

## Rugged Duty Actuator AC Motor Ball Screw



**Up to 2,000 lbs. (8900 N) Rated Load**  
**Up to 2.1 in. (53.34 mm)/sec. Travel Speed**

The K2x model provides the highest load rating in its class. This model incorporates all of the base K2 features with a ball nut screw for a 2,000 lb. (8900 N) load capability within a compact package size. The K2x includes a bi-directional wrap spring brake for load holding capability. These units are well suited for the most demanding applications where an alternative to hydraulic or air cylinders is needed or where hydraulic power sources are not available.

Combining the K2x actuator with BTc control functionality results in precision actuator control at a fraction of the cost of more complicated servo actuator systems. See Controls Section for more information on BTc controls.

**Now Available Optional Adjustable Limit Switch** These easy to use adjustable switches are mounted in a channel on the cover tube with custom cap for protection. They are easily moved to enable the end-user the flexibility of setting the stroke length at any position within the full stroke capability.

### Features

- **Protective coatings** and O-ring seals throughout
- **Efficient in-line ball screw system**
- **Integral load holding brake**
- **Ball detent overload clutch**
- **Stroke lengths** 4 to 24 inches (100 to 600 millimeters)
- **Load capacities** up to 2,000 pounds (8900 N)
- **Speeds up to** 2.1 inches (53.34 millimeters)/sec. travel
- **Thermal overload** incorporated into the motor
- **Heavy wall construction**
- **Double ball bearing motors**
- **Heat treated gears**
- **Rugged extension rod** bearing support
- **Custom mounting** options available
- **Limit switches** offered only in the adjustable version (EP1.x)

### Typical Applications

- Engine Lifts
- Tables
- Indoor Applications
- Machine Tools
- Egg Rotation



Scan to watch!

**How to Adjust the Limit Switches for a K2 or K2X Actuator with External or EP Limit Switches**  
<https://p.widencdn.net/imzc9v>

### Load/Current/Speed/Duty Cycle

- Maximum Static Rating: 3,000 lbs. (13345 N) Static (in-line load)
  - Refer to performance chart for load/current/speed capabilities
  - Stroke Length Tolerance: +/- .06" (1.52 mm)
  - Motor is protected with auto reset breaker inside motor housing (temperature/current/time dependent)
  - Overload clutch setting: +25% over rated dynamic load
  - Duty cycle is time/temperature/load dependent, suggested guidelines are:
    - 50% max on-time/50% off-time for loads up to 50% of capability
    - 25% max on-time/75% off-time for loads between 50%-80% of capability
    - 10% max on-time/90% off-time for loads between 80%-100% of capability
- (Load/stroke profiles will allow some adjustment variation from these guidelines.)

### Operating Environment

- Ambient temp range: -20° F to +150° F (-29° C to +65° C), -40° F to +176° F (-40° C to +80° C) Upon Request.
- Weather resistant enclosure & seals (IP 54 capable, 250 hour salt spray, 500 hour for paint)
- Normal operating voltage: 110-240 VAC

### Control/Connections

- 14 gauge stranded lead wires-UL style 1230 w/PVC insulation Class F 105° C
- Use momentary contact switch in powering unit for extend/retract operation. (ON)-OFF-(ON) SPDT

## Performance Graphs Imperial Measurements\*

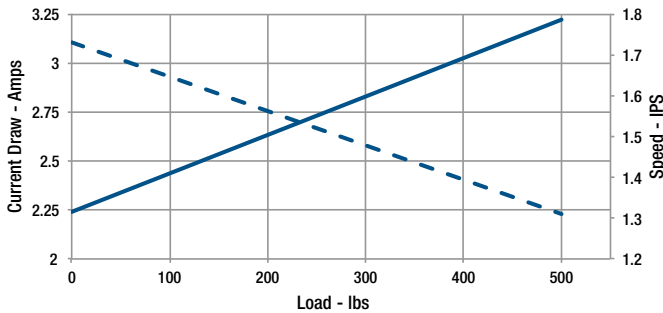
\*Performance Chart Measurements are Nominal



