

# B-Track K2

## Rugged Duty Actuator DC Motor Acme Screw



Shown with optional adjustable limit switch feature

**Up to 1,500 lbs. (6672 N) Rated Load**  
**Up to 2.7 in. (68.58 mm)/sec. Travel Speed**

The K2 is the base model in the B-Track family. It incorporates a patented in-line load transfer design which provides high load capability for rugged-duty use, efficient power use, compact package size, excellent corrosion and washdown protection, and high performance synthetic lubrication for life, all at an affordable price.

The K2 uses a solid bronze or Delrin® nut with a rolled hybrid Acme style screw yielding high impact capability and long screw life. Heavy-duty double-ended ball bearing motors, hardened gears, O-ring seals and an extension rod bearing system that provides best in class capabilities.

**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. Just pop the cap off, loosen the set screw and slide the switch into the desired position.

### Features

- **Protective coatings** and O-ring seals throughout
- **Patented in-line load system**
- **Hybrid Acme style nut and screw** design, no brake needed
- **Ball detent overload clutch**
- **Stroke lengths** 2 to 24 inches (50 to 600mm)
- **Load capacities** up to 1500 pounds (6672 N)
- **Speeds up to** 2.7 inches (68.58 millimeters)/sec. travel
- **Thermal overload** incorporated into the motor
- **Heavy wall construction**
- **Double ball bearing motors**
- **Heat treated gears**
- **Rugged extension** rod bearing support
- **Optional 90 vdc motor** for use with SBC-AC control (IP54)
- **Custom mounting** options available

### Typical Applications

- Heavy duty platform and engine lifts
- Deck and implement lifts for tractors and mobile applications
- Table positioning
- Wheelchair and scooter lifts
- Bin and tank cover lifts
- Flow gate open/close



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 (IP69K Static, IP65 capable, 250 hour salt spray, 500 hour for paint)
- Normal operating voltage: 10-16 vdc (Ratings are at 12 vdc Normal.)

### Control/Connections

- 14 gauge stranded lead wires-UL style 1230 w/PVC insulation Class F 105°C
- Lead wires abrasion protected with spiral covering
- Use momentary contact double pole/double throw switch in powering unit for extend/retract operation. (ON)-OFF-(ON) DPDT
- Connectors:
  - Packard 56 series or Delphi Weather-Pack
    - Packard 56 series with 56 series blades (#2984883 & #2962987)
    - Delphi Weather-Pack series (#121015792 & #12010973) Upon Request

## Performance Graphs Imperial Measurements\*

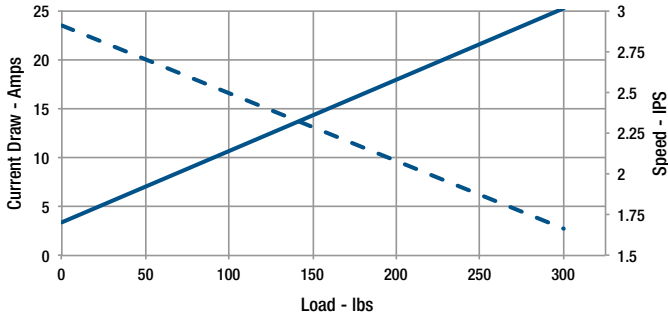
\*Performance Chart Measurements are Nominal



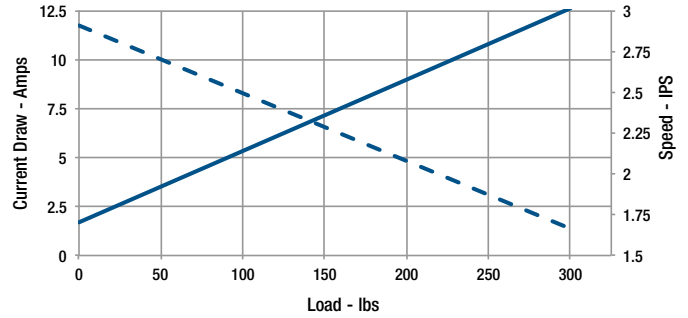
### Load Capacity 300 lbs.

For Metric Measurements, see page 30.

