

DATASHEET

# RA-67 TRACK LINEAR ACTUATOR



COMPACT SIZE



HALL POTENTIOMETER POSITION FEEDBACK



HIGH LIFTING FORCE



EASY MOUNTING



ELEGANT DESIGN



MAINTENANCE FREE



BUILT-IN LIMIT SWITCHES



CUSTOMIZABLE

## Unlimited power & control

The RA-67 is a high duty track actuator with a precise feedback system. With a maximum thrust of 6000 N, the RA-67 integrates an advanced electronic board and a Hall potentiometer to keep track of its position enabling to easily integrate the actuator in a wide range of motion control systems.

The RA-67 track actuator presents a very small installation dimension, with a minimum distance between the fixing points, so it can be included in designs where a high lifting force is required but space is limited.

### Main Features

- Actuator power supply: 24 VDC
- Max. load: 6000 N (push) 4000 N (pull)
- Max. speed: 7.2 mm/s
- Limit switches at stroke endpoints
- Hall potentiometer position feedback
- PA6 30%GF and aluminum housing

### Applications

- Powered wheelchairs
- Battery-operated medical equipment
- Ergonomic medical furniture
- Robotics
- Safety equipment
- Household automation equipment
- Automotive
- Industrial automation

### Customizable

- Stroke lengths
- Position feedback: Hall encoder, Hall PWM & Spindle feedback available
- Built-in dimensions
- Colors
- Connectors
- Cable lengths
- Mounting brackets

# Standard Technical Specifications

## Actuator Specifications

<b>Max. Load</b>	6000 N (push) 4000 N (pull)
<b>Lead</b>	4 mm
<b>Max. Speed (No load)</b>	7.2 mm/s
<b>Max. Current</b>	7.0 A
<b>Starting Current</b>	8 A
<b>Power Supply</b>	24 VDC
<b>Limit switches</b>	At strokes endpoints
<b>Stroke</b>	155 mm
<b>Duty Cycle</b>	10 % (2 min out of 18 min)

## Mechanical Specifications

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

## Environment Specifications

<b>IP Rating</b>	IP 20
<b>Operating temperature</b>	+5 °C to + 40 °C
<b>Storage temperature</b>	-30 °C to + 70 °C

## Hall Potentiometer - Specifications

<b>Supply voltage</b>	5 VDC
<b>Output</b>	Analog Output 0.3 - 3.0 VDC ± 3%

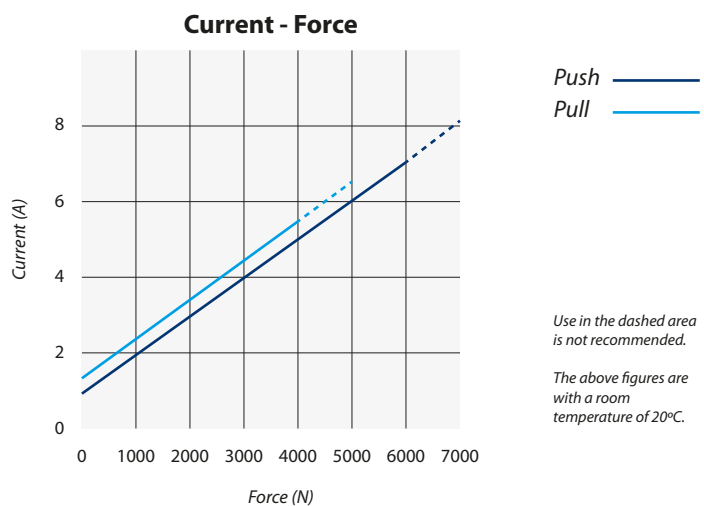
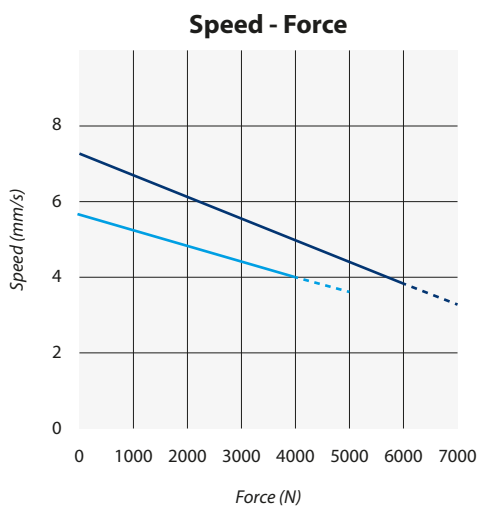
### Position feedback options

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 a 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.

