Terminal Box Motor / Three Phase Induction

Motor

Scale 1/4 Unit mm

M8MA25GT4Y 4P 25W 200-220V

Weight 1.5kg
helical gear module 0.6
number of teeth 11

M9MA40GT4Y 4P 40W 200-220V

Weight 2.5kg
helical gear module 0.6
number of teeth 11

Gear Head

Scale 1/4 Unit mm

M8GA□M (metal bearing type) weight 0.68kg

M8GA□B (ball bearing type)

Note: The value in "[]" is for gear ratio of 1/20 or larger.

M9GA□M (metal bearing type) weight 1.2kg

M9GA□B (ball bearing type)

Note: The value in "[]" is for gear ratio of 1/20 or larger.

Connecting Diagram

As for CW rotation, change the 2 leads among R, S, T shown above.

(key) Applicable vennyl cap tire code is 6.8—8.6 in diameter.

Key and Key Slot

M8GA□M(B)

M9GA□M(B)

Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
<th>poles</th>
<th>Output (W)</th>
<th>Voltage (V)</th>
<th>Frequency (Hz)</th>
<th>Duty</th>
<th>Rated load</th>
<th>Starting Torque (kg-cm)</th>
<th>Starting Torque Current (A)</th>
<th>Capacitor (μF)</th>
<th>Applied gearhead type</th>
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</table>
■ Geared motor maximum permissible torque table (kg⋅cm)

Note: rpm figures are based on synchronous speed. The actual output rpm, under rated torque conditions, is about 2~20% less than synchronous speed. A grey background indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. A white background indicates rotation in the opposite direction.

<table>
<thead>
<tr>
<th>Speed (rpm)</th>
<th>500</th>
<th>300</th>
<th>200</th>
<th>180</th>
<th>150</th>
<th>120</th>
<th>100</th>
<th>90</th>
<th>75</th>
<th>60</th>
<th>50</th>
<th>30</th>
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<th>6</th>
<th>5</th>
<th>3</th>
<th>2</th>
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<td>20</td>
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<td>60Hz ratio</td>
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<td>12.5</td>
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<td>Maximum permissible torque (kg⋅cm)</td>
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</tbody>
</table>

Note: The box [□] represents the desired gear reduction ratio, which thereby becomes part of the code for geared motor.
Terminal Box Motor / Three Phase Induction

Motor

M9MC60GT4Y 4P 60W 200-220V

Scale 1/4 Unit mm

Weight 2.8kg
helical gear module 0.8
number of teeth 11

M9MC90GT4Y 4P 90W 200-220V

Scale 1/4 Unit mm

Weight 3.1kg
helical gear module 0.8
number of teeth 11

Gear Head

M9GC□B (ball bearing type) 1.5kg

Scale 1/4 Unit mm

C type 200kg·cm/max. permissible torque
S type 90kg·cm/max. permissible torque

Connecting Diagram

Connect to Clockwise

Counter Clockwise

Terminal screw M4

Terminal board

Ground screw M4

As for CW rotation, change the 2 leads among R, S, T shown above.
(cautions) Applicable vinyl cap tire code is 6.8—6.8 in diameter.

Key and Key Slot

M9GC□B
M9GS□B

<table>
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<tr>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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Specifications

<table>
<thead>
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<th>Frequency (Hz)</th>
<th>Duty</th>
<th>Rated Load</th>
<th>Starting Current (A)</th>
<th>Starting Torque (kg·cm)</th>
<th>Capacitor (ofF/V)</th>
<th>Applied Gearhead Type</th>
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<td>0.57</td>
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<td>M9GC□B</td>
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</tbody>
</table>

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Speed-Torque Curve

**M9MC60GT4Y**

**M9MC90GT4Y**

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**Geared motor maximum permissible torque table (kg·cm)**

Note: rpm figures are based on synchronous speed. The actual output rpm, under rated torque conditions, is about 2~20% less than synchronous speed. A grey background indicates that the output shaft of the geared motor rotates in the same direction as the output shaft of the motor. A white background indicates rotation in the opposite direction.

**直結軸馬達最大承受扭力對照表**

rpm表列數字乃根據馬達同步轉速之轉速，但在額定扭力負荷下實際輸出轉速與同步轉速差約2~20%。灰色背景輸出軸轉方向與馬達相同時的數據資料，白色背景輸出軸轉方向與馬達相反時的數據資料。

**GEAR HEAD를 直結함을 때의 設計輸動力**

- 同軸輸出 deviated axis에 대(대)를 둔(없)습니다. 一般 同軸輸出 deviated axis의 코기에 따라 표시를 보(보) 2(정)~20(%)에(에) 표시(시)됩니다.
- 輸動方法은 약 타지 공방으로 둔 운이(이)줍니다.

| Speed (rpm) | 500  | 300  | 200  | 180  | 150  | 120  | 100  | 90   | 75   | 60   | 50   | 30   | 20   | 15   | 10   | 9    | 7.5  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Gear reduction ratio | 50Hz | 3.8  | 3.5  | 3.0  | 2.5  | 2.0  | 1.5  | 1.0  | 0.75 | 0.50 | 0.35 | 0.25 | 0.15 | 0.10 | 0.07 | 0.05 | 0.04 | 0.03 |
| Maximum permissible torque (kg·cm) | 200  | 155  | 122  | 99   | 77   | 55   | 37   | 27   | 20   | 15   | 10   | 6.9  | 5.5  | 3.7  | 2.7  | 2.25 | 1.5  |
| Maximum permissible torque (kg·cm) | 300  | 216  | 155  | 122  | 99   | 77   | 55   | 37   | 27   | 20   | 15   | 10   | 6.9  | 5.5  | 3.7  | 2.7  | 2.25 | 1.5  |

Note: The box represents the desired gear reduction ratio, which thereby becomes part of the code for geared motor.

With decimal gearhead:

- 6 5 3 2 1.5 1 0.9 0.75
- 250 300 500 750 1000 1500 2000
- 300 360 600 900 1200 1800 2000

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