

# B-Track K2vL

## General Duty Actuator DC Motor Acme Screw



**Up to 600 lbs. (2669 N) Rated Load**  
**Up to 2.7 in. (68.58 mm)/sec. Travel Speed**

This value model of the B-track family is well suited for the toughest applications not needing the full load capability of standard K2 models. The K2vL uses a flange bronze bearing configuration for internal load transfer, offering the lowest cost while maintaining the rugged-duty performance capabilities of the B-track family.

K2vL units feature Nitrotec® corrosion protection on end fittings and rods, high performance powder coat paint on cover tubes and gear box covers, providing a totally sealed, weatherproof, and durable finish for years of trouble-free service.

### Features

- **Protective coatings** and O-ring seals throughout
- **Hybrid nut and screw design**, no brake needed
- **Ball detent overload clutch**
- **Stroke lengths** 2 to 12 inches (50 to 300 millimeters)
- **Load capacities** up to 600 pounds (2669 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

### Typical Applications

- Flow gate open/close
- Deck and implement lifts for tractors and mobile applications
- Wheelchair and scooter lifts
- Bin and tank cover lifts
- Remote engine clutch engagement

### 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" (1.52mm)
  - 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

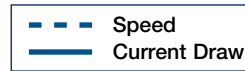
- Ambient temp range: -20° F to +150° F (-29° C to +65° C)
- Weather resistant enclosure & seals (IP69K Static, IP65 capable, 250 hour salt spray, 500 hour for paint)
- Normal operating voltage: 10-16 vdc (Ratings are at 12 vdc Normal.)

### Control/Connections

- 14 gauge stranded lead wires-UL style 1230 w/PVC insulation Class F 105° C
- 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)

## Performance Graphs Imperial Measurements\*

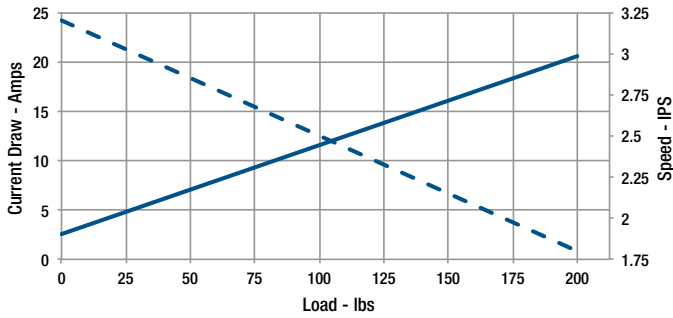
\*Performance Chart Measurements are Nominal



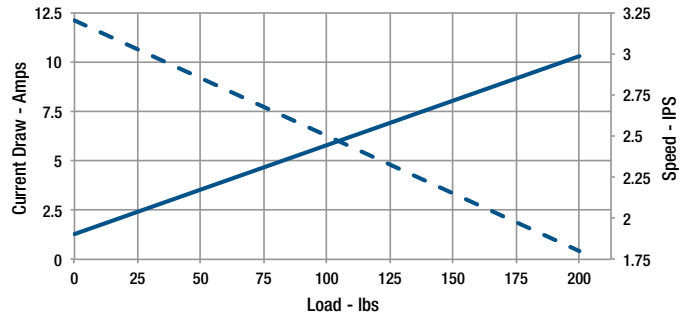
### Load Capacity 200 lbs.

For Metric Measurements, see page 26.

