Technical Specification

**Client Name:**
**Part Number:** TAU0730TM-14

**Client Part Number:**

1. **Applicability**
   This specification applies only for Open frame solenoid TAU0730TM-14

2. **Standard test conditions**
   2-1 Environment
   - Ambient temperature: 60 ±2℃
   - Relative humidity: 65 ± 5%
   - Atmospheric pressure: 1013mbar

   2-2 Test load
   - Empty load

   2-3 Power supply
   - Adjustable DC 12V power supply

   2-4 Test Method
   - (1) Attraction force: when the armature is in a vertical position, push style conducts pressure test while the pull style conducts tensile test.
   - (2) The initial force: read by the force vs stroke graph on the specified stroke range.
   - (3) Retentivity: read by the force vs stroke when energized closed.

3. **Outside drawing**
   3-1 Overall dimension: refer to page 3

4. **Nominal parameter**
   4-1 Voltage (According to the clients requirement, recommend voltage are DC12V, DC24V, DC36V): DC 12V
   4-2 Resistance (20℃): 40 Ω
   4-3 Current (I=U/R ±5%): 0.3A
   4-4 Power (P=U²/R): 3.6W
   4-5 Duty cycle (ED= Power on duaration/ (Power on duaration+ Power off duaration)*100%): 50%
   4-6 Insulation grade (According to the clients requirement. B or F): B
5. Electrical characteristics

5-1 Attraction force

<table>
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<th>Items</th>
<th>Stroke (mm)</th>
<th>Force (N)</th>
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<tbody>
<tr>
<td>The initial force</td>
<td>4mm</td>
<td>≈0.5N</td>
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<tr>
<td>Retentivity</td>
<td>0mm</td>
<td>≥5N</td>
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</table>

5-2 Insulation resistance
Between coil and frame 100M Ω (DC 500 V in regular temperature/humidity).

5-3 The withstanding voltage
Between coil and frame AC 500 V (50/60 Hz) 1 Min or AC 1000 V (50/60 Hz) 1 Sec (breakdown current 0.15 mA).

5-4 Temperature rise
At the rated voltage of DC 12 V, temperature rise is 65 ℃ Max(power on 1 sec. power off 1 sec).

5-5 Life time
Normally is 50000 times (power on 1 sec. power off 1 sec).

5-6 Lead strength
When it is loaded 1 kgf (30 sec), broken is not allowed.

5-7 Operation temperature and humidity
-5 ℃ ~ 60 ℃, 45 %RH ~ 85 %RH.

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</table>
Client Name:  
Part Number:  TAU0730TM-14

6. Standard code

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<th>T</th>
<th>A</th>
<th>U</th>
<th>0730</th>
<th>TM</th>
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Chaocheng code

Dimension

Push type

Resistance

Voltage

7. Others

7-1 If the product specification or manufacturing method need to make changes, the parties shall negotiate to determine its position, expected result and change effect. The Technical Specification should be promptly update relatively.

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