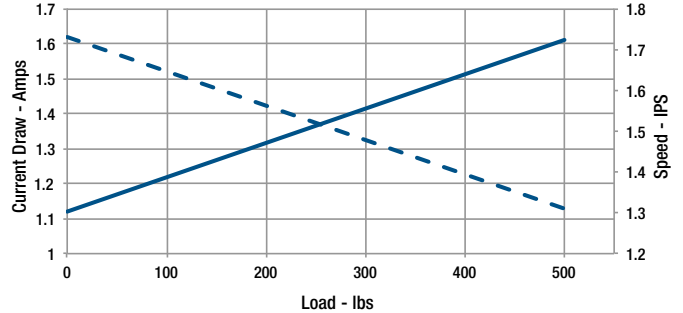
### Load Capacity 500 lbs.

For Metric Measurements, see page 42.

**K2xG05-115VAC**



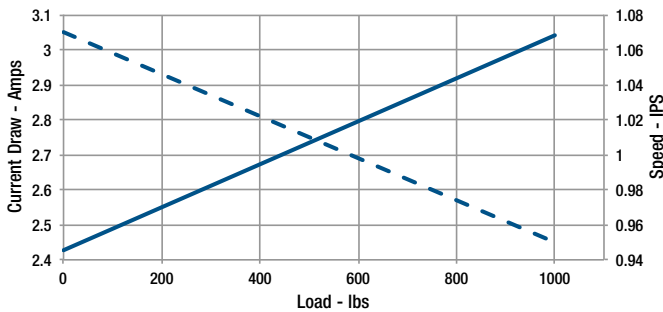
**K2xG05-230VAC**



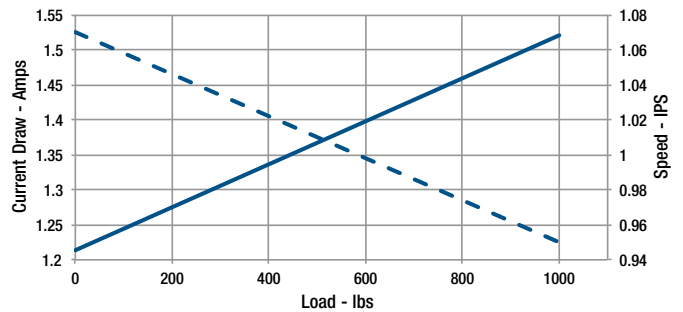
### Load Capacity 1000 lbs.

For Metric Measurements, see page 42.

**K2xG10-115VAC**



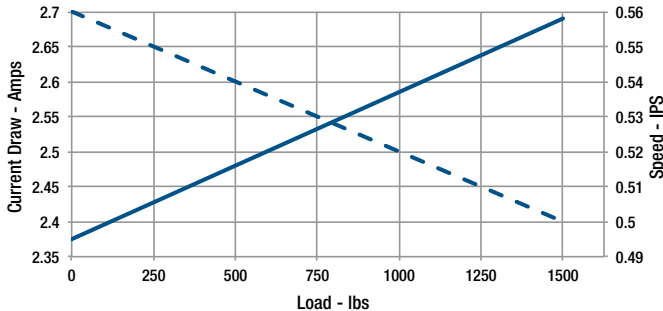
**K2xG10-230VAC**



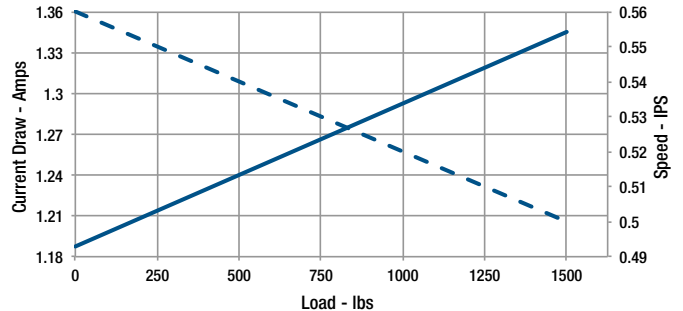
### Load Capacity 1500 lbs.

For Metric Measurements, see page 42.

