

Electrak 2

12 Vdc - load up to 250 lbf



» Ordering Key - see page 56

» Glossary - see page 61

» Electric Wiring Diagram - see page 40

Standard Features and Benefits

- Economical and robust actuator for medium loads
- Stainless steel extension tube
- Self-locking acme screw drive system
- Overload clutch for mid and end of stroke protection
- Motor with thermal switch
- Maintenance free

General Specifications

Parameter	Electrak 2
Screw type	acme
Internally restrained	no
Manual override	no, optional
Dynamic braking	no
Holding brake	no, self-locking
End of stroke protection	overload clutch
Mid stroke protection	overload clutch
Motor protection	auto reset thermal switch
Motor connection	flying leads and connector
Motor connector	Packard Electric 56 series 2984883 with terminal 2962987. Mating connector: 2973781 with terminal 2962573 (p/n 9100-448-001)
Certificates	CE optional*
Options	<ul style="list-style-type: none"> • potentiometer* • manual override* • limit switches*

* Contact customer support

Performance Specifications

Parameter	Electrak 2
Maximum load, dynamic / static [lbf]	250 / 1000
Speed, at no load / at maximum load [in/sec]	
D12-10A5 (high speed)	1.20 / 1.00
D12-20A5 (standard speed)	0.61 / 0.55
Available input voltages [Vdc]	12
Standard stroke lengths [in]	4, 8, 12, 18*, 24*
Operating temperature limits [°F]	-15 – +150
Full load duty cycle @ 77 °F [%]	25
End play, maximum [in]	0.08
Restraining torque [lbf-in]	65
Lead cross section [AWG]	14
Lead length [in]	7.5
Protection class	IP66

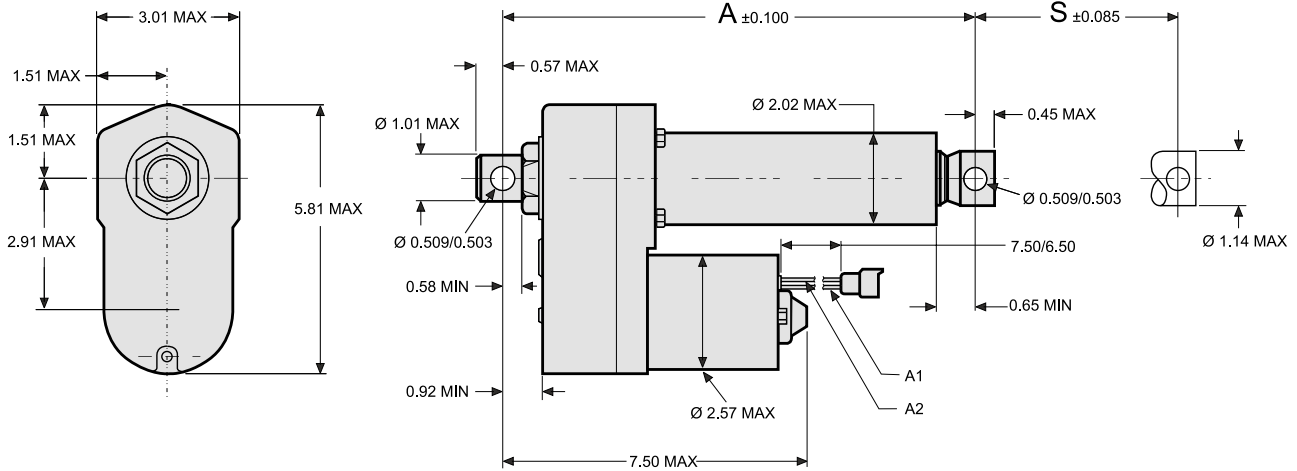
* Contact customer support

Compatible Controls

Control model	See page
DPDT switch	46

Electrak 2

12 Vdc - load up to 250 lbf

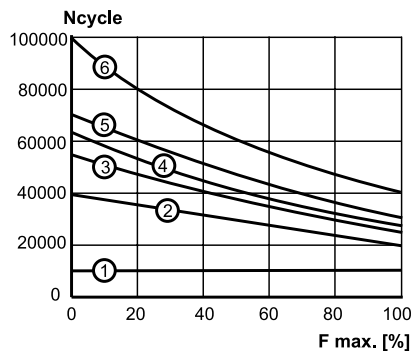


S: stroke
 A: retracted length
 A1: yellow lead
 A2: red lead

Stroke (S)	[inch]	4	8	12
Retracted length (A)	[inch]	10.3	14.3	18.3
Weight	[lb]	10.0	10.7	11.4

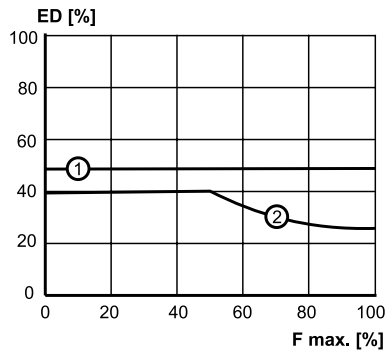
Performance Diagrams

Life vs. Load



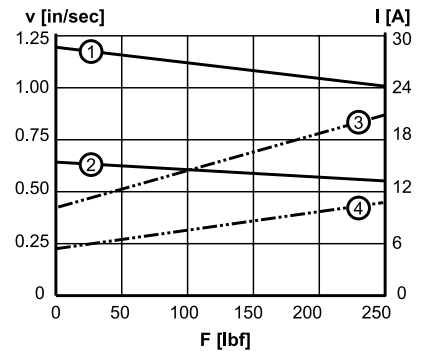
Ncycle: life in number of cycles
 (one cycle = extend and retract)
 F max: percent of maximum rated load
 1: all models using the clutch at the end of stroke
 2: standard speed model, 12 inch stroke
 3: standard speed model, 8 inch stroke
 4: high speed model, 12 inch stroke
 5: high speed model, 8 inch stroke and standard speed model, 4 inch stroke
 6: high speed model, 4 inch stroke

Duty Cycle vs. Load



ED: duty cycle in percent at 77° F
 F max: percent of maximum rated load
 1: standard speed model
 2: high speed model

Speed and Current vs. Load



V: speed I: current F: load
 1: speed high speed model
 2: speed standard speed model
 3: current high speed model
 4: current standard speed model