

| HIGEN  |           | INDUCTION MOTOR<br>DATA SHEET  |  |   | 7.5 kW - 4 P |  |              |      |
|--|-----------|--|--|---|--------------|--|--------------|------|
| MODEL: I10HU1GHSC  |           | CUSTOMER :   |  |   | REV. NO :    |  |              |      |
| APPLICATION:   |           | PROJECT NAME:  |  |   | QUANTITY :   |  |              |      |
| GENERAL DATA   |           |  |  | PERFORMANCE DATA                                  |              |  |              |      |
| FRAME NO.  |           | 132M   |  | OUTPUT  |              | 7.5 kW   |              |      |
| ENCLOSURE  |           | <input type="checkbox"/> DRIP PROOF  |  | POLES   |              | 4 POLES  |              |      |
|  |           | <input checked="" type="checkbox"/> TOTALLY ENCLOSED   |  | ROTOR TYPE  |              | SQUIRREL CAGE  |              |      |
|  |           | <input type="checkbox"/> Increased Safety Exp.-proof   |  | STARTING METHOD                                   |              | <input checked="" type="checkbox"/> D.O.L <input checked="" type="checkbox"/> Y- |              |      |
| PROTECTION IP 54   |           | <input type="checkbox"/> REACTOR ( %TAP) <input type="checkbox"/> V.V.V.F  |  |   |              |  |              |      |
| METHODS OF COOLING <input type="checkbox"/> SC <input checked="" type="checkbox"/> FC <input type="checkbox"/> |           | <input type="checkbox"/> SOFT-STARTER  |  |   |              |  |              |      |
| FREQUENCY  |           | 60 Hz  |  | RATED VOLTAGE                                     |              | 380 V  | V            | V    |
| PHASE  |           | 3 PHASE  |  | CURRENT   |              |  |              |      |
| SERVICE FACTOR   |           | 1.15   |  | NO LOAD   |              | A  | A            | A    |
| INSULATION CLASS   |           | F CLASS  |  | FULL LOAD   |              | 15.1 A   | A            | A    |
| TEMP. RISE AT FULL LOAD (at S.F 1.0)   |           |  |  | STARTING  |              | 98.4 A   | A            | A    |
| RES. METHOD  |           | 105  |  | EFFICIENCY  |              |  |              |      |
| THERMO. METHOD   |           |  |  | AT 1/2 LOAD                                       |              | %  |              |      |
| LOCATION <input checked="" type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR                           |           |  |  | AT 3/4 LOAD                                       |              | %  |              |      |
| ALTITUDE   |           | 1000 m   |  | AT FULL LOAD                                      |              | 87.5   | %            |      |
| HUMIDITY   |           | 80 %   |  | POWER FACTOR                                      |              |  |              |      |
| AMBIENT TEMPERATURE  |           | -10~40   |  | AT 1/2 LOAD                                       |              | %  |              |      |
| RATING   |           | <input checked="" type="checkbox"/> CONT. <input type="checkbox"/> %ED   |  | AT 3/4 LOAD                                       |              | %  |              |      |
| NEMA DESIGN  |           | B  |  | AT FULL LOAD                                      |              | 86.0   | %            |      |
| MOUNTING   |           | <input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3B5 |  | SPEED (AT FULL LOAD)                              |              | 1730   | rpm          |      |
| BEARING  | TYPE      | BALL   |  | TORQUE  |              |  |              |      |
|  | DEIN-DE   | 6208ZZ/6206ZZ  |  | FULL LOAD   |              | 4.2  | kg-m         | 100% |
|  | LUBRICANT | GREASE   |  | LOCKED ROTOR                                      |              | 6.7  | kg-m         | 160% |
| COUPLING METHOD  |           | <input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> V-BELT   |  | BREAKDOWN   |              | 8.4  | kg-m         | 200% |
| SHAFT  |           |  |  | NOISE LEVEL                                       |              | 77.0   | dB(A)        |      |
| EXTENSION  |           | SINGLE   |  | VIBRATION   |              | 15.0   | μm           |      |
| EXTERNAL THRUST  |           |  |  | ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT        |              |  |              |      |
| TERMINAL BOX   |           |  |  | (AT DIRECT ON-LINE)                               |              | 29.3   | kg-m²        |      |
| MAIN   |           | <input type="checkbox"/> STEEL <input type="checkbox"/> AL <input checked="" type="checkbox"/> CAST                          |  | Motor GD²   |              | 0.1060   | kg-m²        |      |
| AUX.   |           | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO  |  | MOTOR APPROX. WEIGHT                              |              | 78.0   | kg           |      |
| BOX LOCATION   |           | LEFT (Viewed from Drive end)   |  | PAINTING  |              | MUNSELL NO.  | 7.1B 4.0/0.9 |      |
| APPLICATION STANDARDS  |           | IEC, KS  |  | THICKNESS   |              | <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/>            | μm           |      |
| ACCESSORIES (OPTIONAL)   |           |  |  | SUBMITTAL DRAWINGS                                |              |  |              |      |
| SUN COVER  |           |  |  |   |              |  |              |      |
|  |           |  |  |   |              |  |              |      |
|  |           |  |  |   |              |  |              |      |
|  |           |  |  |   |              |  |              |      |
|  |           |  |  |   |              |  |              |      |
|  |           |  |  |   |              |  |              |      |
|  |           |  |  |   |              |  |              |      |
|  |           |  |  |   |              |  |              |      |
|  |           |  |  |   |              |  |              |      |
|  |           |  |  |   |              |  |              |      |
| NOTE   |           |  |  | REMARKS   |              |  |              |      |
| 1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARDS.          |           |  |  | 1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE. |              |  |              |      |
| 2. OTHERS NOT MENTIONED IN THIS SHEET SHALL BE IN ACCORDANCE WITH OTIS STANDARD.                               |           |  |  |   |              |  |              |      |
| FC : FAN COOLED  |           | SC : SELF COOLED   |  | DATE  | PREPARED     | CHECKED  | APPROVED     |      |
|  |           |  |  | 2007.09.10  | M.S.PARK     | J.H.JO   | H.J.KIM      |      |