

Electrak 050

12, 24 and 36 Vdc - load up to 510 N



» Ordering Key - see page 65

» Glossary - see page 72

» Electric Wiring Diagram - see page 44

Standard Features and Benefits

- Designed for office or medical applications
- Small, quiet and lightweight
- Very short retracted length
- Low cost
- Durable and corrosion free plastic housing
- Color molded into the plastic, no painting required
- End of stroke limit switches with dynamic braking
- Maintenance free
- Internally restrained extension tube
- Estimated life is minimum 40000 cycles
- Q-version for noise sensitive applications

General Specifications

Parameter	Electrak 050
Screw type	worm
Internally restrained	yes
Manual override	no
Dynamic braking	yes, at end of stroke
Holding brake	no, self-locking
End of stroke protection	internal limit switches
Mid stroke protection	overload clutch
Motor protection	auto reset thermal switch
Motor connection	flying leads
Motor connector	no
Certificates	CE
Options	<ul style="list-style-type: none"> • potentiometer 10 kOhm* • cross holes rotated 90° • white housing

* See performance specification table for resistance change per mm of travel.

Performance Specifications

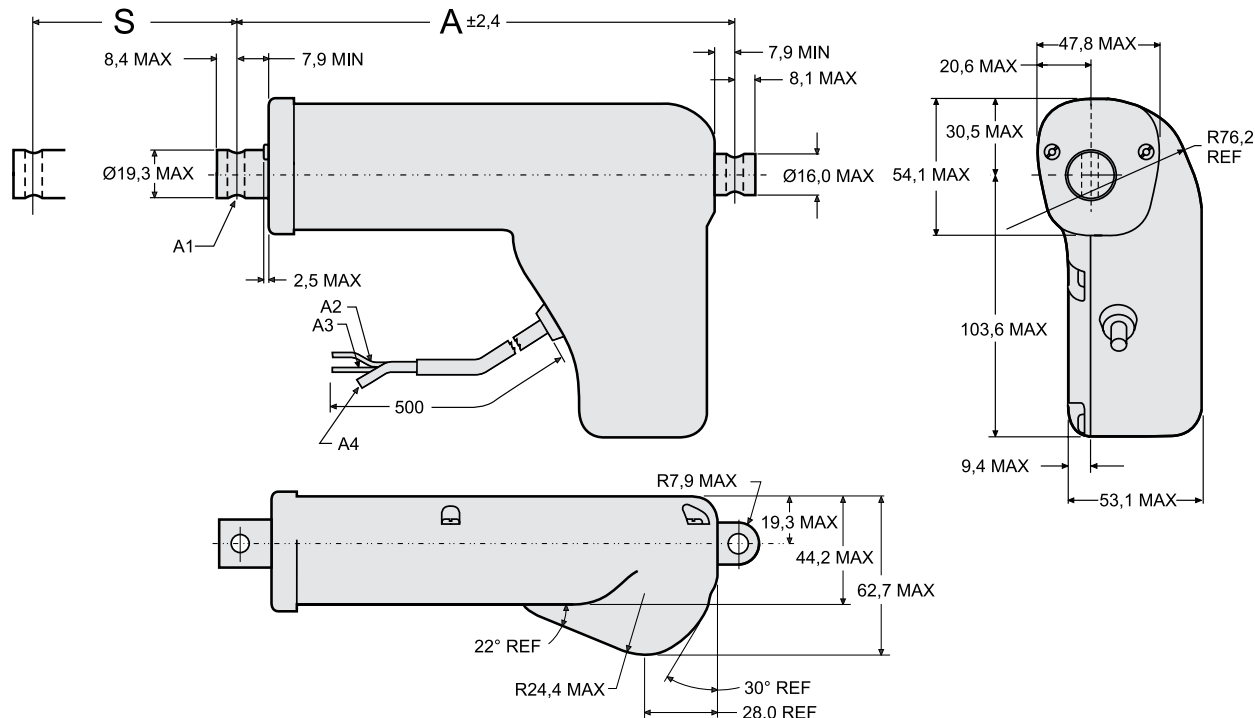
Parameter		Electrak 050
Maximum load, dynamic / static	[N]	
DE••• 17W41		510 / 1020
DE••• 17W42		275 / 550
DE••• 17W44		140 / 280
Speed, at no load / at maximum load	[mm/s]	
DE•• - 17W41		12 / 9
DE•• - 17W42		24 / 18
DE•• - 17W44		48 / 37
DE•• Q17W41		9 / 7,5
DE•• Q17W42		18 / 14
DE•• Q17W44		38 / 30
Available input voltages	[Vdc]	12, 24, 36
Standard stroke lengths	[mm]	25, 50, 75, 100, 125, 150, 175, 200
Operating temperature limits	[°C]	-30 – +80
Full load duty cycle @ 20 °C	[%]	25
End play, maximum	[mm]	1,5
Restraining torque	[Nm]	0
Lead cross section	[mm ²]	1
Lead length	[mm]	500
Protection class		
standar version		IP56
Q-version		IP51
Potentiometer resistance change	[ohm/mm]	
DE••• 17W41		22,0
DE••• 17W42		21,9
DE••• 17W44		21,2

Compatible Controls

Control model	See page
DPDT switch	48
DPDT switch box	49
DCG-150	52
AC-247 ELS	54

