|  | Bijlee   | Data sheet   | jor motors   |  |         |
|--|--|--|--|--|---------|
| Manufacturer   | Bharat Bijlee Ltd.   |  | Customer   |  |         |
| Type of motor 3 Phase Induction Motor  |  |  | BBL Enquiry reference No   |  |         |
| Quantity   | CUSTOMER TO FURNISH  |  | Customer P.O.Number  |  |         |
| Application  | CUSTOM   | SR TO FURNISH  | W.O. No. / SAP No.   | 0.75 /                                     | 0D      |
| Tag no.<br>BBL type tef.   |  |  | Output kW / pole<br>Frame size   | 0.75 /                                     | 8P      |
| Installation deta  | rils   |  | Applicable standards (latest edition)  | 100  | 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<br>Noise level: IS 12065  |  |         |
| Hazardous area   | details  | L  | Supply conditions and permissible variations (grid   | l sunnly)                                  |         |
| 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<br>'e'/Type 'n')  |  | N.A.   | Combined variation (absolute sum)  | ±10  | %       |
| Approving autho  | ority for hazardous area   | Not Applicable   |  |  |         |
| Electrical paran   | neters   |  |  |  |         |
| Starting perform   |  |  |  |  |         |
| Method of startir  | 0  | DOL  | Starting current (%FLC)  | 300  |         |
| Load speed (rpm  |  | CUSTOMER TO FURNISH  | Starting torque (%FLT)   | 190  |         |
| Motor GD <sup>2</sup> (kgm   | /  | 0.022  | Pull out torque (%FLT)   | 230  |         |
| Load GD <sup>2</sup> (kgm <sup>2</sup> )   | )  | CUSTOMER TO FURNISH  | Locked rotor withstand time (hot/cold) (sec)   | 30 /                                       | 60      |
| Load torque-speed curve  |  | Parabolic TS curve   | Number of consecutive starts (hot/cold) (nos.)<br>provided Load GD2 = Motor GD2            | 2/3  |         |
| U U  | rated voltage (sec)  | PLEASE FURNISH ALL ABOVE<br>DETAILS  |  |  |         |
| Running Perform  | mance  |  |  | ~ .  | (21)    |
| Efficiency class   | ····· ···· ···· ······ (1 C)   | IE2<br>50 / 70   | Duty and designation   | Continuous (S1)                            |         |
| Ambient temp./temp.rise by resistance (deg.C)<br>Enclosure   |  | TEFC (TOTALLY ENCLOSED   | CDF/Equivalent starts per hour/FI<br>Insulation class / utilisation class on DOL           | -<br>F/B                                   |         |
| Full load current  | (ELC) among  | FAN COOLED)<br>2.25  | Deter type (Sovienal Case/Slip ring)   | Souirrol                                   | Caga    |
| Full load speed (  |  | 685  | Rotor type (Squirrel Cage/ Slip ring )<br>Rotor voltage/rotor current (RV/RA) (Volts/Amps) | Squirrel Cage<br>Not applicable<br>108/146 |         |
| Full load torque (   |  | 1.07   | Stator/rotor time constant (min)   |  |         |
|  | at FL/0.75FL/0.5FL   | 66.2 66.2 66.2   | Power factor at FL/0.75FL/0.5FL  | 0.70 0.61                                  | 0.50    |
| Mechanical para  | ameters  |  | [  |  |         |
| Mounting   |  | B3   | Mounting dimensions  | Refer GA                                   | Ű       |
| Shaft extention Degree of protection   |  | Single cylindrical<br>IP 55  | Direction of rotation viewed from DE<br>Suitable for bidirectional rotation                | Clockwise<br>Yes                           |         |
|  |  |  |  | res  |         |
| Method of cooling (TEFC/forced cooled/TESC)  |  | TEFC (IC 411)  | Paint type   | Acrylic                                    |         |
| Net weight of motor (kgs.)   |  | 18   | Paint shade  | RAL 5000                                   |         |
|  |  |  | Earthing provision (two terminals on stator body)  | Ye   | s       |
| Bearings   |  |  | Terminal box   | 1  |         |
| Coupling (Direct<br>Pulley/Gearbox)  |  | Direct   | Terminal box location when viewed from DE  | As per GA                                  | drawing |
|  | pulley (OD x width) mm   | -  | Direction of cable entry   | As per GA                                  | drawing |
|  | • • •  |  |  | 1R X 3C X 10                               |         |
| Bearings (roller/ball/angular contact)   |  | Ball /Ball   | Cable size and type(Aluminium)   | 2R X 3C X 6 SQ MM                          |         |
| Bearing size DE/   | NDE  | 6206 2Z C: / 6205 2Z C3  | Earthing provision (one terminal in TB)  | Ye   | s       |
| Type of lubrication  |  | LITHIUM SOAP BASE GREASE   | EASE No of phases/Winding connection/number of 3   |  | R / 6   |
|  |  |  | terminals  |  | -       |
| Accessories<br>RTDs - 3 numbe  | ers simplex (w/o controller)   |  | Arrow plate for direction of rotation  |  |         |
|  | r per bearing (w/o controller)   |  | Double compression glands (main cable)   |  |         |
| Space heaters - single phase 50z, 230V   |  |  | Double compression glands (Space<br>heater/thermisters/RTDs)                               |  |         |
| Thermisters - PTC, 1 number per phase  |  |  | Brake (Type/voltage/torque)  |  |         |
| Additional T-Box for Accessories   |  |  | (-)r   |  |         |
| Additional T-Box   |  |  |  |  |         |
|  |  |  |  |  |         |
| Additional name<br>Notes:  |  |  | pecified.  |  |         |
| Additional name<br>Notes:<br>1)All performanc  |  | 50034-1 tolerances, unless otherwise s   |  |  |         |
| Additional name<br>Notes:<br>1)All performanc<br>2)Performance v   | alues are at rated voltage and ra  | ated frequency condition and for DOL   |  |  |         |
| Additional name<br>Notes:<br>1)All performance<br>2)Performance v<br>3)Motor GD <sup>2</sup> = I   | alues are at rated voltage and rated $GD^2$ assumed wherever no  | ated frequency condition and for DOL of mentioned.   | starting condition.  |  |         |
| Additional name;<br>Notes:<br>1)All performance<br>2)Performance v:<br>3)Motor GD <sup>2</sup> = I<br>4)Where starting                           | alues are at rated voltage and ra<br>Load GD <sup>2</sup> assumed wherever no<br>g time is more than 10 seconds,                           | ated frequency condition and for DOL<br>of mentioned.<br>provision of heavy duty relays is man | starting condition.  |  |         |
| Additional name<br>Notes:<br>1)All performance<br>2)Performance v<br>3)Motor GD <sup>2</sup> = I<br>4)Where starting<br>5)Kilowatt rating        | alues are at rated voltage and ra<br>Load $GD^2$ assumed wherever no<br>g time is more than 10 seconds,<br>g is mandatory and HP is approx | ated frequency condition and for DOL<br>of mentioned.<br>provision of heavy duty relays is man | starting condition.  |  |         |
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| Additional name<br>Notes:<br>1)All performance<br>2)Performance v<br>3)Motor GD <sup>2</sup> = I<br>4)Where starting<br>5)Kilowatt rating        | alues are at rated voltage and ra<br>Load $GD^2$ assumed wherever no<br>g time is more than 10 seconds,<br>g is mandatory and HP is approx | ated frequency condition and for DOL<br>of mentioned.<br>provision of heavy duty relays is man | starting condition.  | Prepared by<br>Approved by<br>Revison      |         |

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