

# TEST REPORT OF GEAR MOTOR

[ギアモータ試験成績書]

Model

[品名] F3F18L10N-PM01NVTJ2

- 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 Part [電動機部仕様]

Standard code : UL1004-1, EN60034-1, GB12350

|                    |                    |                      |         |
|--------------------|--------------------|----------------------|---------|
| Name [名 称]         | IPM Motor          |                      |         |
| Manufacturer [製造者] | NISSEI CORPORATION |                      |         |
| Capacity [出 力]     | 0.1kW              | Frequency (Hz) [周波数] | 50/60   |
| Phase [相 数]        | 3                  | Voltage (V) [電 圧]    | 200~230 |
| Poles [極 数]        | 4                  | Current (A) [電 流]    | 0.45    |
| Rating [定 格]       | S1 CONT.           | Ins. class [絶 縁]     | F       |

Parameters [パラメータ] at 20°C

|                                                               |      |
|---------------------------------------------------------------|------|
| Winding Resistance Between Terminals ( $\Omega$ ) [巻線抵抗(端子間)] | 24.4 |
| E. M. F Const Between Terminals (mV/r/min) [誘起電圧定数(端子間)]      | 81.1 |

Load Characteristics [負荷特性] (For Both 50 Hz And 60 Hz[50,60Hz共通])

| Rev. [回転速度]   | 150r/min         |                  | 1000r/min        |                  | 1800r/min        |                  |
|---------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Load (%) [負荷] | Current (A) [電流] | Input (W) [入力電力] | Current (A) [電流] | Input (W) [入力電力] | Current (A) [電流] | Input (W) [入力電力] |
| 0             | 0.132            | 1.6              | 0.090            | 7.8              | 0.094            | 15.3             |
| 25            | 0.179            | 4.8              | 0.161            | 22.3             | 0.171            | 41.6             |
| 50            | 0.256            | 8.3              | 0.251            | 37.8             | 0.261            | 68.1             |
| 75            | 0.342            | 12.4             | 0.345            | 53.8             | 0.357            | 96.0             |
| 100           | 0.435            | 17.3             | 0.442            | 70.8             | 0.454            | 124.0            |

- Current [A] and Input [W] are the values supplied from the inverter to the motor when using Nissei's inverter.
- 電流、入力電力は当社専用インバータを使用した場合のインバータからモータへの入力値です。

Temperature Rise Test [温度上昇試験]

| Load (%) [負荷] | Rev. [回転速度] | Hours Run (h) [運転時間] | Stator [固定子]                                               |                                                           |
|---------------|-------------|----------------------|------------------------------------------------------------|-----------------------------------------------------------|
|               |             |                      | Winding by Resist Method ( $^{\circ}\text{C}$ ) [巻線 (抵抗法)] | Frame by Thermometer Method ( $^{\circ}\text{C}$ ) [フレーム] |
| 100           | 1800r/min   | 4                    | 46                                                         | 43                                                        |

- 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 500V Megger 100M $\Omega$   
[500Vメガ計による絶縁抵抗]

Withstand Voltage Test 1500V/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 [試験日] | Tested by [測定者] | Approved by [承認] |
|                                                      | 2019.08.30         | Y.Miura         | H.Hayashi        |