

| HIGEN                                                                                                                                                  |  | INDUCTION MOTOR<br>DATA SHEET                                                        |                                                                                                    | 55 kW    6 P    250S                                                         |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--|
| MODEL:                                                                                                                                                 |  | CUSTOMER :                                                                           |                                                                                                    | REV. NO :    0                                                               |  |
| APPLICATION:                                                                                                                                           |  | PROJECT NAME:                                                                        |                                                                                                    | QUANTITY :                      SETS                                         |  |
| GENERAL DATA                                                                                                                                           |  |                                                                                      | PERFORMANCE DATA                                                                                   |                                                                              |  |
| FRAME NO.                                                                                                                                              |  | 250S                                                                                 |                                                                                                    | OUTPUT                      55                      kW                       |  |
| ENCLOSURE                                                                                                                                              |  | <input type="checkbox"/> DRIP PROOF                                                  |                                                                                                    | POLES                      6                      POLES                      |  |
|                                                                                                                                                        |  | <input checked="" type="checkbox"/> TOTALLY ENCLOSED                                 |                                                                                                    | ROTOR TYPE                      SQUIRREL CAGE                                |  |
|                                                                                                                                                        |  | <input type="checkbox"/> Increased Safety Exp.-proof                                 |                                                                                                    | <input type="checkbox"/> D.O.L <input checked="" type="checkbox"/> Y-△       |  |
| PROTECTION                      IP    55                                                                                                               |  | STARTING METHOD                                                                      |                                                                                                    | <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"/> VECTOR-DRIVE                                        |  |
| PHASE                      3                      PHASE                                                                                                |  | RATED VOLTAGE                      380                      V                      V |                                                                                                    |                                                                              |  |
| SERVICE FACTOR                      1.15                                                                                                               |  | FREQUENCY                      60                      Hz                            |                                                                                                    |                                                                              |  |
| INSULATION CLASS                      F                      CLASS                                                                                     |  | CURRENT                                                                              |                                                                                                    |                                                                              |  |
| TEMP. RISE AT FULL LOAD (at S.F 1.0)                                                                                                                   |  | NO LOAD                                                                              |                                                                                                    | 38.0                      A                      A                           |  |
|                                                                                                                                                        |  | FULL LOAD                                                                            |                                                                                                    | 108.9                      A                      A                          |  |
|                                                                                                                                                        |  | STARTING                                                                             |                                                                                                    | 664.1                      A                      A                          |  |
| LOCATION <input checked="" type="checkbox"/> INDOOR <input type="checkbox"/> OUTDOOR                                                                   |  | EFFICIENCY                                                                           |                                                                                                    |                                                                              |  |
| ALTITUDE                      1000                      m                                                                                              |  | AT 1/2 LOAD                                                                          |                                                                                                    | %                                                                            |  |
| HUMIDITY                      80                      %                                                                                                |  | AT 3/4 LOAD                                                                          |                                                                                                    | %                                                                            |  |
| AMBIENT TEMPERATURE                      -10~40                      °C                                                                                |  | AT FULL LOAD                                                                         |                                                                                                    | 93.6                      %                                                  |  |
| RATING <input checked="" type="checkbox"/> CONT. <input type="checkbox"/> %ED                                                                          |  | POWER FACTOR                                                                         |                                                                                                    |                                                                              |  |
| NEMA DESIGN                      B                                                                                                                     |  | AT 1/2 LOAD                                                                          |                                                                                                    | %                                                                            |  |
| MOUNTING <input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3B5                  |  | AT 3/4 LOAD                                                                          |                                                                                                    | %                                                                            |  |
| BEARING    TYPE                      BALL    /    BALL<br>DEW-DE                      6218C3    /    6314ZZC3<br>LUBRICANT                      GREASE |  | AT FULL LOAD                                                                         |                                                                                                    | 82.0                      %                                                  |  |
|                                                                                                                                                        |  | SPEED (AT FULL LOAD)                                                                 |                                                                                                    | 1175                      rpm                                                |  |
|                                                                                                                                                        |  | TORQUE                                                                               |                                                                                                    |                                                                              |  |
| COUPLING METHOD <input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> V-BELT                                                             |  | FULL LOAD                                                                            |                                                                                                    | 45.6                      kg-m                      100%                     |  |
| ROTATION(Facing Drive End) <input type="checkbox"/> CW <input checked="" type="checkbox"/> CCW                                                         |  | LOCKED ROTOR                                                                         |                                                                                                    | 54.7                      kg-m                      120%                     |  |
| SHAFT                                                                                                                                                  |  | BREAKDOWN                                                                            |                                                                                                    | 82.0                      kg-m                      180%                     |  |
| EXTENSION                      SINGLE                                                                                                                  |  | NOISE LEVEL                                                                          |                                                                                                    | 85.0                      dB(A)                                              |  |
| EXTERNAL THRUST                      -                                                                                                                 |  | VIBRATION                                                                            |                                                                                                    | 30.0                      μm                                                 |  |
| TERMINAL BOX                                                                                                                                           |  | ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT                                           |                                                                                                    |                                                                              |  |
| MAIN <input checked="" type="checkbox"/> STEEL <input type="checkbox"/> AL <input type="checkbox"/> CAST                                               |  | (AT DIRECT ON-LINE)                                                                  |                                                                                                    | 390.0                      kg-m²                                             |  |
| AUX. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                                                                               |  | Motor GD²                                                                            |                                                                                                    | 6.1729                      kg-m²                                            |  |
| BOX LOCATION                      LEFT    (Viewed from Drive end)                                                                                      |  | MOTOR APPROX. WEIGHT                                                                 |                                                                                                    | 450                      kg                                                  |  |
| APPLICATION STANDARDS                      KS.IEC                                                                                                      |  | PAINTING                                                                             |                                                                                                    | MUNSELL NO.                      5PB 2.5/8.0                                 |  |
|                                                                                                                                                        |  | THICKNESS                                                                            |                                                                                                    | <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> μm     |  |
| ACCESSORIES (OPTIONAL)                                                                                                                                 |  |                                                                                      | SUBMITTAL DRAWINGS                                                                                 |                                                                              |  |
| TEMPERATURE DETECTOR                                                                                                                                   |  |                                                                                      | OUTLINE DIMENSION                      DW-KMH-75HU8                                                |                                                                              |  |
| WINDING                      NO                                                                                                                        |  |                                                                                      | SPEED-TORQUE CURVE                      ST-KMH-75HU8                                               |                                                                              |  |
| TYPE                      -                                                                                                                            |  |                                                                                      | TERMINAL BOX DIMENSION                      TB-250SM-1                                             |                                                                              |  |
| BEARING                      NO                                                                                                                        |  |                                                                                      |                                                                                                    |                                                                              |  |
| TYPE                      -                                                                                                                            |  |                                                                                      |                                                                                                    |                                                                              |  |
| SPACE HEATER                      NO                                                                                                                   |  |                                                                                      |                                                                                                    |                                                                              |  |
| RATING                      -                                                                                                                          |  |                                                                                      |                                                                                                    |                                                                              |  |
| 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 HIGEN MOTOR STANDARD.                                                                |  |                                                                                      | 2. HIGH EFFICIENCY MOTOR.                                                                          |                                                                              |  |
| TE : TOTALLY ENCLOSED    DP : DRIP PROOF                                                                                                               |  |                                                                                      | DATE                      PREPARED                      CHECKED                      APPROVED      |                                                                              |  |
| FC : FAN COOLED                      SC : SELF COOLED                                                                                                  |  |                                                                                      | 2015-06-23                      J.H.KIM                      S.S.YUN                      T.I.PARK |                                                                              |  |