#### K2G05-12VDC



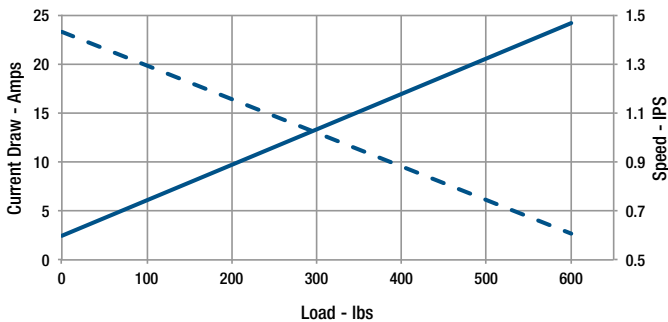
#### K2G05-24VDC



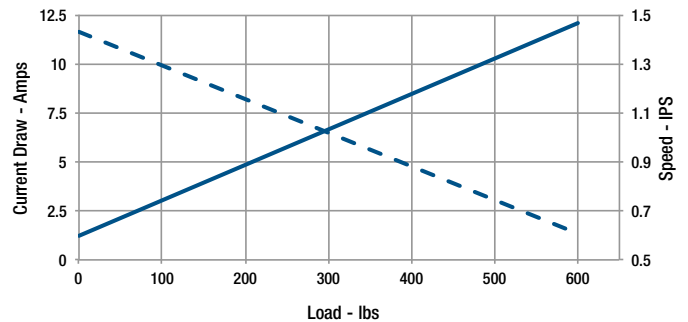
### Load Capacity 600 lbs.

For Metric Measurements, see page 30.

#### K2G10-12VDC



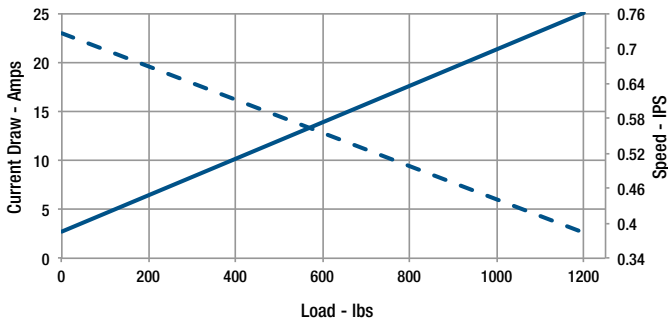
#### K2G10-24VDC



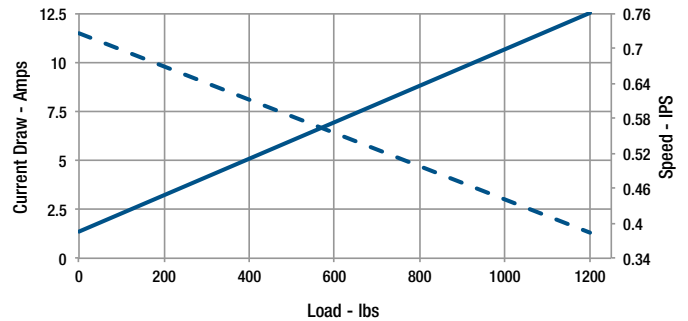
### Load Capacity 1200 lbs.

For Metric Measurements, see page 30.

