| Manufacturer Type of motor | | | | | |
|--|---|---|---|---|--|
| Type of motor | Bharat Bijlee Ltd. | | Customer | | |
| pe or 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 | 110 / 2P | |
| BBL type tef. | | | Frame size | 315S | |
| Installation deta | ils | | Applicable standards (latest edition) | | |
| Area classification (Safe / Hazardous) | | Industrial safe area | Performance: IS/IEC 60034-1 Maintenance IS:900 | | |
| Location: indoor/outdoor/deck Altitude (meters) | | 1000 or less | Dimensions: IS 1231/IS 2223/IS:8223 Vibrations: IS 12075 Noise level: IS 12065 | | |
| Hazardous area | details | L | Supply conditions and permissible variations (grid | l supply) | |
| Area classification GAS (Zone 1/Zone 2) | | N.A. | Number of phases | Three | |
| 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 author | rity for hazardous area | Not Applicable | | | |
| Electrical param Starting perform | nance | | | | |
| Method of startin | 0 | DOL | Starting current (%FLC) | 700 | |
| Load speed (rpm | | CUSTOMER TO FURNISH | Starting torque (%FLT) | 220 | |
| Motor GD ² (kgm | / | 5 | Pull out torque (%FLT) | 250 | |
| Load GD ² (kgm ²) | | CUSTOMER TO FURNISH | Locked rotor withstand time (hot/cold) (sec) | 15 / 30 | |
| Load torque-speed curve | | Parabolic TS curve | Number of consecutive starts (hot/cold) (nos.) provided Load GD2 = Motor GD2 | 2/3 | |
| | ated voltage (sec) | PLEASE FURNISH ALL ABOVE DETAILS | | | |
| Running Perform | nance | | | ~ · | |
| Efficiency class | · · · · · · | IE2 | Duty and designation | Continuous (S1) | |
| Ambient temp./temp.rise by resistance (deg.C) Enclosure | | 50 / 70 TEFC (TOTALLY ENCLOSED | CDF/Equivalent starts per hour/FI Insulation class / utilisation class on DOL | - F/B | |
| | | FAN COOLED) | | | |
| Full load current (FLC) amps. Full load speed (rpm) | | 180 2982 | Rotor type (Squirrel Cage/ Slip ring) Rotor voltage/rotor current (RV/RA) (Volts/Amps) | Squirrel Cage Not applicable | |
| Full load torque (| | 35.9 | Stator/rotor time constant (min) | 108/146 | |
| | t FL/0.75FL/0.5FL | 94.3 94.1 91.5 | Power factor at FL/0.75FL/0.5FL | 0.90 0.86 0.80 | |
| Mechanical para | imeters | В5 | Mounting dimensions | Refer GA drawing | |
| Mounting | | | | Kelei OA urawing | |
| Ũ | | Single cylindrical | Direction of rotation viewed from DF | Clockwise | |
| Shaft extention | ion | Single cylindrical IP 55 | Direction of rotation viewed from DE Suitable for bidirectional rotation | Clockwise Yes | |
| | g (TEFC/forced cooled/TESC) | IP 55 TEFC (IC 411) | Suitable for bidirectional rotation Paint type | Yes Acrylic | |
| Shaft extention Degree of protect Method of coolin | g (TEFC/forced cooled/TESC) | IP 55 | Suitable for bidirectional rotation Paint type Paint shade | Yes Acrylic RAL 5000 | |
| Shaft extention Degree of protect Method of coolin Net weight of mo | g (TEFC/forced cooled/TESC) | IP 55 TEFC (IC 411) | Suitable for bidirectional rotation Paint type | Yes Acrylic | |
| Shaft extention Degree of protect Method of coolin Net weight of mo Bearings | g (TEFC/forced cooled/TESC) tor (kgs.) | IP 55 TEFC (IC 411) 898 | Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) <i>Terminal box</i> | Yes Acrylic RAL 5000 Yes | |
| Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) | g (TEFC/forced cooled/TESC) htor (kgs.) /flexible/Belt & | IP 55 TEFC (IC 411) | Suitable for bidirectional rotation Paint type Paint shade Earthing provision (two terminals on stator body) Terminal box Terminal box location when viewed from DE | Yes Acrylic RAL 5000 Yes As per GA drawing | |
| Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct. Pulley/Gearbox) Dimenssions of p | g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & pulley (OD x width) mm | IP 55 TEFC (IC 411) 898 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 Direction of cable entry | Yes Acrylic RAL 5000 Yes As per GA drawing As per GA drawing | |
| Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Pulley/Gearbox) Dimenssions of p Bearings (roller/t | g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) | IP 55 TEFC (IC 411) 898 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) | Yes Acrylic RAL 5000 Yes As per GA drawing As per GA drawing 2R X 3C X 185 SQ MM | |
| 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/ | g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE | IP 55 TEFC (IC 411) 898 Direct - Ball /Ball 6319 C3 / 6319 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) | Yes Acrylic RAL 5000 Yes As per GA drawing As per GA drawing 2R X 3C X 185 SQ MM Yes | |
| 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 | g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE | IP 55 TEFC (IC 411) 898 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) | Yes Acrylic RAL 5000 Yes As per GA drawing As per GA drawing 2R X 3C X 185 SQ MM | |
| Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct. Pulley/Gearbox) Dimenssions of p Bearings (roller/b Bearing size DE/ Fype of lubricatio Accessories | g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE | IP 55 TEFC (IC 411) 898 Direct - Ball /Ball 6319 C3 / 6319 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 | Yes Acrylic RAL 5000 Yes As per GA drawing As per GA drawing 2R X 3C X 185 SQ MM Yes | |
| 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 number | g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE on | IP 55 TEFC (IC 411) 898 Direct - Ball /Ball 6319 C3 / 6319 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 | Yes Acrylic RAL 5000 Yes As per GA drawing As per GA drawing 2R X 3C X 185 SQ MM Yes | |
| 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 BTDs - 1 number | g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & pulley (OD x width) mm pall/angular contact) NDE on rs simplex (w/o controller) | IP 55 TEFC (IC 411) 898 Direct - Ball /Ball 6319 C3 / 6319 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 | Yes Acrylic RAL 5000 Yes As per GA drawing As per GA drawing 2R X 3C X 185 SQ MM Yes | |
| 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 RTDs - 3 number Space heaters - si Thermisters - PTo | g (TEFC/forced cooled/TESC) tor (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 | IP 55 TEFC (IC 411) 898 Direct - Ball /Ball 6319 C3 / 6319 C3 | 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 | Yes Acrylic RAL 5000 Yes As per GA drawing As per GA drawing 2R X 3C X 185 SQ MM Yes | |
| Shaft extention Degree of protect Method of coolin Net weight of mo Bearings Coupling (Direct Julley/Gearbox) Dimenssions of p Bearing size DE/ Dipe of lubrication Accessories RTDs - 3 number 37Ds - 1 number Space heaters - si | g (TEFC/forced cooled/TESC) tor (kgs.) /flexible/Belt & vulley (OD x width) mm vall/angular contact) NDE on rss simplex (w/o controller) r per bearing (w/o controller) ingle phase 50z, 230V C , 1 number per phase a for Accessories | IP 55 TEFC (IC 411) 898 Direct - Ball /Ball 6319 C3 / 6319 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) | Yes Acrylic RAL 5000 Yes As per GA drawing As per GA drawing 2R X 3C X 185 SQ MM Yes | |

| Project: | Contractor/Client | | Date: | |
|------------|-------------------|--|-------|--|
| Consultant | Package | | | |
| Consultant | i ucnuge | | | |