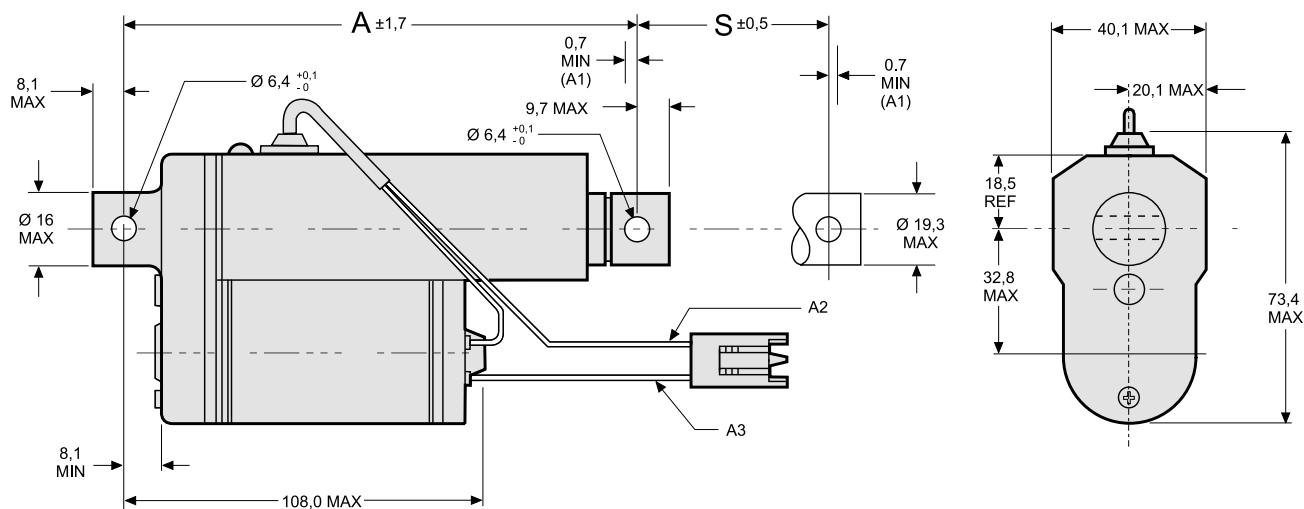


Electrak® 1

12, 24 and 36 Vdc - load up to 340 N



S: stroke

A: retracted length

A1: installation must include at least this much coast beyond limit switch shut off

A2: red lead

A3: yellow lead

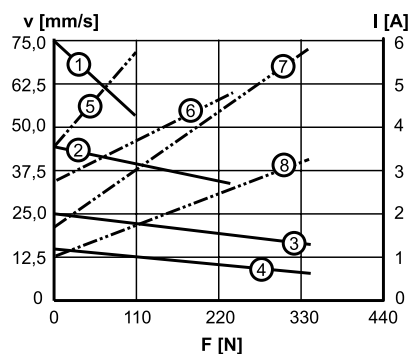
Ordering stroke	[inch]	1	2	3	4	5	6
Electrical stroke (S) *	[mm (inch)]	20,8 (0,82)	46,2 (1,82)	71,6 (2,82)	97,0 (3,82)	122,4 (4,82)	147,8 (5,82)
Retracted length (A)	[mm]	134,5	159,9	185,3	210,7	236,1	261,5
Weight	[kg]	0,52	0,54	0,60	0,63	0,66	0,68

* The electrical stroke is the stroke when the internal limit switches switch off the power to the motor. The installation then must allow the extension tube to coast at least 0,7 mm beyond that position before it becomes mechanically blocked to travel any further (distance A1). If there is no mechanical block the extension tube coasting distance will depend on the load, no load means the longest coasting distance while the distance becomes shorter as the load becomes higher. The exact coasting distance depends on the load, in which direction the load acts (push or pull), the mounting orientation of the actuator and any added friction to the system by guides or other installations and has to be determined on a case to case basis.