#### K2G20-12VDC



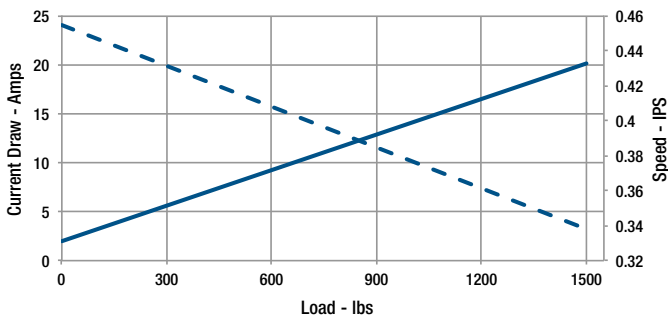
#### K2G20-24VDC



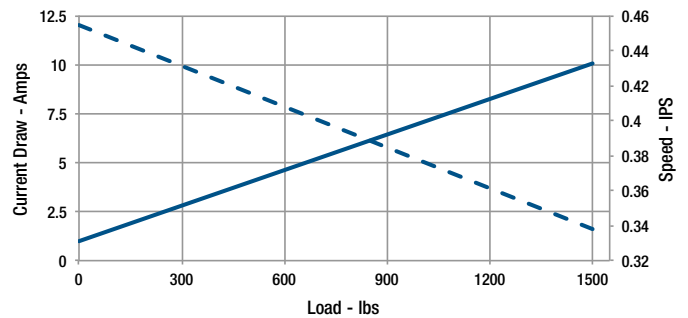
### Load Capacity 1500 lbs.

For Metric Measurements, see page 30.

#### K2G30-12VDC



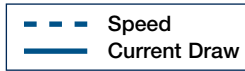
#### K2G30-24VDC



# B-Track K2

## Performance Graphs Metric Measurements\*

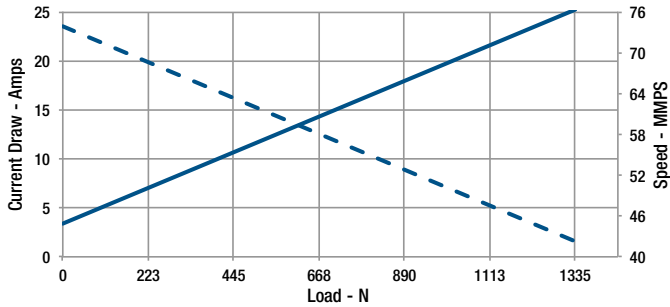
\*Performance Chart Measurements are Nominal



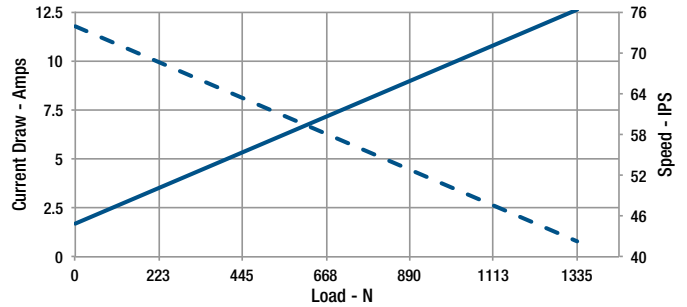
### Load Capacity 1335 N

For Imperial Measurements, see page 29.

#### K2G05-12VDC



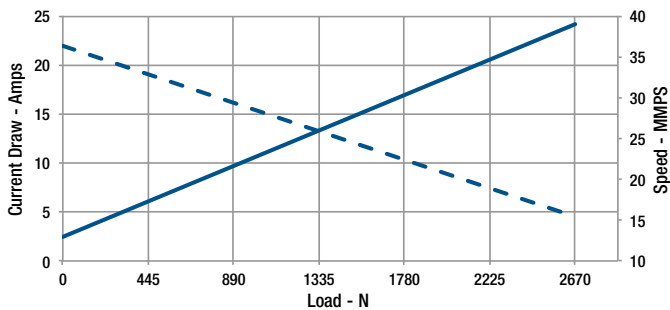
#### K2G05-24VDC



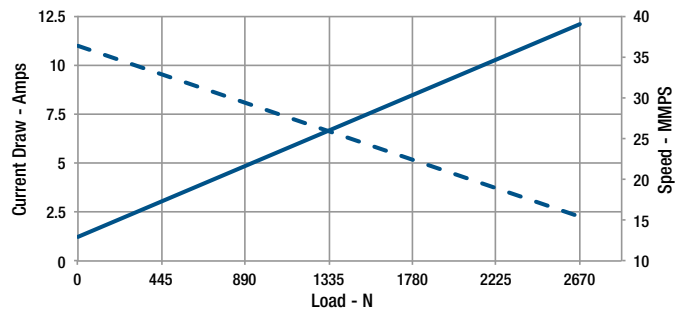
### Load Capacity 2670 N

For Imperial Measurements, see page 29.