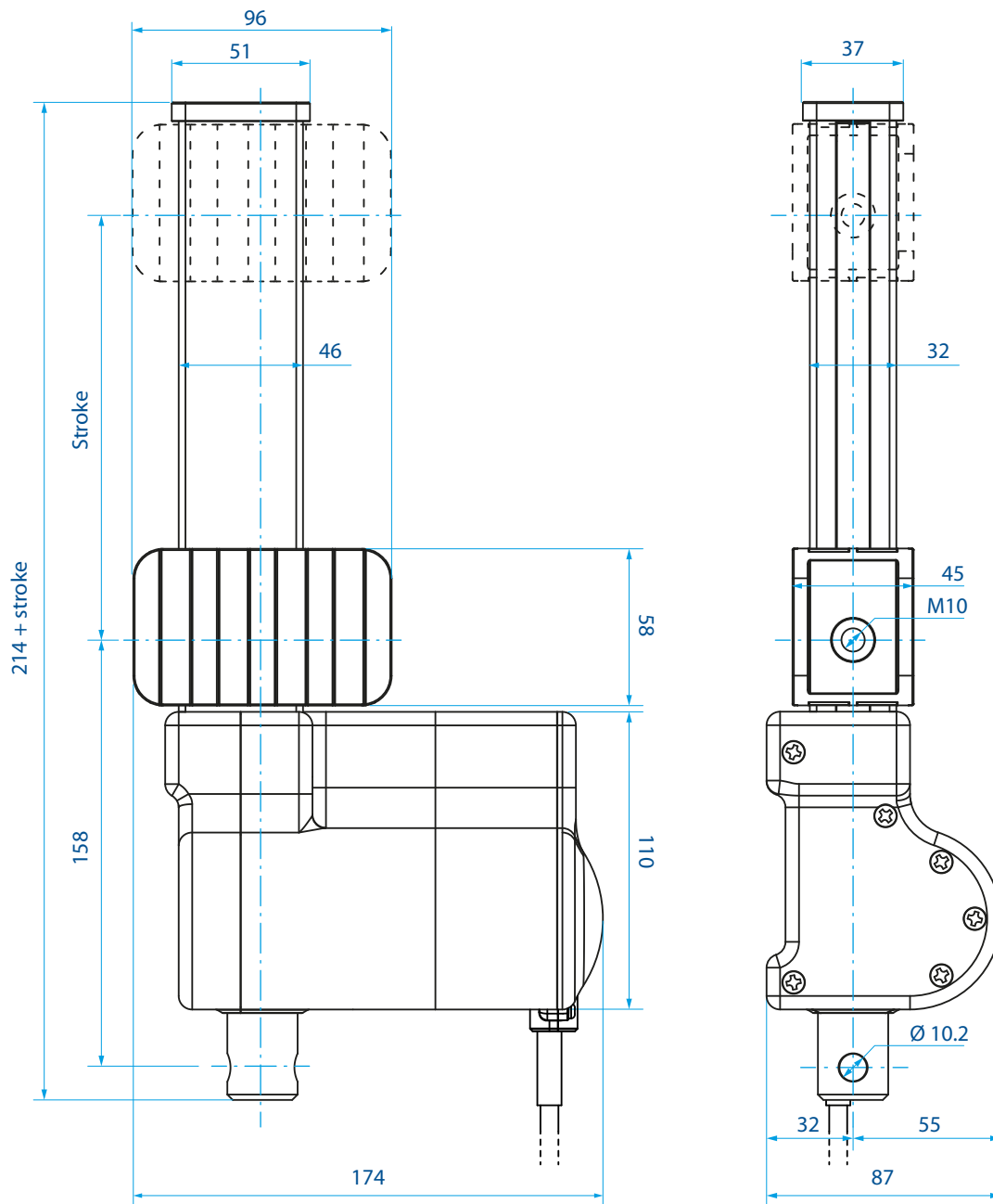
Please contact [info@regner.es](mailto:info@regner.es) for customized configurations.

## Force, speed and current

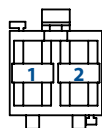
	Force (N)	No load	1000 N	2000 N	3000 N	4000 N	5000 N	6000 N
<b>PUSH</b>	<b>Average Current (A)</b>	1.1	2.0	3.2	4.0	5.1	6.0	6.9
	<b>Speed (mm/s)</b>	7.2	6.8	6.1	5.7	5.1	4.4	3.8
<b>PULL</b>	<b>Average Current (A)</b>	1.4	2.3	3.3	4.5	5.5	-	-
	<b>Speed (mm/s)</b>	5.8	5.5	5.1	4.5	4.0	-	-



## Dimensions (mm)



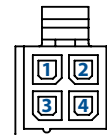
### Connectors



#### 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

## Quality

### Forging ahead to achieve high quality

- We apply high quality components, semi-automatic production and rigorous testing to verify and validate each motion control solution before leaving our premises. Our continuously audited management systems ensure optimized agile manufacturing. All these measures make for high quality products.

### RA-67 Quality control

- Every single RA-67 goes through a strict quality control before leaving production in order to guarantee an optimum performance and durability.

### Certifications

- ISO 9001 : 2008 *Quality management*
- ISO 14001 : 2004 *Environmental management system*
- ISO 13485 : 2012 *Medical devices*

Quiet  
Safe  
Durable  
Easy  
Efficient  
Powerful  
Elegant  
Customizable

