Motorized Cylinders

EZHC Series

EZHC4

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Incremental Type</th>
<th>Absolute Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EZHC4A-□.I</td>
<td>EZHC4A-□.MI</td>
</tr>
<tr>
<td></td>
<td>EZHC4A-□.A</td>
<td>EZHC4A-□.MA</td>
</tr>
</tbody>
</table>

Motor Type
Stepping Motor with Built-in Rotor-Position Sensor

Drive Method
Ball Screw

Electromagnetic Brake
Not equipped

Speed Range
~400

Max. Transportable Mass
Horizontal Direction *
~600

Max. Acceleration
Horizontal Direction
6.5

Max. Thrust Force
N kgf
65 6.5 55 5.5 65 6.5 55 5.5

Push Force
N kgf
65 6.5 (Speed: 6 mm/s or less)

Repetitive Positioning Accuracy
mm ±0.02

Resolution
mm 0.01

Lead
mm 12

Stroke
50, 100, 200, 300

Cylinder Mass
Figure in the parentheses shows the mass of the model with electromagnetic brake.
kg

Ambient Temperature
°C 0~+40 (Nonfreezing)

General Specifications

Insulation Resistance
100 MΩ minimum when measured by a DC 500 V megger between the following places.

- Windings — Case
- Case — Windings of electromagnetic brake

Dielectric Strength
Sufficient to withstand the following for one minute.

- Windings — Case
- Case — Windings of electromagnetic brake

Controller Model
EZMC13I-A

Cylinder/Controller Combinations

<table>
<thead>
<tr>
<th>Type</th>
<th>Electromagnetic Brake</th>
<th>Model</th>
<th>Cylinder Model</th>
<th>Controller Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incremental Type</td>
<td>Not equipped</td>
<td>EZHC4A-□.I</td>
<td>EZHC4A-□.MI</td>
<td>EZMC13I-A</td>
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<tr>
<td>Absolute Type</td>
<td>Equipped</td>
<td>EZHC4A-□.A</td>
<td>EZHC4A-□.MA</td>
<td>EZMC13A-A</td>
</tr>
</tbody>
</table>

Push Force

Push force can be set through "Push current setting" in the program mode.

Notes:
- The above value is a reference, not guaranteed.
- When the cylinder is used in a vertical direction, an external force calculated by multiplying the weight of the carried object by the rate of gravitational acceleration is applied. Therefore, the cylinder push force must be set so as to accommodate this external force. Measure the push force using an actual load, and set an appropriate push current.

Cylinder Mass

<table>
<thead>
<tr>
<th>Stroke</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>1.7 (1.9)</td>
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<tr>
<td>100</td>
<td>2.0 (2.2)</td>
</tr>
<tr>
<td>200</td>
<td>2.5 (2.7)</td>
</tr>
<tr>
<td>300</td>
<td>3.0 (3.2)</td>
</tr>
</tbody>
</table>

*In a horizontal direction, the value cannot be shown because it varies by frictional resistance of the sliding surface.

See page 54 for the specification and dimensions of the controller.

The above value is a reference, not guaranteed.

The box (□) in the model name and cylinder model name represents the code for stroke length.
### Dimensions  unit: mm

<table>
<thead>
<tr>
<th>Cylinder Model</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
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</thead>
<tbody>
<tr>
<td>EZHC4A-05</td>
<td>270.5</td>
<td>130</td>
<td>104</td>
<td>50</td>
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<tr>
<td>EZHC4A-05M</td>
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<td>EZHC4A-10</td>
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<td>154</td>
<td>100</td>
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<td>EZHC4A-10M</td>
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<td>254</td>
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<tr>
<td>EZHC4A-20M</td>
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<td>300</td>
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<tr>
<td>EZHC4A-30M</td>
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<td>160</td>
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