

RA-67

Actuator series



Compact size



Hall potentiometer position feedback



High lifting force



Easy installation



Elegant design



Maintenance free



Limit switches



Customizable

The smooth-sliding actuator

The RA-67 is a robust sliding carriage actuator, capable of moving loads of up to 6.000 N (1.349 lbf), specially developed to **provide reliable, smooth and precise movement** in electric wheelchairs, medical and comfort beds, surgical operating tables, dental chairs as well as domestic sofas and armchairs.



Main features



Powerful

Loads of up to
6.000 N (1.349 lbf) push
4.000 N (899 lbf) pull



Fast

Up to 7,2 mm/s
(0,3 in/s)



Precise

Limit switches at stroke end points and hall potentiometer position feedback



Resistant

PA 30% GF
Aluminium housing

Actuator specifications

Max. Load	6.000 N (push) 4.000 (pull)	1.349 lbf (push) 899 (pull)
Lead	4 mm	0,2 in
Max. speed (no load)	7,2 mm/s	0,3 in/s
Max. Current	7,0 A	
Power Supply	24 VDC	
Limit switches	At stroke end points	
Standard stroke	155 mm	6,1 in
Retracted length (center to center)	158 mm	6,2 in
Duty Cycle	10% (2 min. out of 18 min.)	
Starting current	24 VDC	

Mechanical specifications

Housing material	PA6 30%GF - Aluminum
Color	Black
Connectors	Power: Inconnect D50754 IPG-8202-PS Feedback: Molex 43025-0400

Environment Specifications

IP Rating	IP20	
Operating temperature	5 °C to 40 °C	41 °F to 104 °F
Storage temperature	-30 °C to 70 °C	-22 °F to 158 °F

Hall Potentiometer - Specifications

Supply voltage	5 VDC
Output	Analog Output 0,3 - 3,0 VDC ± 3%

Position feedback options

The RA-67 features a microprocessor and up to four customizable feedback options. The standard actuator features a Hall Potentiometer with position memory and analog output.

If required, the RA-67 can deliver digital position signal (Hall Encoder), a pulse hall PWM tracking option and an innovative spindle revolutions count system. Lastly, the RA-67 also presents integrated limit switches to increase safety and reliability.

Customizable upon request

Stroke length
Anodized colors
Cable length
Dimensions
Connectors
Brackets

Please, contact info@regner.es for customized configurations.

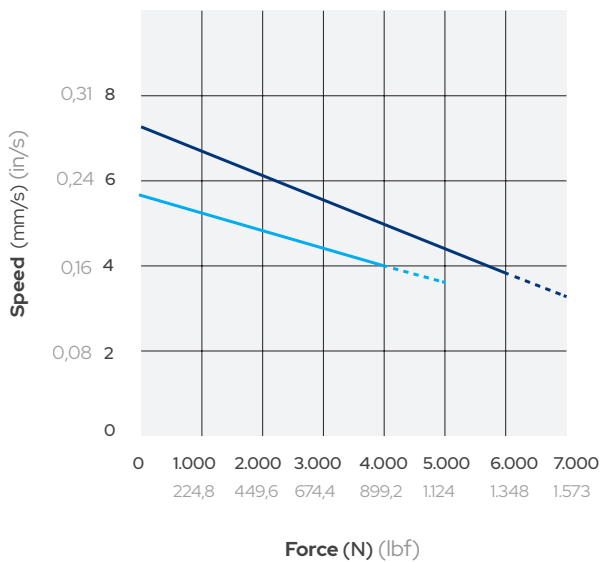


Actuator type	Max. Load (N)	Stroke length (mm)	Min. Length (mm)	Cable length (mm)	Mounting type M10= Metric 10	Position control output AE= Encoder (Hall potentiometer) DE = Encoder with digital output	Limit switches L = With limit switches Ø = Without limit switches
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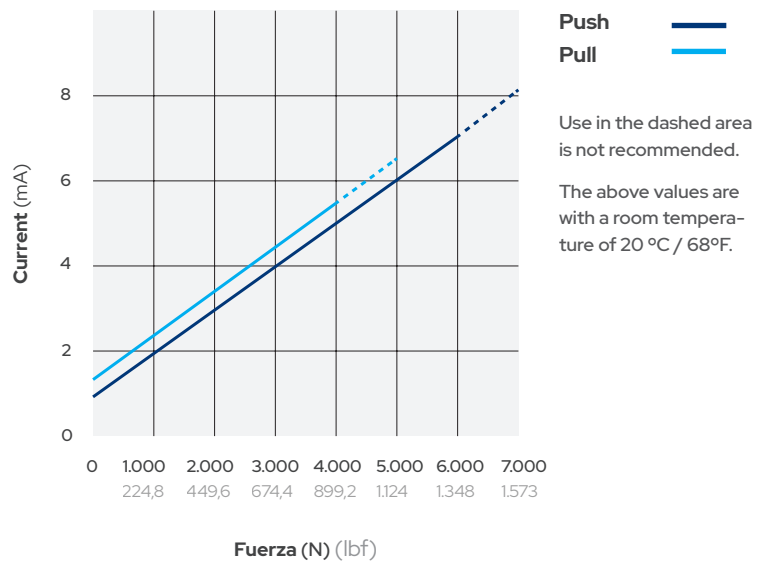
Force, speed and current

