LINEAR ELECTRIC ACTUATOR LEA3

DC motor up to 1000N

COMPACT    RELIABLE    QUIET    EFFICIENT
Product Data Sheet

Actuator
LEA3

Features

◆ LEA3 features a compact design which is suitable for various applications that require limited installation space, such as window opener and adjustable car driver seat. A quiet version, LEA3Q, is available for applications that require compact size and quiet operation.
◆ Main applications: Industrial, homecare, furniture
◆ Input voltage: 24V DC / 12V DC
◆ Max. load: 1200N (push/pull)
◆ Max. current: 3.5 A @ 12V DC
◆ Max. speed: 44 mm/sec @ no load
◆ Stroke: 50~300 mm (other strokes are available)
◆ Duty cycle: 25% or 1 min continuous operation in 4 min.
◆ IP protection level: IP65
◆ Color: Aluminum grey
◆ Certified: EN 55014-1

EN55014-2
◆ Noise level: ≤70dB (Normal version) / ≤55dB (Quiet version)
◆ Preset limit switches

* Optional Potentiometer feedback available.
**Performance Data**

**LEA3**

**Speed vs Load**

**Current vs Load**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Push/Pull Max. (N)</th>
<th>Speed (mm/s)</th>
<th>Current (A)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No load</td>
<td>Full load</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12V</td>
<td>24V</td>
</tr>
<tr>
<td>LEA3-XX-05-XXX</td>
<td>150</td>
<td>43.9</td>
<td>40.0</td>
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<tr>
<td>LEA3-XX-10-XXX</td>
<td>250</td>
<td>27.6</td>
<td>26.0</td>
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<tr>
<td>LEA3-XX-20-XXX</td>
<td>500</td>
<td>14.6</td>
<td>13.5</td>
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<tr>
<td>LEA3-XX-30-XXX</td>
<td>800</td>
<td>9.5</td>
<td>9.1</td>
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<td>LEA3-XX-40-XXX</td>
<td>1000</td>
<td>7.0</td>
<td>6.5</td>
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</tbody>
</table>

**Accessories:**

- Tube Clamp
- Rear Clevis Mounting Bracket (2 type)
**Dimensions**

**Standard Type**

<table>
<thead>
<tr>
<th>Stroke (mm)</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>158</td>
<td>209</td>
<td>260</td>
<td>311</td>
<td>362</td>
<td>413</td>
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<tr>
<td>B</td>
<td>208</td>
<td>309</td>
<td>410</td>
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<td>612</td>
<td>713</td>
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<td>A</td>
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<td>250</td>
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<td>350</td>
<td>451</td>
<td>552</td>
<td>653</td>
<td>754</td>
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*Unit: mm A: Retracted Length B: Extended Length Stroke = B - A*

**POT Type**

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<td>246</td>
<td>297</td>
<td>348</td>
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<td>245</td>
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<td>548</td>
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<td>750</td>
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*Unit: mm A: Retracted Length B: Extended Length Stroke = B - A*

**Hall Sensor Type**

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*Unit: mm A: Retracted Length B: Extended Length Stroke = B - A*
Tube Clamp, P/N LEA3CLAMP

Rear Clevis Bracket Short, P/N LEA3FOOT1

Rear Clevis Bracket Long, P/N LEA3FOOT2

Drawing available on request
Ordering Key: LEA3 -

**Input Voltage**
12: 12V DC  
24: 24V DC

**Gear Ratio**
05: 5:1  
10: 10:1  
20: 20:1  
30: 30:1  
40: 40:1

**Screw Thread**
A = Acme

**Stroke**
050: 50mm  
100: 100mm  
150: 150mm  
200: 200mm  
250: 250mm  
300: 300mm

**Option**
IP65: Sealed IP65 standard
Mounting brackets: Order separately
H: Integral hall sensors
POT: Potentiometer kit included

**Custom Code**
If required
Also Available

‘IJ2’ SERIES INDUSTRIAL ACTUATOR

STANDARD FEATURES

* Size 6 phase AC or 12/24V DC motors
* Economical
* Up to 540kg dynamic capacity
* Self aligning rod end
* Weather resistant TENV motors, approx IP54
* Acetal acme screw nut
* Individually adjustable top and bottom limit switches
* Strokes to 610mm
* Quiet operation
* 1200kg static capacity
* In-built capacitor for AC motors
* Corrosion resistant powder coated
* Self-locking acme screw
* Precision ball thrust bearings
* 20:1 Gear ratio
* Fully repairable

OPTIONAL FEATURES

* Bellows boot rod protection
* Double safety nut on screw shaft
* Bronze acme screw nut
* Travelling nut design
* Tube mounting hardware (2 styles)
* Optional screw thread leads
* Screw jack baseplate mount
* Silicone sealed motors
* Keyed anti-rotating rod

APPLICATIONS

Agricultural Equipment: Silage shutes, conveyors, transmission shifter, tractor accessory lifts, belt tensioner, spray boom operator, automatic gate opener

Industrial Equipment: Belt speed and tension controls, flue and draft controls, table lifts, hatch covers, ventilator controls, valve actuators, window operators, clamping, damper controls, variable pump controllers, fluid coupling controllers

Medical Equipment: Hospital beds, dental chairs, examination tables, invalid lifts, patient hand lifters

Materials Handling Equipment: Container tippers, dump shute doors, elevators, barrel lift, conveyor gate diverter

Office Equipment: Computer terminal desks, chairs, drafting tables
Other Motion Tech Products

Servomech

Haydon Kerk

Kollmorgen

Zettlex

LinMot

Distributors for Australia & New Zealand
MOTION TECHNOLOGIES PTY LTD
24/22-30 Northumberland Road
Caringbah NSW 2229 Australia
Phone: (02) 9524 4782
Fax: (02) 9525 3878
sales@motiontech.com.au
www.motiontech.com.au
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