

Electrak 205

115 and 230 Vac - load up to 1500 lbf



Standard Features and Benefits

- Robust, strong and reliable
- Stainless steel extension tube
- Highly efficient ball screw drive system
- Electrical brake for accurate positioning
- Motor with thermal switch
- Adjustable end of stroke limit switches
- Potentiometer
- Universal mounting clamp for tube mounting available
- Maintenance free

General Specifications

Parameter	Electrak 205
Screw type	ball
Internally restrained	no
Manual override	no
Dynamic braking	no
Holding brake	yes
End of stroke protection	adjustable limit switches
Mid stroke protection	no
Motor protection	auto reset thermal switch
Motor connection	terminal strip in the housing
Cable entrance	1/2" NPT
Certificates	none
Options	none

Performance Specifications

Parameter		Electrak 205
Maximum load, dynamic	[lbf]	
ALP •• -05		500
ALP •• -10		1000
Contact customer support		1500
Maximum load, static tension	[lbf]	
ALP •• -••		4000
Maximum load, static compression	[lbf]	
ALP •• -•• (stroke under 24 inch)		4000
ALP •• -•• (24 inch stroke)		2500
Speed, at no load / at maximum load	[in/sec]	
ALP •• -05		2.05 / 1.75
ALP •• -10		1.10 / 0.90
Available input voltages*	[Vac]	
Single phase		115, 230
Input frequency	[Hz]	
1 × 120 Vac model		60
1 × 230 Vac model		50/60
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]	0.035
Restraining torque	[lbf-in]	100
Max. terminal strip lead cross section	[AWG]	14
Protection class		IP55
Potentiometer	[kOhm]	10
Potentiometer resistance change	[ohm/in]	385

* Capacitor required to run the actuator. 115 Vac = 35 µF, p/n 9200-448-002,
230 Vac = 10 µF, p/n 9200-448-003.
Universal mounting kit. 9200-448-006

Compatible Controls

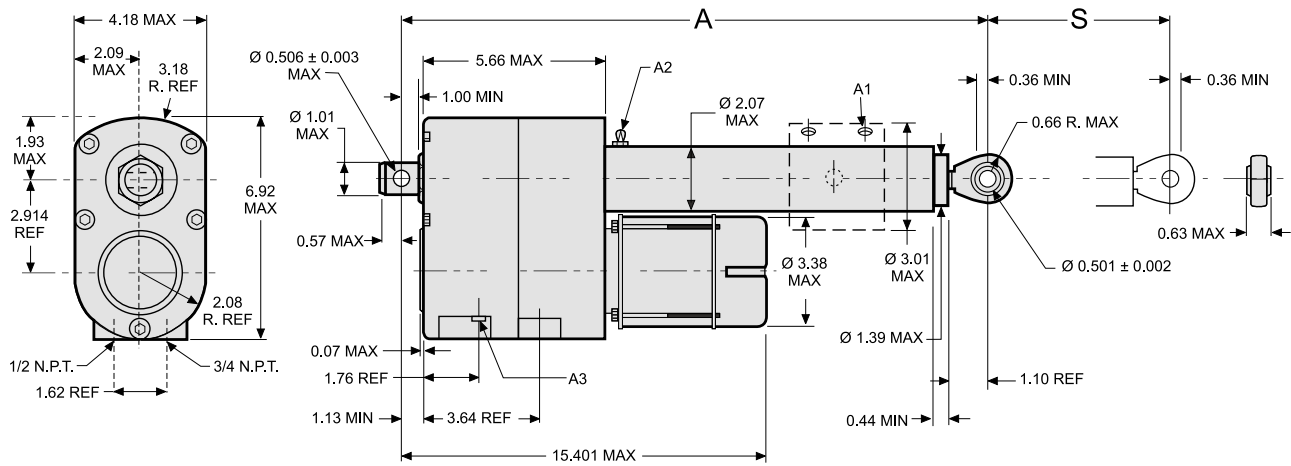
Control model	See page
DPDT switch	46
MCS-2051**	49

** This control include a capacitor making an external capacitor redundant.

» Ordering Key - see page 58
» Glossary - see page 61
» Electric Wiring Diagram - see page 43

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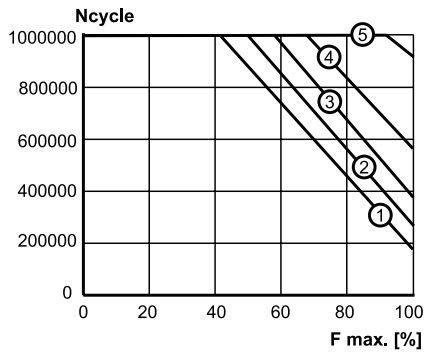


S: stroke
 A: retracted length
 A1: universal mounting clamp
 A2: grease fitting
 A3: limit switch adjustment

Stroke (S)	[inch]	4	8	12	18	24
Retracted length (A)	[inch]	22.2	26.2	30.2	36.2	42.2
Weight	[lb]	25.5	27.5	29.5	32.5	35.5

Performance Diagrams

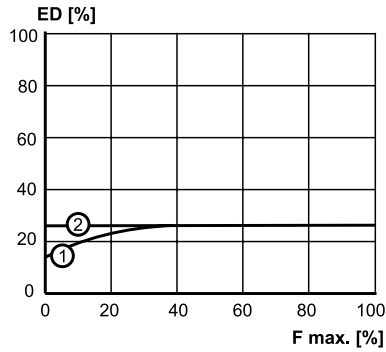
Life vs. Load



Ncycle: life in number of cycles
 (one cycle = extend and retract)
 F max: percent of maximum rated load

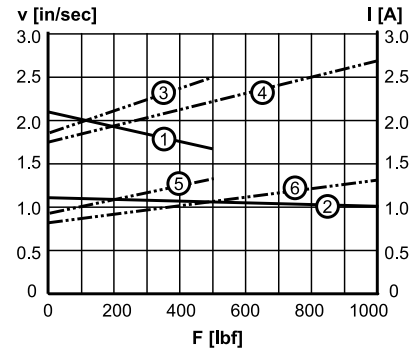
- 1: 1000 lbf, 24 inch stroke
- 2: 1000 lbf, 18 inch stroke
- 3: 1000 lbf, 12 inch stroke
- 4: 1000 lbf, 8 inch stroke
- 5: 1000 lbf, 4 inch stroke

Duty Cycle vs. Load



ED: duty cycle in percent at 77° F
 F max: percent of maximum rated load
 1: 50 Hz input frequency
 2: 60 Hz input frequency

Speed and Current vs. Load



V: speed I: current F: load
 1: speed 500 lbf
 2: speed 1000 lbf
 3: current 500 lbf, 115 Vac
 4: current for 1000 lbf, 115 Vac
 5: current 500 lbf, 230 Vac
 6: current 1000 lbf, 230 Vac