

# 誘導電動機試験成績表

(TEST REPORT OF INDUCTION MOTOR)

御参考用



All for dreams

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.

製造番号  
Serial No.

機械番号  
Item No.

台数  
No. of Sets

|            |                   |             |              |             |                |
|------------|-------------------|-------------|--------------|-------------|----------------|
| 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           | B              |

## 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 95 °C (Ω) |       |
|----------------------|-----------------------|------------------|---------------|----------------------------|------------------|---------------|------------------|--|-------|
|                      | 電圧<br>Voltage(V)      | 電流<br>Current(A) | 損失<br>Loss(W) | 定格周波数 Rated Frequency (Hz) |                  |               | 1/2周波数 Freq.(Hz) |  |       |
|                      |                       |                  |               | 電圧<br>Voltage(V)           | 電流<br>Current(A) | 損失<br>Loss(W) | 電圧<br>Voltage(V) | 損失<br>Loss(W)  |       |
| 50                   | 200                   | 5.95             | 382           | 39.9                       | 20               | 492           |                  |  | 0.427 |
| 60                   | 200                   | 4.81             | 460           | 46.7                       | 20               | 528           |                  |  |       |
| 60                   | 220                   | 5.32             | 514           | 46.7                       | 20               | 528           |                  |  |       |

## 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                 | 7.90                 | 2978                                  | 77.6                    | 64.8                     | 249                              | 191                                  | 115                              |
|                      |                      | 50                 | 11.3                 | 2974                                  | 86.0                    | 81.5                     |                                  |                                      |                                  |
|                      |                      | 75                 | 15.4                 | 2959                                  | 88.6                    | 87.4                     |                                  |                                      |                                  |
|                      |                      | 100                | 19.9                 | 2944                                  | 89.3                    | 89.5                     |                                  |                                      |                                  |
|                      |                      | 125                | 24.8                 | 2926                                  | 89.1                    | 89.9                     |                                  |                                      |                                  |
| 60                   | 200                  | 25                 | 7.19                 | 3584                                  | 74.3                    | 74.2                     | 219                              | 156                                  | 96                               |
|                      |                      | 50                 | 10.9                 | 3567                                  | 84.0                    | 86.7                     |                                  |                                      |                                  |
|                      |                      | 75                 | 15.2                 | 3549                                  | 87.1                    | 90.2                     |                                  |                                      |                                  |
|                      |                      | 100                | 19.8                 | 3529                                  | 88.1                    | 91.0                     |                                  |                                      |                                  |
|                      |                      | 125                | 24.9                 | 3506                                  | 88.0                    | 90.5                     |                                  |                                      |                                  |
| 60                   | 220                  | 25                 | 7.28                 | 3587                                  | 72.3                    | 68.6                     | 266                              | 190                                  | 107                              |
|                      |                      | 50                 | 10.4                 | 3573                                  | 82.9                    | 83.4                     |                                  |                                      |                                  |
|                      |                      | 75                 | 14.1                 | 3558                                  | 86.6                    | 88.6                     |                                  |                                      |                                  |
|                      |                      | 100                | 18.1                 | 3542                                  | 88.1                    | 90.4                     |                                  |                                      |                                  |
|                      |                      | 125                | 22.4                 | 3525                                  | 88.6                    | 90.8                     |                                  |                                      |                                  |

## 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                       | 47 | 32                         | 30                   |
| 60                   | 43                       | 29 | 27                         |                      |
| 60                   | 40                       | 27 | 25                         |                      |

|  |                             |  |
|--|-----------------------------|--|
| 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) | 1500<br>良 Good              |  |

|                           |                           |                        |                          |
|---------------------------|---------------------------|------------------------|--------------------------|
| ブレーキトルク<br>Braking Torque | ブレーキ電流<br>Braking Current | 振動試験<br>Vibration Test | 騒音試験dB (A)<br>Noise Test |
| (%)                       | (A)                       | V—                     | 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 |
| e                                       |                            | G3                            | 115                                | 10   | 2ND                       |

注記 Notes:

試験日

Date of Test :

承認

Approved By :

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