**K2xG20-115VAC**



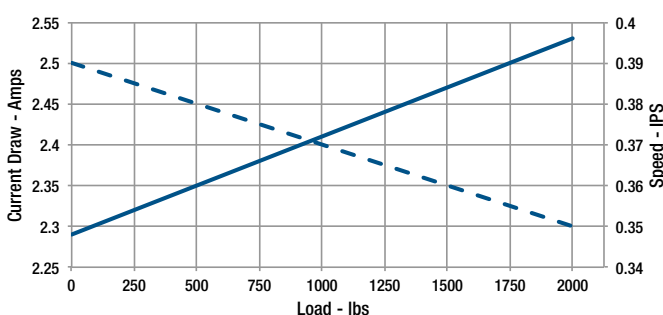
**K2xG20-230VAC**



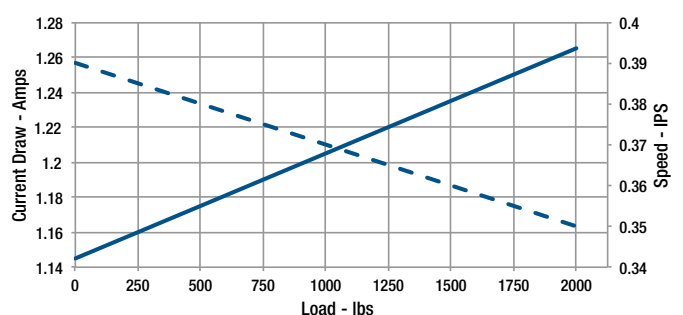
### Load Capacity 2000 lbs.

For Metric Measurements, see page 42.

**K2xG30-115VAC**



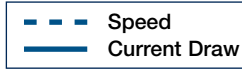
**K2xG30-230VAC**



# B-Track K2xAc

## Performance Graphs Metric Measurements\*

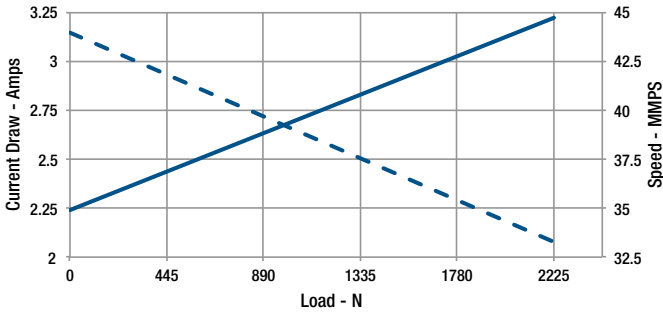
\*Performance Chart Measurements are Nominal



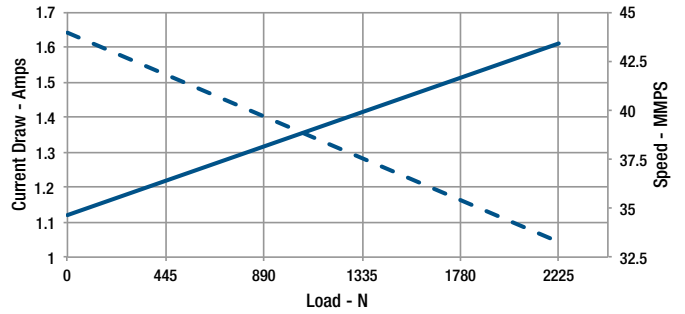
### Load Capacity 2225 N

For Imperial Measurements, see page 41.

K2xG05-115VAc



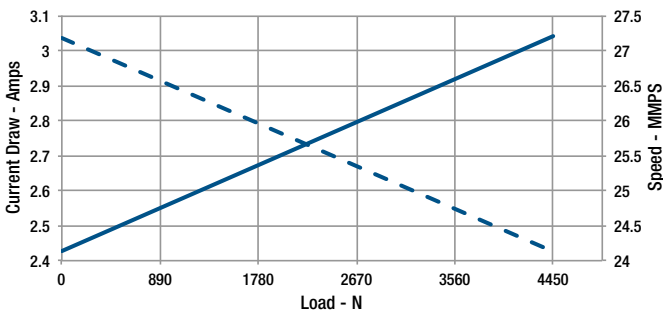
K2xG05-230VAc



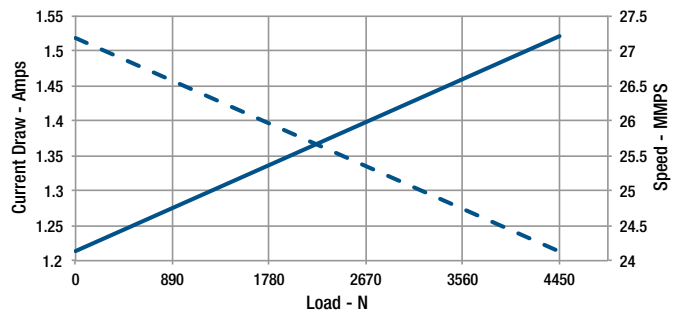
### Load Capacity 4450 N

For Imperial Measurements, see page 41.

