

HITACHI

MANUFACTURER'S TEST REPORT OF INDUCTION MOTOR

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

SPECIFICATION FOR MOTOR

| | | | | | |
|---------------|---------------|----------------------|---------|---------------------------|-----------|
| OUT PUT(HP) | 75 | POLES | 2 | TYPE-FORM | VTFO-KK |
| FREQUENCY(HZ) | 50/50 | VOLTAGE(V) | 380/415 | CURRENT(A) | 101/98 |
| PHASES | 3 | RATING | S1 | INSULATION | F |
| STANDARD | JEC-2137-2000 | SECONDARY VOLTAGE(V) | — | SECONDARY CURRENT(A) | — |
| COOLING | IC411 | PROTECTION | IP55 | SPEED(min ⁻¹) | 2930/2950 |

| MFG No | FREQUENCY (HZ) | (1)NO-LOAD TEST | | | (2)LOCKED ROTOR TEST | | |
|--------|----------------|-----------------|------------|----------|----------------------|------------|----------|
| | | VOLTAGE(V) | CURRENT(A) | INPUT(W) | VOLTAGE(V) | CURRENT(A) | INPUT(W) |
| | 50 | 380 | 23.10 | 2184.0 | 70.0 | 100.0 | 2184.0 |
| | 50 | 415 | 36.57 | 2500.0 | 70.0 | 100.0 | 2500.0 |
| | | | | | | | |

(3)WINDINGS RESISTANCE (BETWEEN LINES) STATOR 115°C 0.10955 (Ω)

(4)LOAD CHARACTERISTICS

| LOAD(%) | CURRENT(A) | EFFICIENCY(%) | POWER FACTOR(%) | SLIP(%) |
|---------|---------------|---------------|-----------------|---------|
| 25 | 34.18/43.52 | 85.3/83.5 | 71.7/52.6 | 0.4/0.3 |
| 50 | 53.48/58.04 | 90.6/89.8 | 86.2/73.4 | 0.8/0.7 |
| 75 | 75.76/76.48 | 91.8/91.5 | 90.1/82.1 | 1.2/1.0 |
| 100 | 100.10/97.32 | 91.8/91.8 | 90.9/85.7 | 1.6/1.4 |
| 125 | 126.77/120.18 | 91.2/91.5 | 90.4/87.0 | 2.1/1.8 |
| | | | | |

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

215/250 718.0/784.0 264/314

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

| STATOR WINDINGS(K) | FRAME(K) | ROTOR WINDINGS(K) |
|--------------------|-----------|-------------------|
| 79.0/51.0 (R) | 75.5/48.5 | — |

(7)INSULATION RESISTANCE BY 500V MEGGER 100MΩ

(8)WITHSTAND STATOR WINDINGS TO CORE 1900V 1MIN WITHSTOOD
 VOLTAGE TEST ROTOR WINDINGS TO CORE — V 1MIN WITHSTOOD

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

| | | |
|---|------------|--------------|
| HITACHI INDUSTRIAL TECHNOLOGY (THAILAND) LTD. | CHECKED BY | T.SHIMOZONO |
| | DATE | 09-JUNE-2015 |