**K2vL.G05-12VDC**



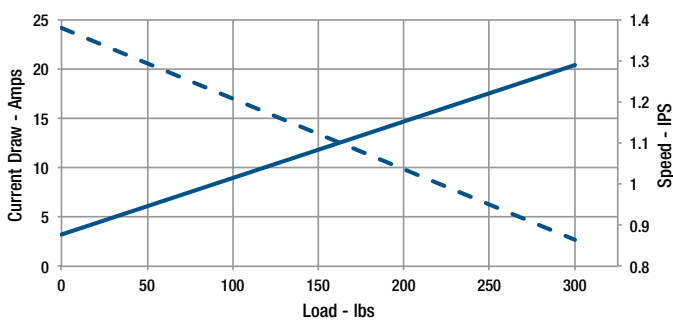
**K2vL.G05-24VDC**



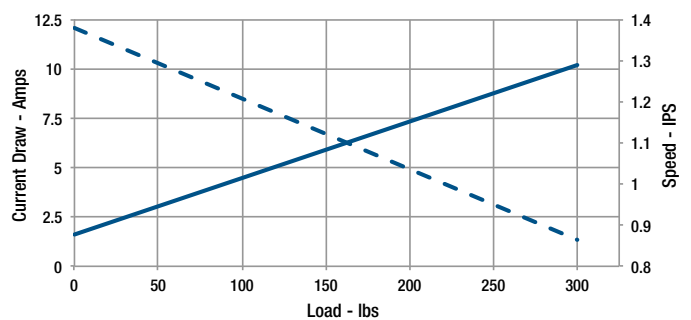
### Load Capacity 300 lbs.

For Metric Measurements, see page 26.

**K2vL.G10-12VDC**



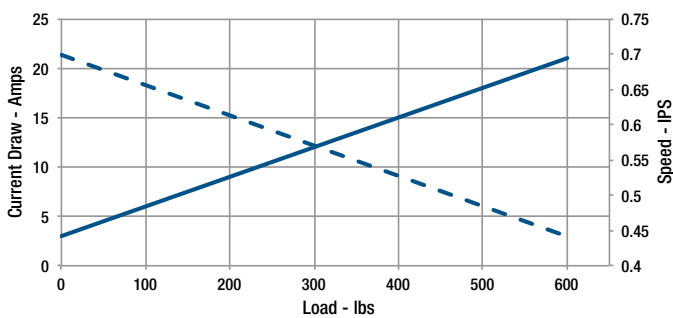
**K2vL.G10-24VDC**



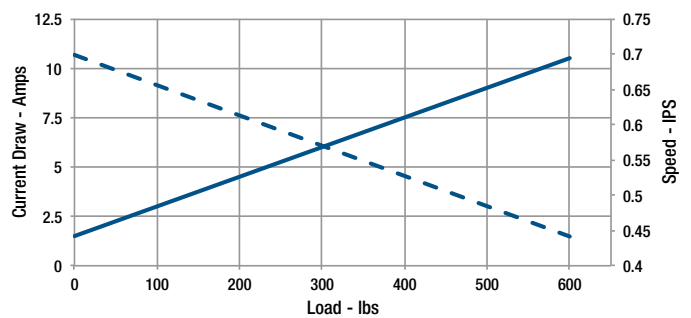
### Load Capacity 600 lbs.

For Metric Measurements, see page 26.

**K2vL.G20-12VDC**



**K2vL.G20-24VDC**



# B-Track K2vL

## Performance Graphs Metric Measurements\*

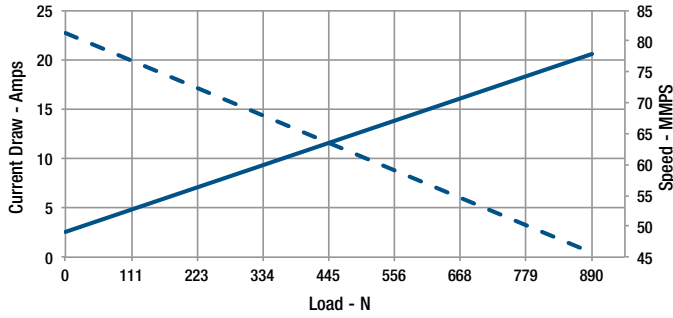
\*Performance Chart Measurements are Nominal



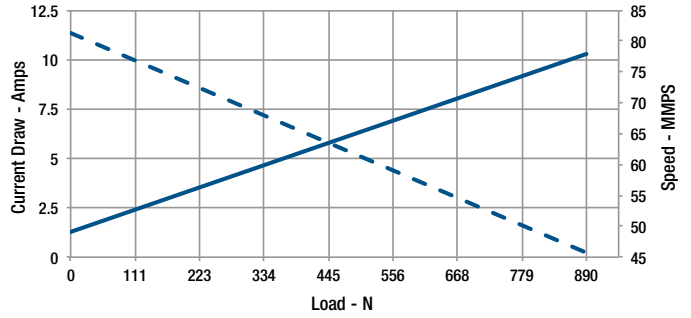
### Load Capacity 890 N

For Imperial Measurements, see page 25.

