylindrical IP 55 TEFC (IC 411) 32 Direct - Ball /Ball | 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 Direction of cable entry Cable size and type(Aluminium) | As pe As pe 1R X 3C 2R X 3 | Clockw Yes Acryli RAL 50 Yes er GA c er GA c X 10 S 3C X 10 | drawing drawing drawing drawing drawing drawing drawing drawing |
| Mechanical pare 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 | tion ng (TEFC/forced cooled/TESC) otor (kgs.) //flexible/Belt & pulley (OD x width) mm ball/angular contact) /NDE on | Single cylindrical IP 55 TEFC (IC 411) 32 Direct - Ball /Ball 6206 2Z C3 / 6205 2Z C3 | 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 Direction of cable entry Cable size and type(Aluminium) Earthing provision (one terminal in TB) No of phases/Winding connection/number of terminals | As pe As pe 1R X 3C 2R X 3 | Clockw Yes Acryli RAL 5(Yes er GA c er GA c X 10 S 3C X 10 Yes | vise 000 drawing drawing SQ MM OI 0 SQ MM |
| 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/l Bearing size DE/ Type of lubrication Accessories RTDs - 3 numbe | tion ng (TEFC/forced cooled/TESC) otor (kgs.) //flexible/Belt & pulley (OD x width) mm ball/angular contact) /NDE on rrs simplex (w/o controller) | Single cylindrical IP 55 TEFC (IC 411) 32 Direct - Ball /Ball 6206 2Z C3 / 6205 2Z C3 | 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 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 | As pe As pe 1R X 3C 2R X 3 | Clockw Yes Acryli RAL 5(Yes er GA c er GA c X 10 S 3C X 10 Yes | drawing drawing drawing drawing drawing drawing drawing drawing |
| 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 Bearing size DE/ Type of lubrication Accessories RTDs - 3 numbe BTDs - 1 numbe | tion 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) | Single cylindrical IP 55 TEFC (IC 411) 32 Direct - Ball /Ball 6206 2Z C3 / 6205 2Z C3 | 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 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 | As pe As pe 1R X 3C 2R X 3 | Clockw Yes Acryli RAL 5(Yes er GA c er GA c X 10 S 3C X 10 Yes | drawing drawing drawing drawing drawing drawing drawing |
| 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 Bearing size DE/ Type of lubrication Accessories RTDs - 3 numbe BTDs - 1 numbe | tion ng (TEFC/forced cooled/TESC) otor (kgs.) //flexible/Belt & pulley (OD x width) mm ball/angular contact) /NDE on rrs simplex (w/o controller) | Single cylindrical IP 55 TEFC (IC 411) 32 Direct - Ball /Ball 6206 2Z C3 / 6205 2Z C3 | 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 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) | As pe As pe 1R X 3C 2R X 3 | Clockw Yes Acryli RAL 5(Yes er GA c er GA c X 10 S 3C X 10 Yes | drawing drawing drawing drawing drawing drawing drawing drawing |
| Mechanical pare 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 Additional T-Boo | tion ng (TEFC/forced cooled/TESC) otor (kgs.) //flexible/Belt & pulley (OD x width) mm ball/angular contact) /NDE on rrs simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V 'C , 1 number per phase x for Accessories | Single cylindrical IP 55 TEFC (IC 411) 32 Direct - Ball /Ball 6206 2Z C3 / 6205 2Z C3 | 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 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) | As pe As pe 1R X 3C 2R X 3 | Clockw Yes Acryli RAL 5(Yes er GA c er GA c X 10 S 3C X 10 Yes | vise 000 drawing drawing SQ MM OI 0 SQ MM |
| 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 Bearing size DE/ Type of lubrication Accessories RTDs - 3 numbe BTDs - 1 numbe Space heaters - s Fhermisters - PT | tion ng (TEFC/forced cooled/TESC) otor (kgs.) //flexible/Belt & pulley (OD x width) mm ball/angular contact) /NDE on rrs simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V 'C , 1 number per phase x for Accessories | Single cylindrical IP 55 TEFC (IC 411) 32 Direct - Ball /Ball 6206 2Z C3 / 6205 2Z C3 | 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 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) | As pe As pe 1R X 3C 2R X 3 | Clockw Yes Acryli RAL 5(Yes er GA c er GA c X 10 S 3C X 10 Yes | vise 000 drawing drawing SQ MM OI 0 SQ MM |

| Project: | Contractor/Client | т | Date: | |
|------------|-------------------|---|-------|--|
| Consultant | Package | L | Date. | |