

B-Track | K2RA

Rotary Actuator DC Motor

Up to 140 in-lb Torque Output
Speeds from 250 to 850 RPM



Shown with extended gear box screws for ease of attachment.



Optional Configurations



Features

- Protective coatings and O-ring seals throughout
- Efficient in-line load system
- Ball detent overload clutch
- Speeds up to 850 RPM
- Thermal overload incorporated into the motor
- Heavy wall construction
- Double ball bearing motors and heat treated gears
- Rugged output bearing support
- Customized mounting configurations available
- Optional 24 vdc motor available to provide more speed selections

Typical Applications

- Salt/seed spreaders
- Scooter lift mechanisms
- Spout rotation
- Turntables
- Cable winch

K2RA rotary actuators are motor driven gear boxes and use the base drive design and components of the K2 linear actuator. K2RA models incorporate all of the features of the K2 model providing excellent weatherproofing for outdoor applications. The same long-life motors, hardened gears, corrosion protection, and lubrication are utilized. Several output shaft and mounting configurations are available with the standard configuration shown above.

Load/Current/Speed/Duty Cycle

- Maximum Static Rating: 3000 lbs. Static (in-line load)
 - Refer to performance chart for current/speed capabilities
 - Motor is protected with auto reset breaker inside motor housing (temperature/current/time dependent)
 - Overload clutch setting: match customer requirements
 - 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/RPM profiles will allow some adjustment variation from these guidelines.)

Operating Environment

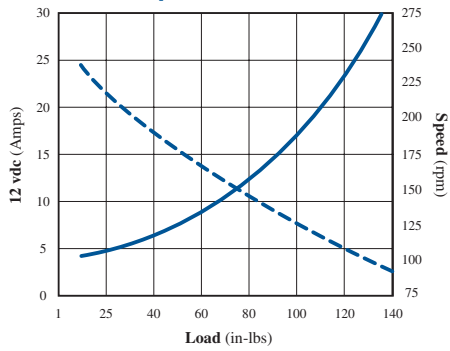
- Ambient temp range: -30°F to 150°F
- Weather resistant enclosure & seals (IP 65 capable, 250 hour salt spray, 500 hour for paint)
- Normal operating voltage: 12, 24, 36, 48 vdc (Ratings are at 12 vdc Normal.)

Control/Connections

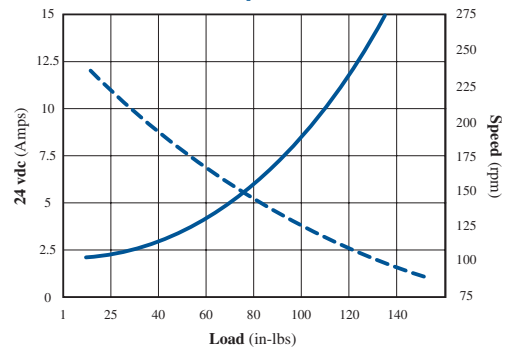
- 14 gauge stranded lead wires - SAE J1128 SXL cross linked polyethylene insulation Class F 257°F
- Lead wires abrasion protected with braided covering
- Use momentary contact double pole/double throw switch in powering unit. (ON)-OFF-(ON) DPDT
- Connectors:
 - Packard 56 series or Delphi Weather-Pack
 - Packard 56 series with 56 series blades (#2984883 & #2962987)
 - Delphi Weather-Pack series (#121015792 & #12010973)

Performance Curves

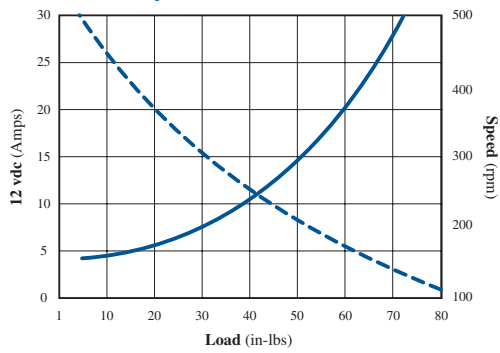
K2RA20 Speed & Load @ 12 VDC



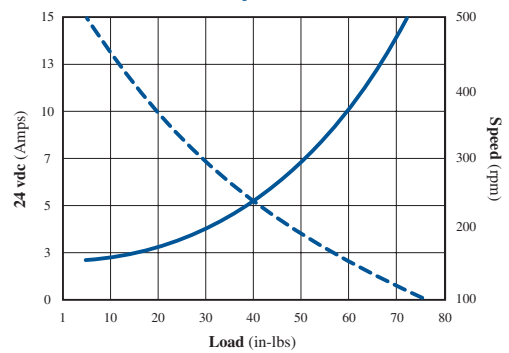
K2RA20 Load & Speed @ 24 VDC



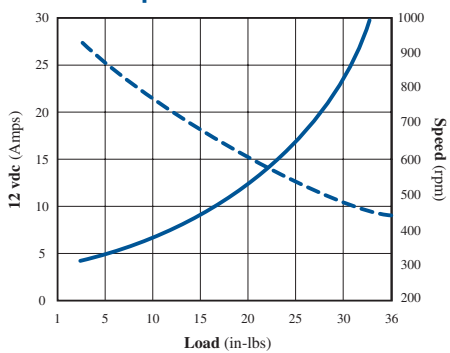
K2RA10 Speed & Load @ 12 VDC



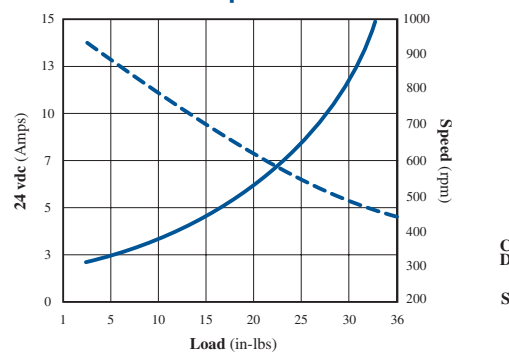
K2RA10 Load & Speed @ 24 VDC



K2RA5 Speed & Load @ 12 VDC



K2RA5 Load & Speed @ 24 VDC



Current Draw ———
Speed - - - - -

Dimensions