Electrak 050

12, 24 and 36 Vdc - load up to 510 N



S: stroke (tolerances: 17W41 = ± 3,23 mm, 17W42 = ± 4,25 mm, 17W44 = ± 5,26 mm)
 A: retracted length
 A1: Ø 6 mm +0,15/-0 mounting cross holes (2 ×) in standard position

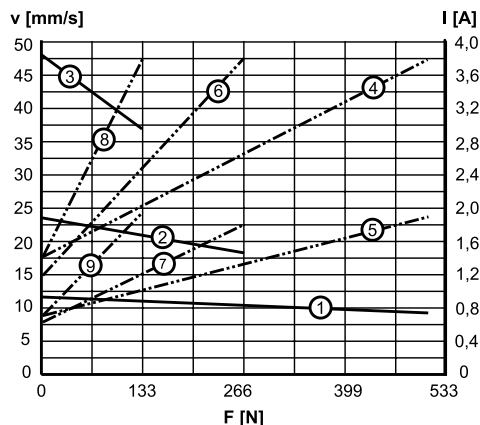
A2: red lead
 A3: yellow lead
 A4: vent tube Ø 3 mm

Stroke (S)	[mm]	25	50	75	100	125	150	175	200
Retracted length (A)	[mm]	114,2	139,2	164,2	189,2	214,2	239,2	264,2	289,2
Retracted length, with potentiometer (A)	[mm]	145,7	170,7	195,7	220,7	245,7	270,7	295,7	- *
Weight	[kg]	0,59	0,64	0,69	0,73	0,78	0,82	0,87	0,91
Weight with potentiometer	[kg]	0,69	0,74	0,79	0,83	0,88	0,92	0,97	- *

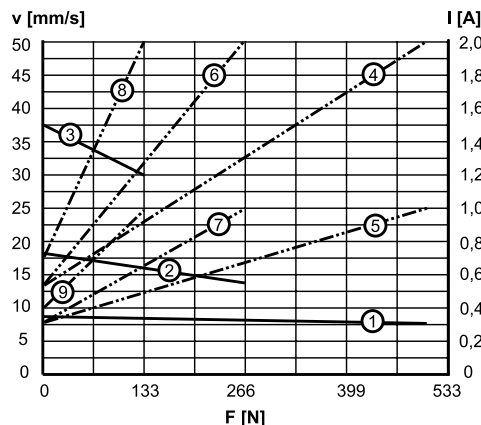
* 200 mm stroke not possible with potentiometer (P0, MP, PF options)

Performance Diagrams

050, standard version
Speed and Current vs. Load



050, Q-version
Speed and Current vs. Load



V: speed I: current F: load
 1: speed DE••• 17W41
 2: speed DE••• 17W42
 3: speed DE••• 17W44
 4: current 12 Vdc, DE12 • 17W41
 5: current 24 Vdc, DE24 • 17W41
 6: current 12 Vdc, DE12 • 17W42
 7: current 24 Vdc, DE24 • 17W42
 8: current 12 Vdc, DE12 • 17W44
 9: current 24 Vdc, DE24 • 17W44

Ordering Keys

Electrak DC-actuators

Electrak 050			
1	2	3	4
DE24 -	17W44M	15	FS
1. Model and input voltage DE12 - = Electrak 050, 12 Vdc DE24 - = Electrak 050, 24 Vdc DE36 - = Electrak 050, 36 Vdc DE12Q = Electrak 050, 12 Vdc, Q-version ¹ DE24Q = Electrak 050, 24 Vdc, Q-version ¹ DE36Q = Electrak 050, 36 Vdc, Q-version ¹		3. Stroke 02 = 25 mm 05 = 50 mm 07 = 75 mm 10 = 100 mm 12 = 125 mm 15 = 150 mm 17 = 175 mm 20 = 200 mm	
2. Dynamic load capacity and color 17W41M = 510 N, black housing 17W42M = 275 N, black housing 17W44M = 140 N, black housing 17W41W = 510 N, white housing ¹ 17W42W = 275 N, white housing ¹ 17W44W = 140 N, white housing ¹		4. End of stroke limit switches and potentiometer FS = limit switches and no potentiometer PO = potentiometer ² PF = limit switches and potentiometer ² MF = crossholes rotated 90° and limit switches MP = crossholes rotated 90° and potentiometer ²	
		¹ White housing is standard for the Q-version. ² Not possible in combination with 200 mm stroke.	

Electrak PPA-DC					
1	2	3	4	5	6
PPA24 -	58B65 -	18	N -	LS	X
1. Model and input voltage PPA12 - = Electrak PPA-DC, 12 Vdc PPA24 - = Electrak PPA-DC, 24 Vdc PPA36 - = Electrak PPA-DC, 36 Vdc		3. Stroke 04 = 4 inch (101,6 mm) 08 = 8 inch (203,2 mm) 12 = 12 inch (304,8 mm) 18 = 18 inch (457,2 mm) 24 = 24 inch (609,6 mm) 36 = 36 inch (914,4 mm)		5. Feedback option XX = no feedback option LS = end of stroke limit switches PO = potentiometer HS = encoder HL = encoder + end of stroke limit switches	
2. Dynamic load capacity 18B65 - = 3330 N 58B65 - = 6670 N		4. Brake option N - = no brake option		6. Bellows option X = no bellows C = bellows	