#### K2vL.G05-12VDC



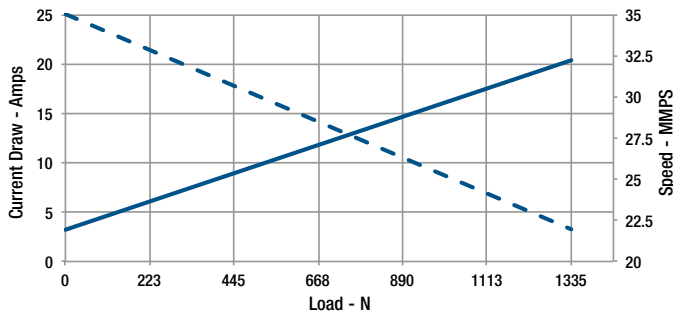
#### K2vL.G05-24VDC



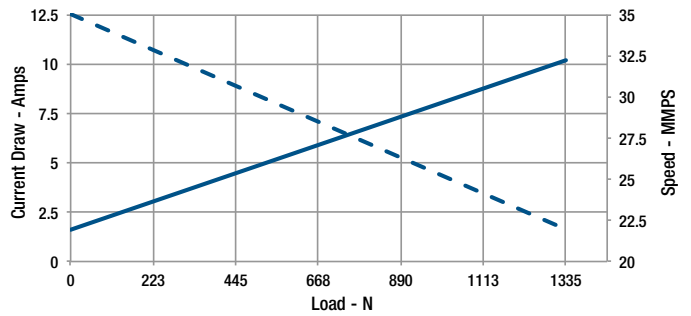
### Load Capacity 1335 N

For Imperial Measurements, see page 25.

#### K2vL.G10-12VDC



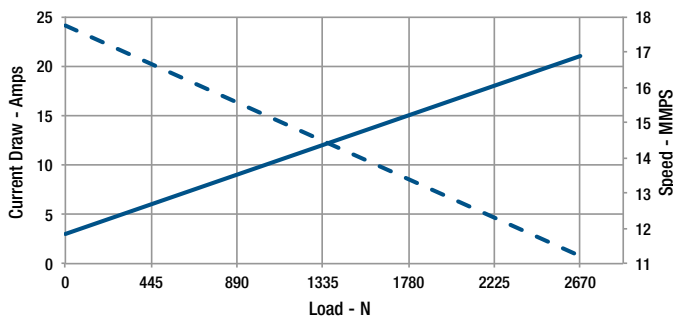
#### K2vL.G10-24VDC



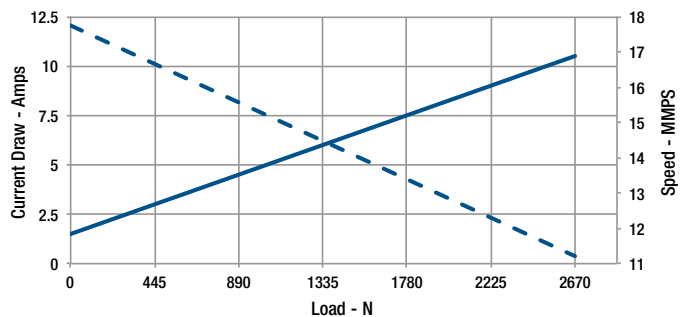
### Load Capacity 2670 N

For Imperial Measurements, see page 25.

#### K2vL.G20-12VDC



#### K2vL.G20-24VDC



## Dimensions

### Dimensions

B-Track K2vL	Stroke	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
		2	51	4	102	6	152	8	203	10	254	12	305
	A	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

