

# 誘導電動機試験成績表

(TEST REPORT OF INDUCTION MOTOR)

御参考用  
**Nidec**  
 All for dreams

製作番号  
Our Order No

シリアル番号  
Serial No

機械番号  
Item No

台数  
No of Sets

ニデックテクノモータ株式会社  
NIDEC TECHNO MOTOR CORPORATION

| 形式<br>Type | 出力<br>Output (kW) | 極数<br>Poles | 定格<br>Rating | 相数<br>Phase | 耐熱クラス<br>TH.CL |
|------------|-------------------|-------------|--------------|-------------|----------------|
|            | 5.5               | 2           | CONT.        | 3           | E              |

## 特性試験 Characteristics Test

| 周波数<br>Freq.<br>(Hz) | 無負荷試験<br>No Load Test |                  |               | 拘束試験 Locked-Rotor Test |                  |               |                     | 巻線抵抗(端子間)<br>Resistance Between<br>Lines at 75 °C (Ω) |               |       |
|----------------------|-----------------------|------------------|---------------|------------------------|------------------|---------------|---------------------|---|---------------|-------|
|                      | 電圧<br>Voltage(V)      | 電流<br>Current(A) | 損失<br>Loss(W) | 電圧<br>Voltage(V)       | 電流<br>Current(A) | 損失<br>Loss(W) | 1/2周波数<br>Freq.(Hz) | 電圧<br>Voltage(V)                                      | 損失<br>Loss(W) |       |
| 50                   | 200                   | 6.80             | 504           | 41.0                   | 20               | 479           |                     |   |               | 0.508 |
| 60                   | 200                   | 5.10             | 600           | 48.0                   | 20               | 519           |                     |   |               |       |
| 60                   | 220                   | 5.80             | 640           | 48.0                   | 20               | 519           |                     |   |               |       |

## 負荷特性

### Load Characteristics

| 周波数<br>Freq.<br>(Hz) | 電圧<br>Voltage<br>(V) | 負荷率<br>Load<br>(%) | 電流<br>Current<br>(A) | 回転速度<br>Speed<br>(min <sup>-1</sup> ) | 効率<br>Efficiency<br>(%) | 力率<br>Power<br>Factor(%) | 最大トルク<br>Break-down<br>Torque(%) | 最小始動トルク<br>Locked-Rotor<br>Torque(%) | 最大始動電流<br>Starting<br>Current(A) |
|----------------------|----------------------|--------------------|----------------------|---------------------------------------|-------------------------|--------------------------|----------------------------------|--------------------------------------|----------------------------------|
| 50                   | 200                  | 25                 | 8.80                 | 2985                                  | 72.4                    | 62.5                     | 234                              | 246                                  | 149                              |
|                      |                      | 50                 | 12.1                 | 2969                                  | 82.5                    | 79.3                     |                                  |                                      |                                  |
|                      |                      | 75                 | 16.2                 | 2952                                  | 85.7                    | 85.7                     |                                  |                                      |                                  |
|                      |                      | 100                | 20.8                 | 2933                                  | 86.6                    | 88.1                     |                                  |                                      |                                  |
|                      |                      | 125                | 25.9                 | 2912                                  | 86.4                    | 88.7                     |                                  |                                      |                                  |
| 60                   | 200                  | 25                 | 7.60                 | 3585                                  | 69.0                    | 75.3                     | 204                              | 163                                  | 128                              |
|                      |                      | 50                 | 11.4                 | 3570                                  | 80.3                    | 86.7                     |                                  |                                      |                                  |
|                      |                      | 75                 | 15.7                 | 3553                                  | 84.2                    | 90.0                     |                                  |                                      |                                  |
|                      |                      | 100                | 20.5                 | 3534                                  | 85.6                    | 90.7                     |                                  |                                      |                                  |
|                      |                      | 125                | 25.7                 | 3512                                  | 85.7                    | 90.0                     |                                  |                                      |                                  |
| 60                   | 220                  | 25                 | 7.80                 | 3587                                  | 67.7                    | 68.2                     | 247                              | 199                                  | 141                              |
|                      |                      | 50                 | 11.0                 | 3574                                  | 79.7                    | 82.6                     |                                  |                                      |                                  |
|                      |                      | 75                 | 14.7                 | 3560                                  | 84.1                    | 87.7                     |                                  |                                      |                                  |
|                      |                      | 100                | 18.7                 | 3545                                  | 85.9                    | 89.6                     |                                  |                                      |                                  |
|                      |                      | 125                | 23.2                 | 3528                                  | 86.5                    | 90.0                     |                                  |                                      |                                  |

## 温度試験 Temperature Test (上昇値 Rise)

| 周波数<br>Freq.<br>(Hz) | 抵抗法<br>Resistance Method | 温度計法<br>Thermometer Method |                      |
|----------------------|--------------------------|----------------------------|----------------------|
|                      | 固定子巻線温度<br>Windings(K)   | 外被温度<br>Frame(K)           | 軸受温度<br>Bearings (K) |
| 50                   | 67                       | 33                         | 39                   |
| 60                   | 65                       | 33                         | 39                   |
| 60                   | 60                       | 30                         | 34                   |

|  |                             |  |
|--|-----------------------------|--|
| 絶縁抵抗<br>Ins. Resistance<br>By 500V Megger                | 100MΩ<br>以上 Above<br>良 Good | 外被, 構造, 寸法検査<br>Inspection of Appearance<br>Construction & Outline<br>Dimensions<br>良 Good |
| 耐電圧試験(1分間)<br>High Potential Test<br>(A.C.60Hz For 1min) | V<br>1500<br>良 Good         |  |

|                                  |                                  |                                     |                                    |
|----------------------------------|----------------------------------|-------------------------------------|------------------------------------|
| ブレーキトルク<br>Braking Torque<br>(%) | ブレーキ電流<br>Braking Current<br>(A) | 振動試験<br>Vibration Test<br>V— 良 Good | 騒音試験dB (A)<br>Noise Test<br>良 Good |
|----------------------------------|----------------------------------|-------------------------------------|------------------------------------|

## 防爆構造検査 Inspection of Explosion-proof Construction

| 防爆構造<br>Type of Explosion<br>Protection | 爆発等級<br>Explosion<br>Class | 発火度<br>Ignition Temp<br>Group | 拘束電流(A)<br>Locked-Rotor<br>Current | 許容拘束時間(Sec)<br>Permissible<br>Locking Time | 危険場所<br>Hazardous<br>Area |
|---|----------------------------|-------------------------------|------------------------------------|--|---------------------------|
| d                                       | 2                          | G4                            |                                    |  |                           |

注記 Notes :

試験日

Date of Test :

承認

Approved By :

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