

HITACHI

MANUFACTURER'S TEST REPORT OF INDUCTION MOTOR

| | | | |
|--------|--|----------|--|
| MESSRS | | ORDER No | |
|--------|--|----------|--|

SPECIFICATION FOR MOTOR

| | | | | | |
|---------------|---------------|----------------------|------|---------------------------|----------|
| OUT PUT(HP) | 5 | POLES | 4 | TYPE-FORM | EFOUP-KQ |
| FREQUENCY(HZ) | 50 | VOLTAGE(V) | 220 | CURRENT(A) | 27 |
| PHASES | 1 | RATING | S1 | INSULATION | B |
| STANDARD | JEC-2137-2000 | SECONDARY VOLTAGE(V) | — | SECONDARY CURRENT(A) | — |
| COOLING | — | PROTECTION | IP22 | SPEED(min ⁻¹) | 1450 |

| MFG No | FREQUENCY (HZ) | NO-LOAD TEST | | | LOCKED ROTOR TEST | | |
|--------|-------------------|--------------|------------|----------|-------------------|------------|----------|
| | | VOLTAGE(V) | CURRENT(A) | INPUT(W) | VOLTAGE(V) | CURRENT(A) | INPUT(W) |
| | 50 | 220 | 14.35 | 420.0 | — | — | — |
| | | | | | | | |
| | | | | | | | |

(3) WINDINGS RESISTANCE (BETWEEN LINES) STATOR 75°C M.COIL 0.37703 (Ω)
A.COIL 2.69305 (Ω)

(4) LOAD CHARACTERISTICS

| LOAD(%) | CURRENT(A) | EFFICIENCY(%) | POWERFACTOR(%) | SLIP(%) |
|---------|------------|---------------|----------------|---------|
| 25 | 17.59 | 55.1 | 43.7 | 0.38 |
| 50 | 17.33 | 78.8 | 62.1 | 0.97 |
| 75 | 20.67 | 85.6 | 71.9 | 1.57 |
| 100 | 26.01 | 85.5 | 76.3 | 2.12 |
| 125 | 32.11 | 84.9 | 77.8 | 2.60 |
| | | | | |

(5) MAXIMUM OUT PUT(%) STARTING CURRENT(A) STARTING TORQUE(%)

----- 138.5 ----- 197 -----

(6) TEMPERATURE RISE TEST (R): RESISTANCE METHOD

| MAIN COIL WINDINGS(K) | AUX.COIL WINDINGS(K) | FRAME(K) |
|--------------------------|-------------------------|----------|
| 48.5 (R) | 38.5 | 36.0 |

(7) INSULATION RESISTANCE BY 500V MEGGER 100MΩ

(8) WITHSTAND STATOR WINDINGS TO CORE 1500V 1MIN WITHSTOOD
VOLTAGE TEST ROTOR WINDINGS TO CORE — V 1MIN WITHSTOOD

(9) CONSTRUCTION, DIMENSION, PAINTING, OTHER PARTS SATISFACTORY

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| HITACHI INDUSTRIAL TECHNOLOGY (THAILAND) LTD. | CHECKED BY | M.KAMIZONO |
| | DATE | 3-JUNE-2015 |