Electrak 10

12, 24 and 36 Vdc - load up to 6800 N

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Standard Features and Benefits

- Robust, strong and reliable
- Withstands very harsh environments
- Stainless steel extension tube
- Acme or ball screw models
- Overload clutch for mid and end of stroke protection
- Motor with thermal switch
- Maintenance free

General Specifications

Parameter	Electrak 10
Screw type	acme or ball
Internally restrained	no
Manual override	no, optional
Dynamic braking	no
Holding brake acme screw models ball screw models	 no, self-locking yes
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	AMP connector with housing p/n 180908-5 with male terminals p/n 42098-2
Certificates	CE
Options	• potentiometer • manual override

Performance Specifications

Parameter		Electrak 10
Maximum load, dynamic / static	[N]	
D • • -05A5 (acme screw)		1100 / 11350
D • • -10A5 (acme screw)		2250 / 11350
D • • -20A5 (acme screw)		2250 / 11350
D • • -05B5 (ball screw)		2250 / 18000
D • • -10B5 (ball screw)		4500 / 18000
D • • -20B5 (ball screw)		4500 / 18000
D • • -21B5 (ball screw)		6800 / 18000
Speed, at no load / at maximum load	[mm/s]	
D • • -05A5 (acme screw)		54 / 32
D • • -10A5 (acme screw)		30 / 18
D • • -20A5 (acme screw)		15 / 12
D • • -05B5 (ball screw)		61 / 37
D • • -10B5 (ball screw)		30 / 19
D • • -20B5 (ball screw)		15 / 12
D • • -21B5 (ball screw)		15 / 11
Available input voltages	[Vdc]	12, 24, 36
Standard stroke lengths	[inch]	4, 6, 8, 10, 12, 14, 16, 18, 20, 24
Operating temperature limits	[°C]	-25 – +65
Full load duty cycle @ 25 °C	[%]	25
End play, maximum	[mm]	1,0
Restraining torque	[Nm]	11,3
Lead cross section	[mm^2]	2
Lead length	[mm]	165
Protection class		IP65

Compatible Controls

Control model	See page
DPDT switch	48
DPDT switch box	49
AC-063	50
DCG-190	54

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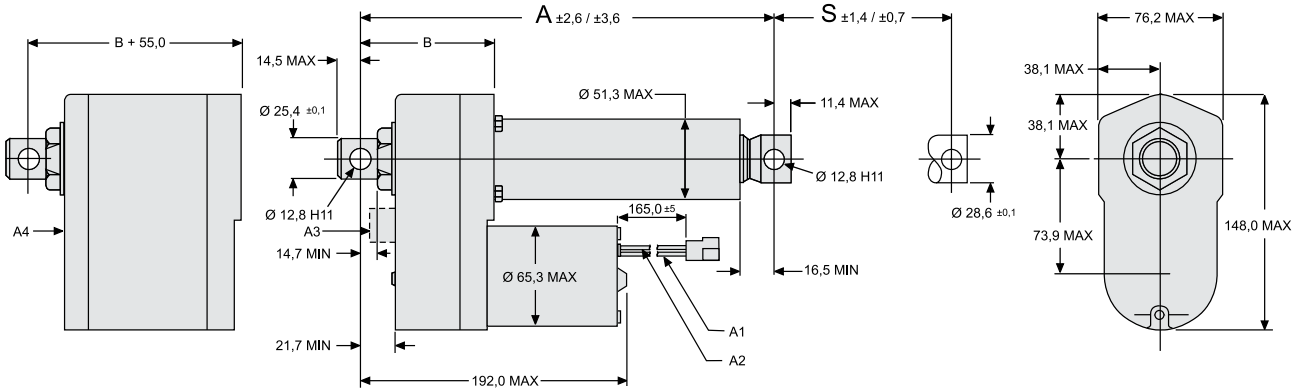


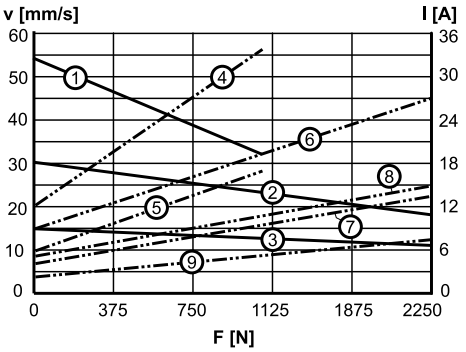
S: stroke, tolerance acme / ball screw
A: retracted length, tolerance acme / ball screw
A1: black lead
A2: red lead
A3: manual override input (optional)
A4: housing dimensions for potentiometer option

Stroke (S)	[inch (mm)]	4 (101,6)	6 (152,4)	8 (203,2)	10 (254,0)	12 (304,8)	14 (355,6)	16 (406,4)	18 (457,2)	20 (508,0)	24 (609,6)
Retracted length, acme screw models (A)	[mm]	262,3	313,1	363,9	414,7	465,5	567,1	617,9	668,7	719,5	821,1
Retracted length, ball screw models (A)	[mm]	302,3	353,1	403,9	454,7	505,5	607,1	657,9	708,7	759,5	861,1
Add on length for potentiometer*	[mm]	55,0	55,0	55,0	55,0	55,0	55,0	55,0	55,0	55,0	55,0
Weight, acme screw models	[kg]	4,5	4,7	4,9	5,0	5,2	5,4	5,5	5,7	5,8	6,2
Weight, ball screw models	[kg]	5,1	5,3	5,5	5,6	5,8	5,9	6,1	6,3	6,4	6,8
Add on weight for potentiometer*	[kg]	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3
Potentiometer resistance change*	[ohm/mm]	39	39	39	39	20	20	20	20	20	10

* Potentiometer is optional

Performance Diagrams

Acme Screw Models
Speed and Current vs. Load

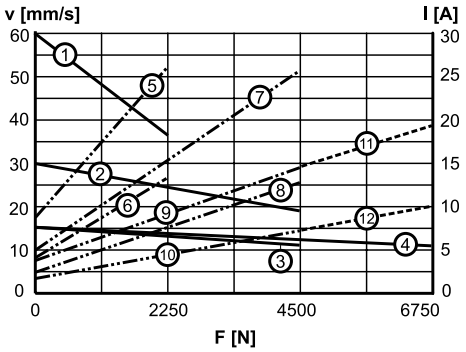


V: speed
I: current
F: load

1: speed D • • -05A5
2: speed D • • -10A5
3: speed D • • -20A5

4. current 12 Vdc, D12-05A5
5: current 24 Vdc, D24-05A5
6: current 12 Vdc, D12-10A5
7: current 24 Vdc, D24-10A5
8: current 12 Vdc, D12-20A5
9: current 24 Vdc, D24-20A5

Ball Screw Models
Speed and Current vs. Load



V: speed
I: current
F: load

1: speed D • • -05B5
2: speed D • • -10B5
3: speed D • • -20B5
4: speed D • • -21B5

5. current 12 Vdc, D12-05B5
6: current 24 Vdc, D24-05B5
7: current 12 Vdc, D12-10B5
8: current 24 Vdc, D24-10B5
9: current 12 Vdc, D12-20B5
10: current 24 Vdc, D24-20B5
11: current 12 Vdc, D12-21B5
12: current 24 Vdc, D24-21B5