

# TEST REPORT OF GEAR MOTOR

## [ギアモータ試験成績書]

Model  
[品名] F2FB-15L-10-S15C

- The values in this test reports are representative values of the motor itself (without a gear head).
- The efficiency of the gear head is not considered.
- この試験成績書は、モータ単体(ギアヘッドなし)での代表特性です。そのため、減速機の効率等は含まれていません。

Specification For Motor [モータ仕様]

Standard code: JIS C 4004

|                   |                                 |                                   |                           |      |            |   |
|-------------------|---------------------------------|-----------------------------------|---------------------------|------|------------|---|
| Manufacturer[製造者] | NISSEI CORPORATION              |                                   | Capacitor (μF)<br>[コンデンサ] |      | Start [始動] |   |
| Name [名称]         | 0.015kW 1 PHASE INDUCTION MOTOR |                                   |                           |      | Run [運転]   | 5 |
| Type [型式]         | DS-75                           | Frequency (Hz) [周波数]              | 50                        | 60   |            |   |
| Poles [極数]        | 4                               | Voltage (V) [電圧]                  | 100                       | 100  |            |   |
| Rating [定格]       | S1 CONT.                        | Current (A) [電流]                  | 0.39                      | 0.35 |            |   |
| Ins. class [絶縁]   | B                               | Rotational Frequency(r/min)[回転速度] | 1350                      | 1650 |            |   |

Characteristics Test [特性試験]

| Frequency<br>(Hz)<br>[周波数] | No Load Test [無負荷試験] |                    |                 | Resistance Between at 20 °C (Ω)<br>[端子間抵抗] |  |  |
|----------------------------|----------------------|--------------------|-----------------|--------------------------------------------|--|--|
|                            | Voltage(V)<br>[電圧]   | Current(A)<br>[電流] | Loss(W)<br>[損失] |                                            |  |  |
| 50                         | 100                  | 0.29               | 22              | 55.2                                       |  |  |
| 60                         | 100                  | 0.22               | 21              |                                            |  |  |
|                            |                      |                    |                 |                                            |  |  |
|                            |                      |                    |                 |                                            |  |  |

Load Characteristics [負荷特性]

| Frequency<br>(Hz)<br>[周波数] | Voltage<br>(V)<br>[電圧] | Load<br>(%)<br>[負荷率] | Current<br>(A)<br>[電流] | Rotational<br>Frequency(r/min)<br>[回転速度] | Input<br>(W)<br>[入力] | Break-down<br>Torque(%)<br>[停動トルク] | Locked-rotor<br>Torque(%)<br>[始動トルク] | Starting<br>Current(A)<br>[始動電流] |
|----------------------------|------------------------|----------------------|------------------------|------------------------------------------|----------------------|------------------------------------|--------------------------------------|----------------------------------|
| 50                         | 100                    | 25                   | 0.30                   | 1465                                     | 24                   | 203                                | 83                                   | 0.72                             |
|                            |                        | 50                   | 0.31                   | 1445                                     | 26                   |                                    |                                      |                                  |
|                            |                        | 75                   | 0.32                   | 1420                                     | 28                   |                                    |                                      |                                  |
|                            |                        | 100                  | 0.34                   | 1395                                     | 30                   |                                    |                                      |                                  |
| 60                         | 100                    | 25                   | 0.24                   | 1760                                     | 24                   | 174                                | 82                                   | 0.67                             |
|                            |                        | 50                   | 0.27                   | 1735                                     | 26                   |                                    |                                      |                                  |
|                            |                        | 75                   | 0.29                   | 1710                                     | 29                   |                                    |                                      |                                  |
|                            |                        | 100                  | 0.32                   | 1675                                     | 32                   |                                    |                                      |                                  |
|                            |                        | 25                   |                        |                                          |                      |                                    |                                      |                                  |
|                            |                        | 50                   |                        |                                          |                      |                                    |                                      |                                  |
|                            |                        | 75                   |                        |                                          |                      |                                    |                                      |                                  |
|                            |                        | 100                  |                        |                                          |                      |                                    |                                      |                                  |
|                            |                        | 25                   |                        |                                          |                      |                                    |                                      |                                  |
|                            |                        | 50                   |                        |                                          |                      |                                    |                                      |                                  |
|                            |                        | 75                   |                        |                                          |                      |                                    |                                      |                                  |
|                            |                        | 100                  |                        |                                          |                      |                                    |                                      |                                  |

Temperature Rise Test [温度上昇試験] Frame : Thermometer Method [温度計法]

| Frequency(Hz)<br>[周波数] | Voltage(V)<br>[電圧] | Frame(°C)<br>[外被] |
|------------------------|--------------------|-------------------|
| 50 / 60 / /            | 100 / 100 / /      | 31 / 27 / /       |

- The temperature rise test is the representative property as the gearmotor.
- 温度上昇試験は、ギアモータでの代表特性です。

Insulation Resistance by 500 V Megger 100MΩ  
[500Vメガ計による絶縁抵抗]

Withstand Voltage Test 1500 V/min. Withstood  
[絶縁耐力試験] [良]

Remarks [注]

|                                                     |                       |                    |                     |
|-----------------------------------------------------|-----------------------|--------------------|---------------------|
| NISSEI CORPORATION<br>Anjo Aichi Japan<br>[(株)ニッセイ] | Date of Test<br>[試験日] | Tested by<br>[測定者] | Approved by<br>[承認] |
|                                                     | 1999. 5. 6            | S.Yamada           | K.Amano             |