

Datasheet

## RS Pro 100N Electric Linear Actuator, 12V dc, 61mm stroke

RS Stock No: **454-1000**



### Product Details

RS Pro electric linear actuator delivers a maximum stroke length of 61 mm using 12 V dc input voltage. This digital actuator withstands loads up to 100 N. It provides high resolution precision movements.

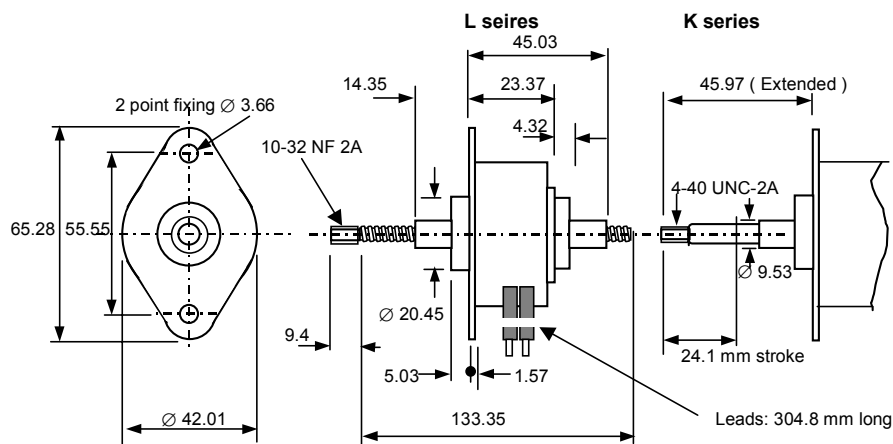
### Features and Benefits

- High resolution digital linear actuators
- 4-phase unipolar
- Integrated leadscrew, attached to item to be positioned

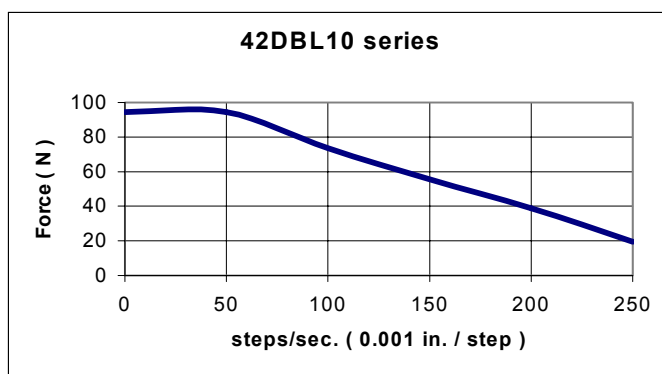
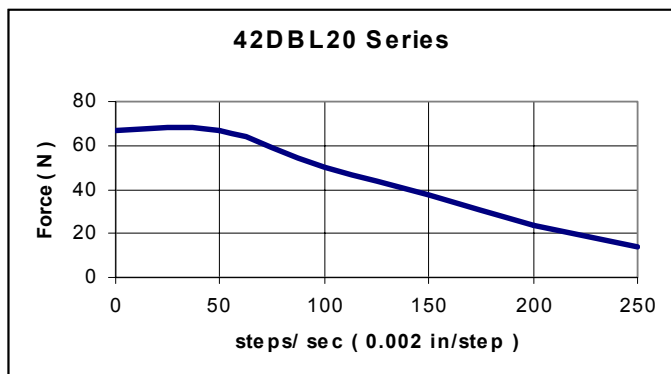
**Specifications:**

|                       |                         |
|-----------------------|-------------------------|
| Actuation Type        | Stepper                 |
| Motor Technology      | Stepper Motor           |
| Input Voltage         | 12 V dc                 |
| Maximum Load          | 100 N                   |
| Maximum Stroke Length | 61 mm                   |
| Motor Power           | 10 W                    |
| Coil Type             | Unipolar                |
| Dimensions            | 133.35 x 42.01 mm       |
| Operating Temperature | -20 to +70°C            |
| Steps Per Revolution  | 300/s                   |
| Type                  | Digital Linear Actuator |

Dimensions mm:



Performance:



Specification for uni-polar types

| Model       | Nominal Voltage Vdc | Linear travel per step ins. ( mm ) | Maximum travel mm | Maximum Force N | Min. de-energised holding Force N | Nearest equivalent in 92200 series |
|-------------|---------------------|------------------------------------|-------------------|-----------------|-----------------------------------|------------------------------------|
| 42DBL20C1U- | 5                   | 0.002 ( 0.0508 )                   | 24.1 - K series   | 72.3            | 83.4N                             | 92221-P1                           |
| 42DBL20C2U- | 12                  |                                    | 61 - L series     |                 |                                   |                                    |
| 42DBL10C1U- | 5                   | 0.001 ( 0.0254 )                   | 24.1 - K series   | 100             | 111.2                             | 92211-P1                           |
| 42DBL10C2U- | 12                  |                                    | 61 - L series     |                 |                                   |                                    |

Insert 'K' for keyway version    Insert 'L' for leadscrew version

Electrical Characteristic:

| Coil Data:           | 1U ( 5V ) | 2U ( 12V ) |
|----------------------|-----------|------------|
| Resistance per phase | 5 Ohm     | 28.8 Ohm   |
| Inductance per phase | 3.7 mH    | 19.7 mH    |