

# 誘導電動機試験成績表

(TEST REPORT OF INDUCTION MOTOR)



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

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

|            |                   |             |              |             |                |
|------------|-------------------|-------------|--------------|-------------|----------------|
| 型式<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 |
|            | 2.2               | 4           | 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        |                  |                  | 1/2周波数 Freq.(Hz) |                  | 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) | 定格周波数<br>Rated Frequency (Hz) | 電圧<br>Voltage(V) | 電流<br>Current(A) | 損失<br>Loss(W)    | 電圧<br>Voltage(V) |   |
| 50                   | 200                   | 5.09             | 276           | 43.5                          | 9.6              | 360              |                  |                  | 1.477   |
| 60                   | 200                   | 3.61             | 188           | 51.0                          | 9.6              | 384              |                  |                  |   |
| 60                   | 220                   | 4.29             | 248           | 51.0                          | 9.6              | 384              |                  |                  |   |

## 負荷特性

| 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                 | 5.56                 | 1486                                  | 65.7                    | 43.5                     | 252                              | 282                                  | 57                               |
|                      |                      | 50                 | 6.56                 | 1471                                  | 77.1                    | 62.8                     |                                  |                                      |                                  |
|                      |                      | 75                 | 7.97                 | 1454                                  | 80.6                    | 74.2                     |                                  |                                      |                                  |
|                      |                      | 100                | 9.72                 | 1436                                  | 81.2                    | 80.5                     |                                  |                                      |                                  |
|                      |                      | 125                | 11.8                 | 1414                                  | 80.4                    | 83.8                     |                                  |                                      |                                  |
| 60                   | 200                  | 25                 | 4.19                 | 1781                                  | 73.3                    | 51.8                     | 222                              | 248                                  | 54                               |
|                      |                      | 50                 | 5.39                 | 1760                                  | 82.0                    | 71.9                     |                                  |                                      |                                  |
|                      |                      | 75                 | 7.00                 | 1738                                  | 83.9                    | 81.2                     |                                  |                                      |                                  |
|                      |                      | 100                | 8.92                 | 1712                                  | 83.5                    | 85.3                     |                                  |                                      |                                  |
|                      |                      | 125                | 11.2                 | 1680                                  | 81.7                    | 86.8                     |                                  |                                      |                                  |
| 60                   | 220                  | 25                 | 4.74                 | 1784                                  | 68.0                    | 44.8                     | 270                              | 302                                  | 60                               |
|                      |                      | 50                 | 5.68                 | 1767                                  | 79.0                    | 64.4                     |                                  |                                      |                                  |
|                      |                      | 75                 | 6.97                 | 1749                                  | 82.4                    | 75.4                     |                                  |                                      |                                  |
|                      |                      | 100                | 8.53                 | 1729                                  | 83.2                    | 81.3                     |                                  |                                      |                                  |
|                      |                      | 125                | 10.3                 | 1707                                  | 82.7                    | 84.4                     |                                  |                                      |                                  |

## 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                   | 57                       | 34                         | 20                   |
| 60                   | 47                       | 28                         | 16                   |
| 60                   | 46                       | 27                         | 16                   |

## 絶縁抵抗

|   |  |
|---|--|
| Ins. Resistance<br>By 500V Megger<br>耐電圧試験(1分間)<br>High Potential Test<br>(A.C.60Hz For 1min) | 100MΩ<br>以上 Above<br>良 Good<br>V<br>1500<br>良 Good |
|---|--|

## 外被, 構造, 寸法検査

|  |
|--|
| Inspection of Appearance<br>Construction & Outline<br>Dimensions<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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