


|  | | INDUCTION MOTOR DATA SHEET | | 20 HP - 6 P | |
|---|--|-------------------------------|---|--|--|
| MODEL: KMI-20HV8 | | CUSTOMER : | | REV. NO : 0 | |
| APPLICATION: | | PROJECT NAME: | | QUANTITY : SETS | |
| GENERAL DATA | | | PERFORMANCE DATA | | |
| FRAME NO. | | 180M | | OUTPUT 15 kW 20 HP | |
| 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 | | STARTING METHOD | | <input type="checkbox"/> D.O.L <input checked="" type="checkbox"/> Y- <input type="checkbox"/> REACTOR (%TAP) <input type="checkbox"/> V.V.V.F |
| PROTECTION | IP 44 | | METHODS OF COOLING | | <input type="checkbox"/> SC <input checked="" type="checkbox"/> FC <input type="checkbox"/> |
| FREQUENCY | | 60 Hz | | RATED VOLTAGE 440 V V V | |
| PHASE | | 3 PHASE | | CURRENT | |
| SERVICE FACTOR | | 1.15 | | NO LOAD 13.0 A A A | |
| INSULATION CLASS | | F CLASS | | FULL LOAD 26.8 A A A | |
| TEMP. RISE AT FULL LOAD (at S.F 1.0) | | | | STARTING 179.6 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 82.5 % | |
| MOUNTING <input checked="" type="checkbox"/> B3 <input type="checkbox"/> B5 <input type="checkbox"/> V1 <input type="checkbox"/> B3B5 | | SPEED (AT FULL LOAD) | | 1170 rpm | |
| BEARING | TYPE | BALL | | TORQUE | |
| | DEW-DE | 6311ZZ/6309ZZ | | FULL LOAD 12.5 kg-m 100% | |
| | LUBRICANT | GREASE | | LOCKED ROTOR 22.5 kg-m 180% | |
| COUPLING METHOD <input checked="" type="checkbox"/> DIRECT <input type="checkbox"/> V-BELT | | | | BREAKDOWN 25.0 kg-m 200% | |
| SHAFT | | NOISE LEVEL | | 74.0 dB(A) | |
| EXTENSION | | SINGLE | | VIBRATION 30.0 μm | |
| EXTERNAL THRUST | | | | ALLOWABLE LOAD GD ² REFERRED TO MOTOR SHAFT | |
| TERMINAL BOX | | (AT DIRECT ON-LINE) | | 169.0 kg-m ² | |
| MAIN <input checked="" type="checkbox"/> STEEL <input type="checkbox"/> AL <input type="checkbox"/> CAST | | Motor GD ² | | 1.0462 kg-m ² | |
| AUX. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | MOTOR APPROX. WEIGHT | | 166.0 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"/> μm | |
| ACCESSORIES (OPTIONAL) | | | SUBMITTAL DRAWINGS | | |
| TEMPERATURE DETECTOR | | | OUTLINE DIMENSION DW-H-180M-CA | | |
| WINDING NO | | | S-T CURVE ST-KMI-20HV8 | | |
| TYPE | | | TERMINAL BOX DIMENSION TB-2M95115 | | |
| 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 OTIS STANDARD. | | | | | |
| FC : FAN COOLED SC : SELF COOLED | | | DATE PREPARED CHECKED APPROVED | | |
| | | | 2006-06-30 B.K.KIM J.S.PARK H.T.KIM | | |