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| Manufacturer | Bharat Bijlee Ltd. | Customer | |
| Type of motor | 3 Phase Induction Motor | BBL Enquiry reference No | |
| Quantity | | Customer P.O.Number | |
| Application | CUSTOMER TO FURNISH | W.O. No. / SAP No. | |
| Tag no. | | Output kW / pole | 0.55 / 2P |
| BBL type tef. | 2J0802B3 | Frame size | MJ80 |
| Installation details | | Applicable standards (latest edition) | |
| Area classification (Safe / Hazardous) | Hazardous | Performance: IS/IEC 60034-1 Maintenance IS:900 | FLP Motors: IS/IEC 60079-1 |
| 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 supply) | |
| Area classification GAS (Zone 1/Zone 2) | ZONE I | Number of phases | Three |
| Gas group | IIA, IIB | Voltage (Volts) and permissible variation | 415 ±10% |
| Temp.class | T6 | Frequency (Hz) and permissible variation | 50 ±5% |
| Type of Explosion protection (FLP/Type 'e'/Type 'n') | Ex d | Combined variation (absolute sum) | ±10% |
| Approving authority for hazardous area | If Coal Mine application then DGMS else PESO | | |
| Electrical parameters | | | |
| Starting performance | | | |
| Method of starting | DOL | Starting current (%FLC) | 600 |
| Load speed (rpm) | CUSTOMER TO FURNISH | Starting torque (%FLT) | 270 |
| Motor GD ² (kgm ²) | 0.0026 | Pull out torque (%FLT) | 300 |
| 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 |
| Starting time at rated voltage (sec) | PLEASE FURNISH ALL ABOVE DETAILS | | |
| Running Performance | | | |
| Efficiency class | IE2 | Duty and designation | Continuous (S1) |
| Ambient temp./temp.rise by resistance (deg.C) | 45 / 75 | CDF/Equivalent starts per hour/FI | - |
| Enclosure | TEFC (TOTALLY ENCLOSED FAN COOLED) | Insulation class / utilisation class on DOL | F/B |
| Full load current (FLC) amps. | 1.26 | Rotor type (Squirrel Cage/ Slip ring) | Squirrel Cage |
| Full load speed (rpm) | 2860 | Rotor voltage/rotor current (RV/RA) (Volts/Amps) | Not applicable |
| Full load torque (FLT) kg-m | 0.19 | Stator/rotor time constant (min) | 90/122 |
| Efficiency in % at FL/0.75FL/0.5FL | 74.1 74.1 72.0 | Power factor at FL/0.75FL/0.5FL | 0.82 0.74 0.60 |
| Mechanical parameters | | | |
| Mounting | B3 | Mounting dimensions | Refer GA drawing |
| Shaft extention | Single cylindrical | Direction of rotation viewed from DE | Clockwise |
| Degree of protection | IP 55 | Suitable for bidirectional rotation | Yes |
| Method of cooling (TEFC/forced cooled/TEFC) | TEFC (IC 411) | Paint type | Acid Alkali Proof |
| Net weight of motor (kgs.) | 31 | Paint shade | 632 as per IS 5 |
| | | Earthing provision (two terminals on stator body) | Yes |
| Bearings | | Terminal box | |
| Coupling (Direct/flexible/Belt & Pulley/Gearbox) | Direct | Terminal box location when viewed from DE | As per GA drawing |
| Dimenssions of pulley (OD x width) mm | - | Direction of cable entry | As per GA drawing |
| Bearings (roller/ball/angular contact) | Ball /Ball | Cable size and type(Aluminium) | 1R X 3C X 4 SQ MM |
| Bearing size DE/NDE | 6204 2Z C3 / 6204 2Z C3 | Earthing provision (one terminal in TB) | Yes |
| Type of lubrication | LITHIUM SOAP BASE GREASE | No of phases/Winding connection/number of terminals | 3 / STAR / 3 |
| Accessories | | | |
| RTDs - 3 numbers simplex (w/o controller) | | Arrow plate for direction of rotation | |
| BTDs - 1 number per bearing (w/o controller) | | Double compression glands (main cable) | |
| Space heaters - single phase 50z, 230V | | Double compression glands (Space heater/thermistors/RTDs) | |
| Thermistors - PTC , 1 number per phase | | Brake (Type/voltage/torque) | |
| Additional T-Box for Accessories | | | |
| Additional nameplate | | | |
| Notes: | | | |
| 1)All performance values are subject to IS/IEC 60034-1 tolerances, unless otherwise specified. | | | |
| 2)Performance values are at rated voltage and rated frequency condition and for DOL starting condition. | | | |
| 3)Motor GD ² = Load GD ² assumed wherever not mentioned. | | | |
| 4)Where starting time is more than 10 seconds, provision of heavy duty relays is mandatory. | | | |
| 5)Kilowatt rating is mandatory and HP is approximate. | | | |
| 6) Accessories provided are marked as "YES" | | | |
| | | | Prepared by |
| | | | Approved by |
| | | | Revision |
| Project: | | Contractor/Client | Date: |
| Consultant | | Package | |

