# HIGEN INDUCTION MOTOR DATA SHEET

5 HP - 4 P

| | | |
|---|---|---|
| MODEL: KMQ-05HK1 | CUSTOMER : | REV. NO : 0 |
| APPLICATION: | PROJECT NAME: | QUANTITY : SETS |

## GENERAL DATA

| | | |
|---|---|---|
| FRAME NO. | 112 | |
| ENCLOSURE | ☑ DRIP PROOF | |
| | ☐ TOTALLY ENCLOSED | |
| | ☐ Increased Safety Exp.-proof | |
| PROTECTION | IP 22 | |
| METHODS OF COOLING | ☐ SC ☐ FC ☐ | |
| PHASE | 3 PHASE | |
| SERVICE FACTOR | 1.15 | |
| INSULATION CLASS | B CLASS | |
| TEMP. RISE AT FULL LOAD (at S.F 1.0) | | |
| RES. METHOD | 80 ℃ | |
| THERMO. METHOD | ℃ | |
| LOCATION | ☑ INDOOR ☐ OUTDOOR | |
| ALTITUDE | 1000 m | |
| HUMIDITY | 90 % | |
| AMBIENT TEMPERATURE | -10~40 ℃ | |
| RATING | ☑ CONT. ☐ %ED | |
| NEMA DESIGN | B | |
| MOUNTING | ☑ B3 ☐ B5 ☐ V1 ☐ B3B5 | |
| BEARING TYPE | BALL | |
| BEARING DE\N-DE | 6206ZZ/6205ZZ | |
| BEARING LUBRICANT | | |
| COUPLING METHOD | ☑ DIRECT ☐ V-BELT | |
| ROTATION(Facing Drive End) | ☑ CW ☑ CCW | |
| SHAFT | | |
| EXTENSION | SINGLE | |
| EXTERNAL THRUST | | |
| TERMINAL BOX | | |
| MAIN | ☑ STEEL ☐ AL ☐ CAST | |
| AUX. | ☐ YES ☑ NO | |
| BOX LOCATION | LEFT (Viewed from Drive end) | |
| APPLICATION STANDARDS | IEC, KS | |

## PERFORMANCE DATA

| | | | | |
|---|---|---|---|---|
| OUTPUT | 3.7 kW | 5 HP | | |
| POLES | 4 POLES | | | |
| ROTOR TYPE | SQUIRREL CAGE | | | |
| STARTING METHOD | ☑ D.O.L ☐ Y-△ | | | |
| | ☐ REACTOR ( %TAP) ☐ V.V.V.F | | | |
| | ☐ SOFT-STARTER | | | |
| RATED VOLTAGE | 220 V | 380 V | - V | |
| FREQUENCY | 60 Hz | | | |
| CURRENT | | | | |
| NO LOAD | - A | - A | - A | |
| FULL LOAD | 13.8 A | 8.0 A | - A | |
| STARTING | 109.4 A | 63.3 A | - A | |
| EFFICIENCY | | | | |
| AT 1/2 LOAD | % | | | |
| AT 3/4 LOAD | % | | | |
| AT FULL LOAD | 83.5 % | | | |
| POWER FACTOR | | | | |
| AT 1/2 LOAD | % | | | |
| AT 3/4 LOAD | % | | | |
| AT FULL LOAD | 84.0 % | | | |
| SPEED (AT FULL LOAD) | 1730 rpm | | | |
| TORQUE | | | | |
| FULL LOAD | 2.1 kg-m | 100% | | |
| LOCKED ROTOR | 3.5 kg-m | 170% | | |
| BREAKDOWN | 4.2 kg-m | 200% | | |
| NOISE LEVEL | 65.0 dB(A) | | | |
| VIBRATION | 15.0 ㎛ | | | |
| ALLOWABLE LOAD GD² REFERRED TO MOTOR SHAFT | | | | |
| (AT DIRECT ON-LINE) | 12.5 $kg\text{-}m^2$ | | | |
| Motor GD² | 0.0600 $kg\text{-}m^2$ | | | |
| MOTOR APPROX. WEIGHT | 35.0 kg | | | |
| PAINTING MUNSELL NO. | 7.1B 4.0/0.9 | | | |
| PAINTING THICKNESS | ☑ STANDARD ☐ ㎛ | | | |

## ACCESSORIES (OPTIONAL)

| | |
|---|---|
| TEMPERATURE DETECTOR | |
| WINDING | |
| TYPE | |
| BEARING | |
| TYPE | |
| SPACE HEATER | |
| RATING | |

## SUBMITTAL DRAWINGS

| | |
|---|---|
| OUTLINE DIMENSION | DW-KMQ-05HK1 |
| SPEED VS TORQUE, CURRENT CURVE | ST-KMQ-05HK1 |

## NOTE

1. THESE DATA ARE ONLY DESIGN VALUES AND SHALL BE GUARANTEED WITH TOLERANCE OF APPLICATION STANDARDS.
2. OTHERS NOT MENTIONED IN THIS SHEET SHALL BE IN ACCORDANCE WITH OTIS STANDARD.

## REMARKS

1. ABOVE ALL DATA ARE CALCULATED AT 100% VOLTAGE.
2. ODP TYPE MOTOR

TE : TOTALLY ENCLOSED DP : DRIP PROOF
FC : FAN COOLED SC : SELF COOLED

| DATE | PREPARED | CHECKED | APPROVED |
|---|---|---|---|
| 2006.09.08 | H.G.HAN | H.J.KIM | H.T.KIM |