Performance Diagrams

Speed and Current vs. Load

12 Vdc

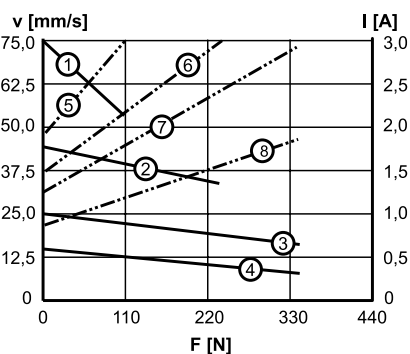


V: speed I: current F: load

- 1: speed S12-09A04
- 2: speed S12-09A08
- 3: speed S12-17A08
- 4: speed S12-17A16
- 5: current S12-09A04
- 6: current S12-09A08
- 7: current S12-17A08
- 8: current S12-17A16

Speed and Current vs. Load

24 Vdc

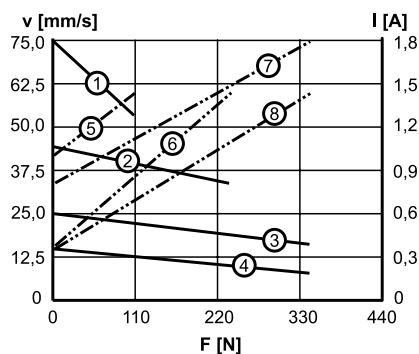


V: speed I: current F: load

- 1: speed S24-09A04
- 2: speed S24-09A08
- 3: speed S24-17A08
- 4: speed S24-17A16
- 5: current S24-09A04
- 6: current S24-09A08
- 7: current S24-17A08
- 8: current S24-17A16

Speed and Current vs. Load

36 Vdc

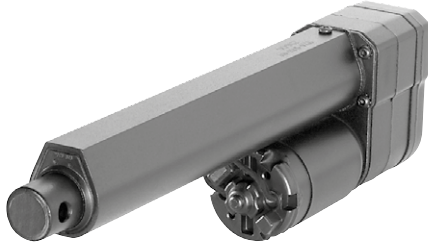


V: speed I: current F: load

- 1: speed S36-09A04
- 2: speed S36-09A08
- 3: speed S36-17A08
- 4: speed S36-17A16
- 5: current S36-09A04
- 6: current S36-09A08
- 7: current S36-17A08
- 8: current S36-17A16

Electrak® 1SP

12, 24 and 36 Vdc - load up to 340 N



Standard Features and Benefits

- Very compact and lightweight
- Potentiometer feedback
- Corrosion resistant housing
- Self-locking acme screw drive system
- Maintenance free
- Internally restrained extension tube
- Ideal for replacement of comparable size pneumatic and hydraulic cylinders

General Specifications

Parameter	Electrak 1SP
Screw type	acme
Internally restrained	yes
Manual override	no
Dynamic braking	no
Holding brake	no, self-locking
End of stroke protection	no
Mid stroke protection	no
Motor protection	auto reset thermal switch
Motor connection	flying leads and connector
Motor connector	Packard Electric Pack-Con male 8911773 with terminal 6294511. Mating connector: 8911772 with terminal 8911639 (p/n 9300-448-001)
Certificates	CE
Options	none

» Ordering Key - see page 74

» Glossary - see page 85

» Electric Wiring Diagram - see page 56

Performance Specifications

Parameter		Electrak 1SP
Maximum load, dynamic / static	[N]	
SP •• -09A04		110 / 1300
SP •• -09A08		225 / 1300
SP •• -17A08		340 / 1300
SP •• -17A16		340 / 1300
Speed, at no load / at maximum load	[mm/s]	
SP •• -09A04		75 / 52
SP •• -09A08		45 / 33
SP •• -17A08		26 / 17
SP •• -17A16		14 / 7
Available input voltages	[Vdc]	12, 24, 36
Standard stroke lengths	[inch]	2, 4, 6*
Operating temperature limits	[°C]	-25 – +65
Full load duty cycle @ 25 °C	[%]	25
End play, maximum	[mm]	0,9
Restraining torque	[Nm]	0
Lead cross section	[mm²]	1
Lead length	[mm]	110
Protection class		IP65
Potentiometer	[kOhm]	10**

* Six inch stroke length not possible for SP •• -17A16.

** See table on page 19 for resistance change per mm.

Compatible Controls

Control model	See page
DPDT switch	61
AC-247 ELS	64
DCG-150	66