Torque Motors

TMK INTERFACE DRAWINGS
**Sensor configuration 8**

- White
- Brown
- Green
- Yellow
- Grey
- Pink
- Blue
- Red (*)

```
+ Phase 1
+ Phase 2
+ Phase 3
KTY84
KTY84
KTY84
KTY84
SNM120
S01.120
```

**Sensor configuration H**

- White
- Brown
- Green
- Yellow
- Grey
- Pink
- Blue
- Red (*)

```
+ Phase 1
+ Phase 2
+ Phase 3
KTY84
KTY84
KTY84
KTY84
KTY84
KTY84
KTY84
KTY84
```

**Sensor configuration T**

- White
- Brown
- Green
- Yellow
- Grey
- Pink
- Blue
- Red

```
+ Phase 1
+ Phase 2
+ Phase 3
PT 1000
PT 1000
PT 1000
KTY84
KTY84
KTY84
KTY84
KTY84
```

### Color and wire number

<table>
<thead>
<tr>
<th>Color and wire number</th>
<th>Function</th>
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<tbody>
<tr>
<td>Black wire with number 1 or U</td>
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<td>Phase 2 (PH2)</td>
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</tr>
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<td>Black wire with number 3 or W</td>
<td>Phase 3 (PH3)</td>
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</tr>
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</tr>
<tr>
<td>Black wire with number Br2 or 6 or black wire without label</td>
<td>None(**)</td>
<td></td>
</tr>
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(**): This wire is automatically present when the neutral point wire (which is an option) is added in the motor as it is a 2 x 1 or 2 x 1.5 mm² cable.

### Power cable connection

- Black wire with number 1 or U (PH1)
- Black wire with number 2 or V (PH2)
- Black wire with number 3 or W (PH3)
- Yellow and green wire (GND)
- Black wire with number Br1 or 5 or white cable
- Neutral point wire (present only on some motor types)
- Black wire with number Br2 or 6 or black wire without label

### Wire section (mm²)

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>1 x 1.5</th>
<th>1 x 2.5</th>
<th>1 x 4</th>
<th>1 x 6</th>
<th>1 x 10</th>
<th>1 x 16</th>
<th>Sensor cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable motors</td>
<td>TMK0291</td>
<td>TMK0360</td>
<td>TMK0761</td>
<td>TMK0991</td>
<td>TMK0360</td>
<td>TMK0530</td>
<td>All TMK</td>
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<td>R = 6 x D</td>
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</tr>
<tr>
<td>Minimum bend radius for moving cable</td>
<td>R = 10 x D</td>
<td>R = 7.5 x D</td>
<td>R = 7.5 x D</td>
<td>R = 7.5 x D</td>
<td>R = 7.5 x D</td>
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<td></td>
</tr>
</tbody>
</table>

### Wire section (mm²)

- Black wire with number 1 or U
- Black wire with number 2 or V
- Black wire with number 3 or W
- Black wire without label

---

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**Power cable connection**

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**Sensor configuration 9**

![Sensor configuration 9 diagram](image)

- Red (*): Red wire (if present) is not connected on the motor side and cutted flush on cable extremity.

**Sensor configuration H**

![Sensor configuration H diagram](image)

**Sensor configuration T**

![Sensor configuration T diagram](image)

**Wire section (mm²)**

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<tr>
<th>Characteristics</th>
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Sensor configuration 8

White Brown Green Yellow Grey Pink Blue Red (*)

Phase 1 Phase 2 Phase 3 Phase 1 Phase 2 Phase 3

KTY84 KTY84 KTY84 KTY84 KTY84 KTY84
SNM120 S01.120

Sensor configuration H

White Brown Green Yellow Grey Pink Blue Red (*)

Phase 1 Phase 2 Phase 3 Phase 1 Phase 2 Phase 3

KTY84 KTY84 KTY84 KTY84 KTY84 KTY84

Sensor configuration T

White Brown Green Yellow Grey Pink Blue Red

Phase 1 Phase 2 Phase 3 Phase 1 Phase 2 Phase 3

PT 1000 PT 1000 PT 1000

Temperature sensor configuration

Pink Blue White Brown

Phase 1 \ Phase 2 \ Phase 3

Sensor cable connection: "P" configuration

Phase 1 \ Phase 2 \ Phase 3

(\*) Red wire (if present) is not connected on the motor side and cutted flush on cable extremity.
Sensors configuration 8

Sensor configuration H

Sensor configuration T

Power cable connection

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Wire section (mm²)

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I-I 1:1 \( \frac{X}{X} \) \( \frac{Y}{Y} \) \( \frac{Z}{Z} \)

Rotor shoulder position on cable side

Rotor shoulder position on opposite side of cable

Do not use as reference area or storage surface

Identification label

Use M8 screws with 12.9 quality to assemble rotor and stator

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>N1</th>
<th>N2</th>
<th>N3</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tmk-0761-050</td>
<td>130</td>
<td>81</td>
<td>60</td>
<td>24</td>
<td>24</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td>Tmk-0761-070</td>
<td>150</td>
<td>101</td>
<td>80</td>
<td>24</td>
<td>24</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td>Tmk-0761-100</td>
<td>180</td>
<td>131</td>
<td>110</td>
<td>48</td>
<td>46</td>
<td>23</td>
<td>7.5</td>
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<tr>
<td>Tmk-0761-150</td>
<td>230</td>
<td>181</td>
<td>160</td>
<td>48</td>
<td>46</td>
<td>23</td>
<td>7.5</td>
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Water cooling inlet / Outlet

O-Ring seal

Identification label

For cables outputs information see sheet 2

Do not use as reference area or storage surface

Identification label

M8 screws with 12.9 quality to assemble rotor and stator

Torque motor Tmk0761 (interface) Material:

RoHS 3:10

Surface treatment:

General tolerances ISO 8015:2011

Surfaces as per ISO 1302

Dimensions in mm / Cotes en mm

Mating Dimensions / Cotes d'encombrement

Workpiece edges ISO 13715

Arêtes de formes selon ISO 13715

Tolerances as per ISO 2768-mK

Tolérances générales ISO 2768-mK

Tolerances as per ISO 8015:2011

Tolérances selon ISO 8015:2011

Surface treatment:

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KTY84  KTY84  KTY84  SNM120  S01.120

Phase 1
Phase 2
Phase 3

Sensor configuration H

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KTY84  KTY84  KTY84  KTY84  KTY84  KTY84  KTY84  KTY84

Phase 1
Phase 2
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Sensor configuration T

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PT 1000
PT 1000
PT 1000

SNM 120

**Power cable connection**

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**Sensor cable connection**

1. **Sensor configuration 8**
   - White
   - Brown
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   - Grey
   - Pink
   - Blue
   - Red (*)

2. **Sensor configuration H**
   - White
   - Brown
   - Green
   - Yellow
   - Grey
   - Pink
   - Blue
   - Red (*)

3. **Sensor configuration T**
   - White
   - Brown
   - Green
   - Yellow
   - Grey
   - Pink
   - Blue
   - Red

(*) Red wire (if present) is not connected on the motor side and cutted flush on cable extremity.