K2xG10-115VAc



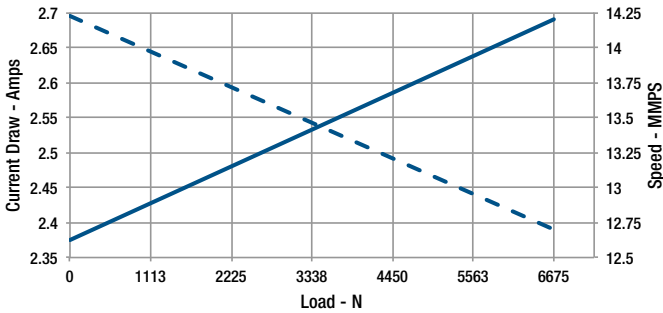
K2xG10-230VAc



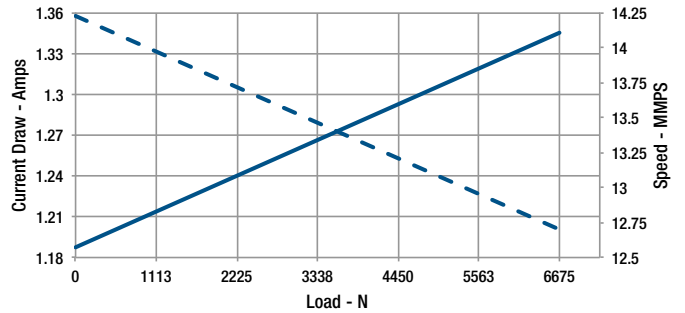
### Load Capacity 6675 N

For Imperial Measurements, see page 41.

K2xG20-115VAc



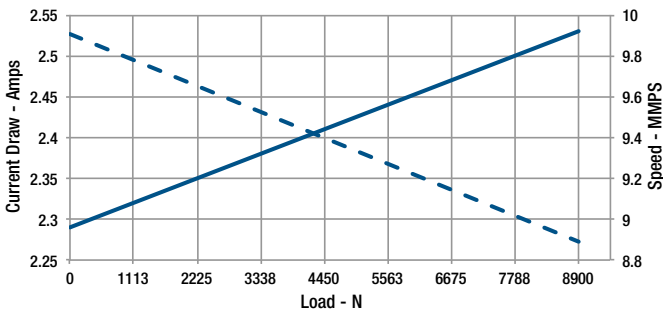
K2xG20-230VAc



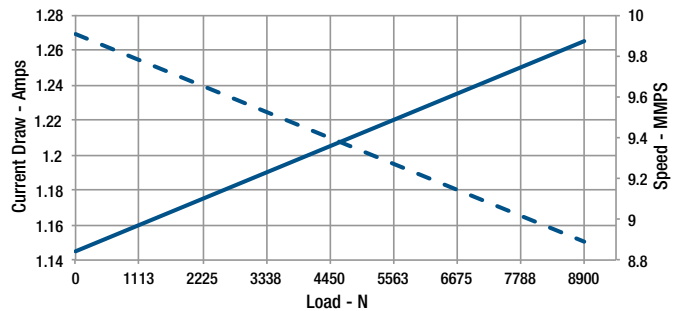
### Load Capacity 8900 N

For Imperial Measurements, see page 41.

K2xG30-115VAc



K2xG30-230VAc



## Dimensions

B-Track K2xAC	Stroke	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
		4	100	6	150	8	200	12	300	18	450	24	600
	A	14.96	380.0	16.97	431.0	18.94	481.1	22.95	582.9	28.94	735.1	34.92	887.0

Note: Special lengths available

