

| HIGEN   |  | INDUCTION MOTOR DATA SHEET   |   | 30 HP - 4 P   |  |
|---|--|--|---|---|--|
| MODEL: KMI-30HQ1  |  | CUSTOMER :   |   | REV. NO : 0   |  |
| APPLICATION:  |  | PROJECT NAME:  |   | QUANTITY : SETS   |  |
| GENERAL DATA  |  |  | PERFORMANCE DATA                                  |   |  |
| FRAME NO.   |  | 180M   |   | OUTPUT 22 kW 30 HP  |  |
| 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   |   | <input type="checkbox"/> D.O.L <input checked="" type="checkbox"/> Y-<br><input type="checkbox"/> REACTOR ( %TAP) <input type="checkbox"/> V.V.V.F<br><input type="checkbox"/> SOFT-STARTER |  |
| PROTECTION  |  | IP 44  |   | STARTING METHOD   |  |
| METHODS OF COOLING  |  | <input type="checkbox"/> SC <input checked="" type="checkbox"/> FC <input type="checkbox"/>                                  |   |   |  |
| FREQUENCY   |  | 50 Hz  |   | RATED VOLTAGE 380 V V V   |  |
| PHASE   |  | 3 PHASE  |   | CURRENT   |  |
| SERVICE FACTOR  |  | 1.0  |   | NO LOAD 18.0 A A A  |  |
| INSULATION CLASS  |  | F CLASS  |   | FULL LOAD 46.9 A A A  |  |
| TEMP. RISE AT FULL LOAD (at S.F 1.0)  |  |  |   | STARTING 403.7 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 89.0 %   |  |
| 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 80.0 %   |  |
| MOUNTING  |  | <input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3B5 |   | SPEED (AT FULL LOAD) 1465 rpm   |  |
| BEARING   |  | TYPE BALL  |   | TORQUE  |  |
|   |  | DEW-DE 6311ZZ/6309ZZ   |   | FULL LOAD 14.6 kg-m 100%  |  |
|   |  | LUBRICANT GREASE   |   | LOCKED ROTOR 26.3 kg-m 180%   |  |
| COUPLING METHOD   |  | <input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> V-BELT   |   | BREAKDOWN 29.2 kg-m 200%  |  |
| SHAFT   |  |  |   | NOISE LEVEL 82.0 dB(A)  |  |
| EXTENSION   |  | SINGLE   |   | VIBRATION 30.0 $\mu$ m  |  |
| EXTERNAL THRUST   |  |  |   | ALLOWABLE LOAD GD <sup>2</sup> REFERRED TO MOTOR SHAFT  |  |
| TERMINAL BOX  |  |  |   | (AT DIRECT ON-LINE) 78.7 kg-m <sup>2</sup>  |  |
| MAIN  |  | <input checked="" type="checkbox"/> STEEL <input type="checkbox"/> AL <input type="checkbox"/> CAST                          |   | Motor GD <sup>2</sup> 0.7447 kg-m <sup>2</sup>  |  |
| AUX.  |  | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO  |   | MOTOR APPROX. WEIGHT 180.0 kg   |  |
| BOX LOCATION  |  | LEFT (Viewed from Drive end)   |   | PAINTING MUNSELL NO. 7.1 B 4.0/0.9  |  |
| APPLICATION STANDARDS   |  | KS.IEC   |   | THICKNESS <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> $\mu$ m   |  |
| ACCESSORIES (OPTIONAL)  |  |  | SUBMITTAL DRAWINGS                                |   |  |
| TEMPERATURE DETECTOR  |  |  | OUTLINE DIMENSION DW-H-180M-CA                    |   |  |
| WINDING   |  |  | S-T CURVE ST-KMI-30HQ1                            |   |  |
| TYPE  |  |  | TERMINAL BOX DIMENSION TB-2M95115                 |   |  |
| BEARING   |  |  |   |   |  |
| TYPE  |  |  |   |   |  |
| SPACE HEATER  |  |  |   |   |  |
| 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 OTIS STANDARD.                      |  |  |   |   |  |
| FC : FAN COOLED SC : SELF COOLED  |  |  | DATE PREPARED CHECKED APPROVED                    |   |  |
|   |  |  | 2006-06-30 B.K.KIM J.S.PARK H.T.KIM               |   |  |