	Force (N) (lbf)	No load No load	1.000 N 225 lbf	2.000 N 450 lbf	3.000 N 674 lbf	4.000 N 899 lbf	5.000 N 1.124 lbf	6.000 N 1.349 lbf
Push	Average current (mA)	1,1	2,0	3,2	4,0	5,1	6,0	6,9
	Speed (mm/s) (in/s)	7,2 - 0,28	6,8 - 0,27	6,1 - 0,24	5,7 - 0,22	5,1 - 0,20	4,4 - 0,17	3,8 - 0,15
Pull	Average current (mA)	1,4	2,3	3,3	4,5	5,5	-	-
	Speed (mm/s) (in/s)	5,8 - 0,23	5,5 - 0,22	5,1 - 0,20	4,5 - 0,18	4,0 - 0,16	-	-

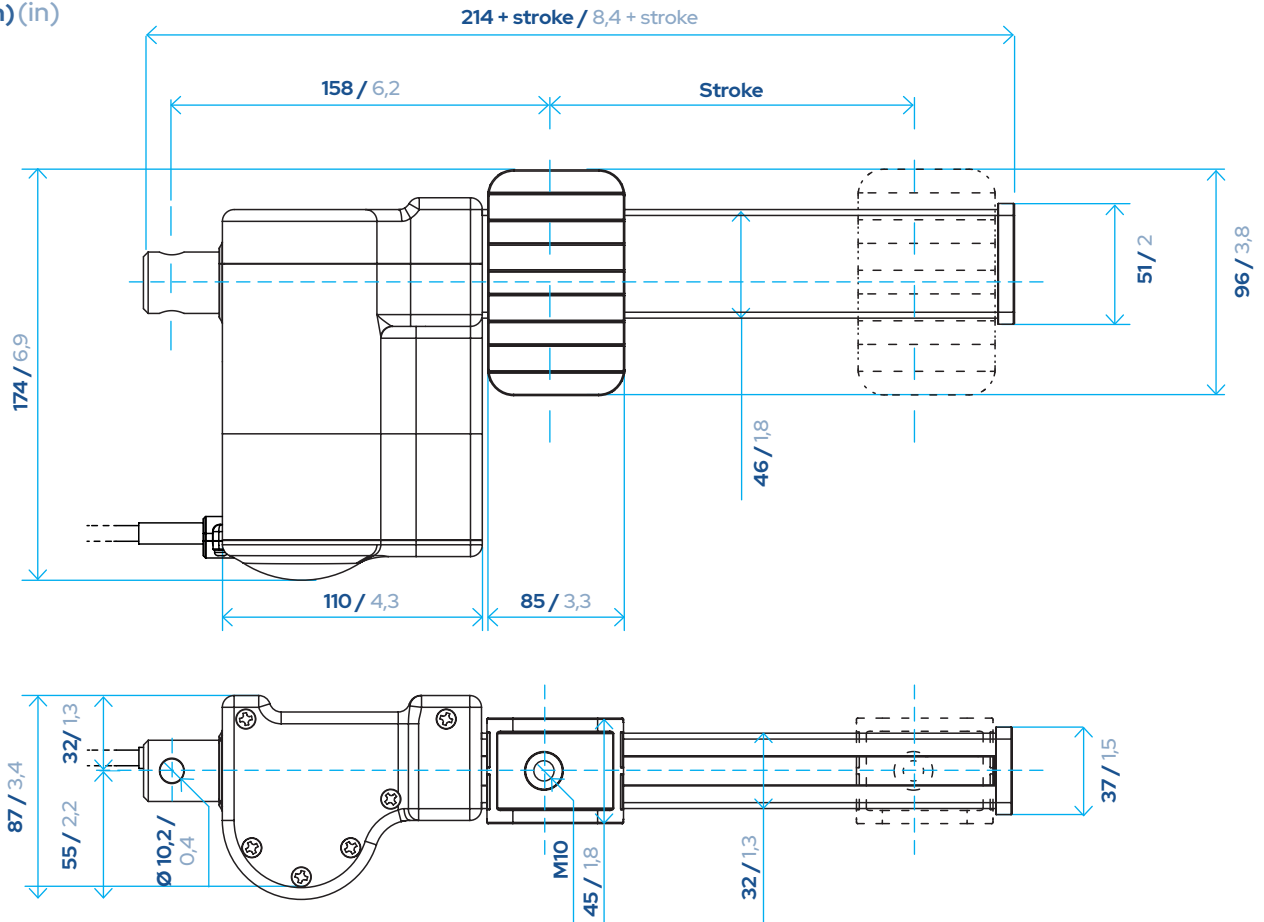
Speed - Force



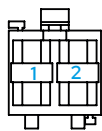
Current - Force



Dimensions (mm) (in)



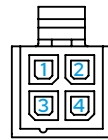
Connectors



Power Supply

Inconnect D50754 IPG-8202-PS

- 1 Motor -
- 2 Motor +



Position feedback

Molex 43025-0400

- 1 -
- 2 Feedback Signal
- 3 Feedback 5 VDC
- 4 Feedback 0 VDC



Forging ahead to achieve high quality

ISO 9001 Quality management
ISO 14001 Environmental management system
ISO 13485 Medical devices

We use **high quality components and apply semiautomatic production** and rigorous testing to verify and validate each motion control solution before they leave our premises. Plus, our management systems, which are continuously audited, ensure optimized agile manufacturing. All these measures translate into high quality products.

Every single **RA-67** undergoes strict QC assessments during production in order to guarantee optimal performance and durability.

Ripollès, 4. Pol. Industrial Casa Nova.
17181 Aiguaviva (Girona). Spain

T.+34 972 476 911 – F. +34 972 475 803
info@regner.es - regner.tech