#### K2G10-12VDC



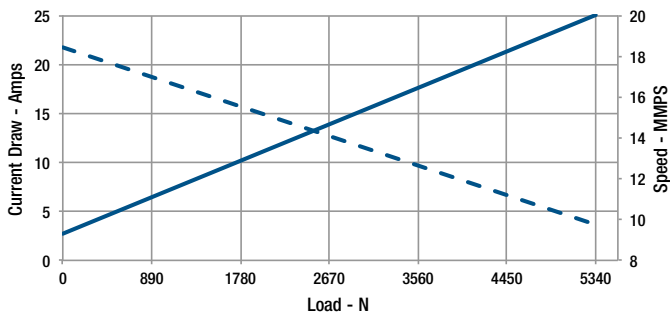
#### K2G10-24VDC



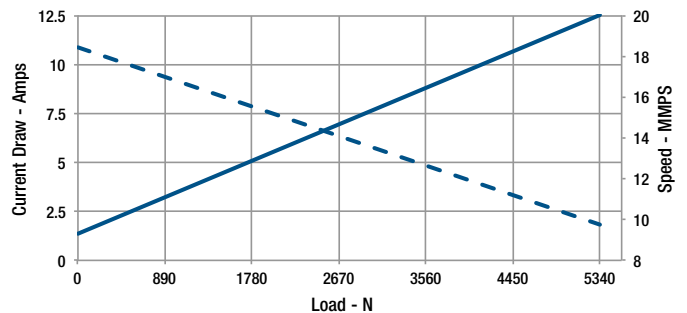
### Load Capacity 5340 N

For Imperial Measurements, see page 29.

#### K2G20-12VDC



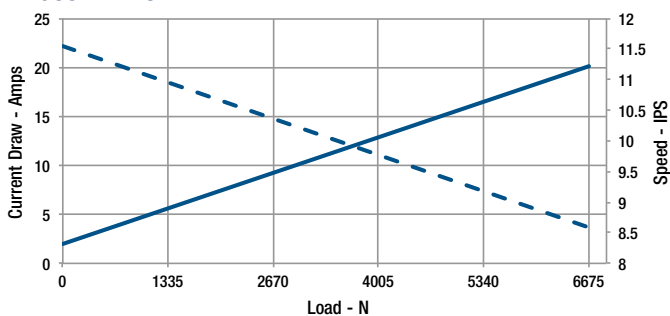
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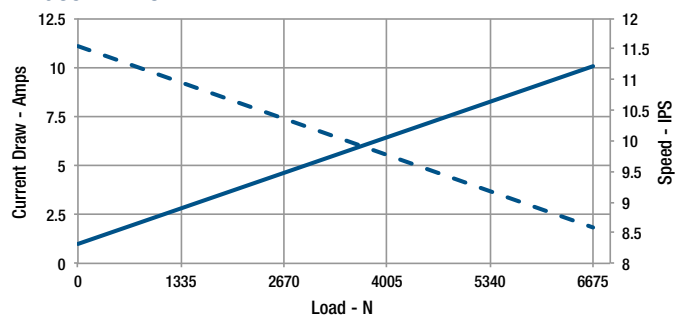
### Load Capacity 6675 N

For Imperial Measurements, see page 29.

#### K2G30-12VDC



#### K2G30-24VDC



## Dimensions

B-Track K2	Stroke	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
		<b>2</b>	<b>51</b>	<b>4</b>	<b>102</b>	<b>6</b>	<b>152</b>	<b>8</b>	<b>203</b>	<b>10</b>	<b>254</b>	<b>12</b>	<b>305</b>
	<b>A</b>	8.32	211.3	10.32	262.1	12.32	312.9	14.32	363.7	16.32	414.5	18.32	465.3

Note: Special lengths available

B-Track K2	Stroke	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
		<b>14</b>	<b>356</b>	<b>16</b>	<b>406</b>	<b>18</b>	<b>457</b>	<b>20</b>	<b>508</b>	<b>22</b>	<b>559</b>	<b>24</b>	<b>610</b>
	<b>A</b>	20.32	516.1	22.32	566.9	24.32	617.7	29.32	744.7	31.32	795.5	33.32	846.3

Note: Special lengths available