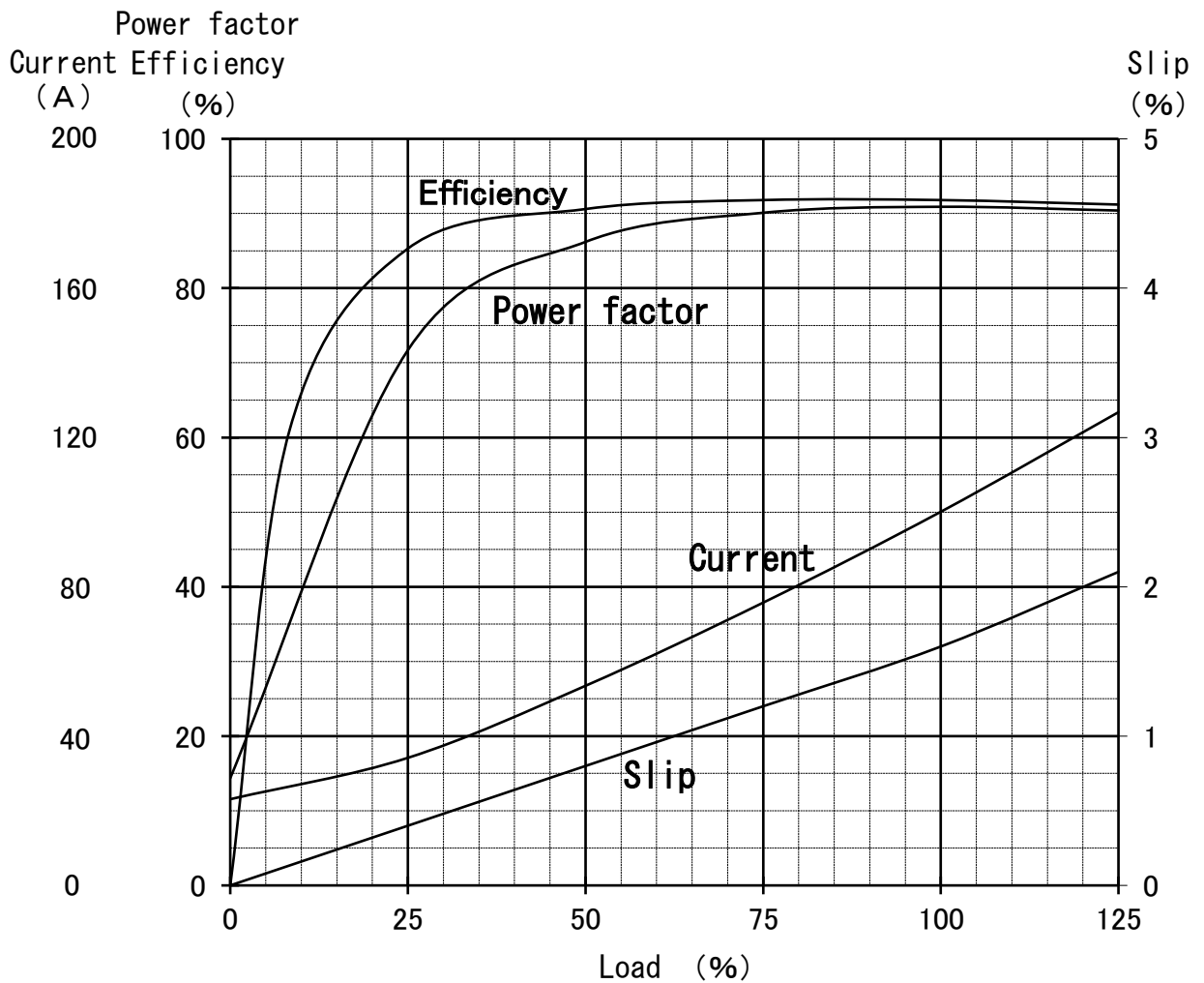
REP.No_RP10088

Three Phase Induction Motor Characteristic Curve

Hitachi Industrial Technology(Thailand),Ltd

| | |
|----------------|-----------------|
| Power (HP) | 75 |
| Pole | 2 |
| Type-Form | TFO-KK, VTFO-KK |
| Voltage (V) | 380 |
| Frequency (Hz) | 50 |
| Protection | IP44, IP55 |

| | | | | | | |
|------------------|-------|-------|-------|-------|--------|--------|
| Load (%) | 0 | 25 | 50 | 75 | 100 | 125 |
| Current (A) | 23.10 | 34.18 | 53.48 | 75.76 | 100.10 | 126.77 |
| Efficiency (%) | 0 | 85.3 | 90.6 | 91.8 | 91.8 | 91.2 |
| Power factor (%) | 14.4 | 71.7 | 86.2 | 90.1 | 90.9 | 90.4 |
| Slip (%) | 0 | 0.4 | 0.8 | 1.2 | 1.6 | 2.1 |



Speed-Torque, Current Curve

75HP (V) TF0-KK 2P
380/415V 50Hz
IP44/IP55

