

## Actuator RE5003



RE5003 is a quiet, very compact high-power actuator. It is well suited for all applications where the build in space is limited, such as seat-lifts, lift-chairs, wheelchair lifting devices etc. The actuator can be controlled by any REAC controller as well as all known third party controllers equipped with soft start/stop system on the market.

**Standard features**

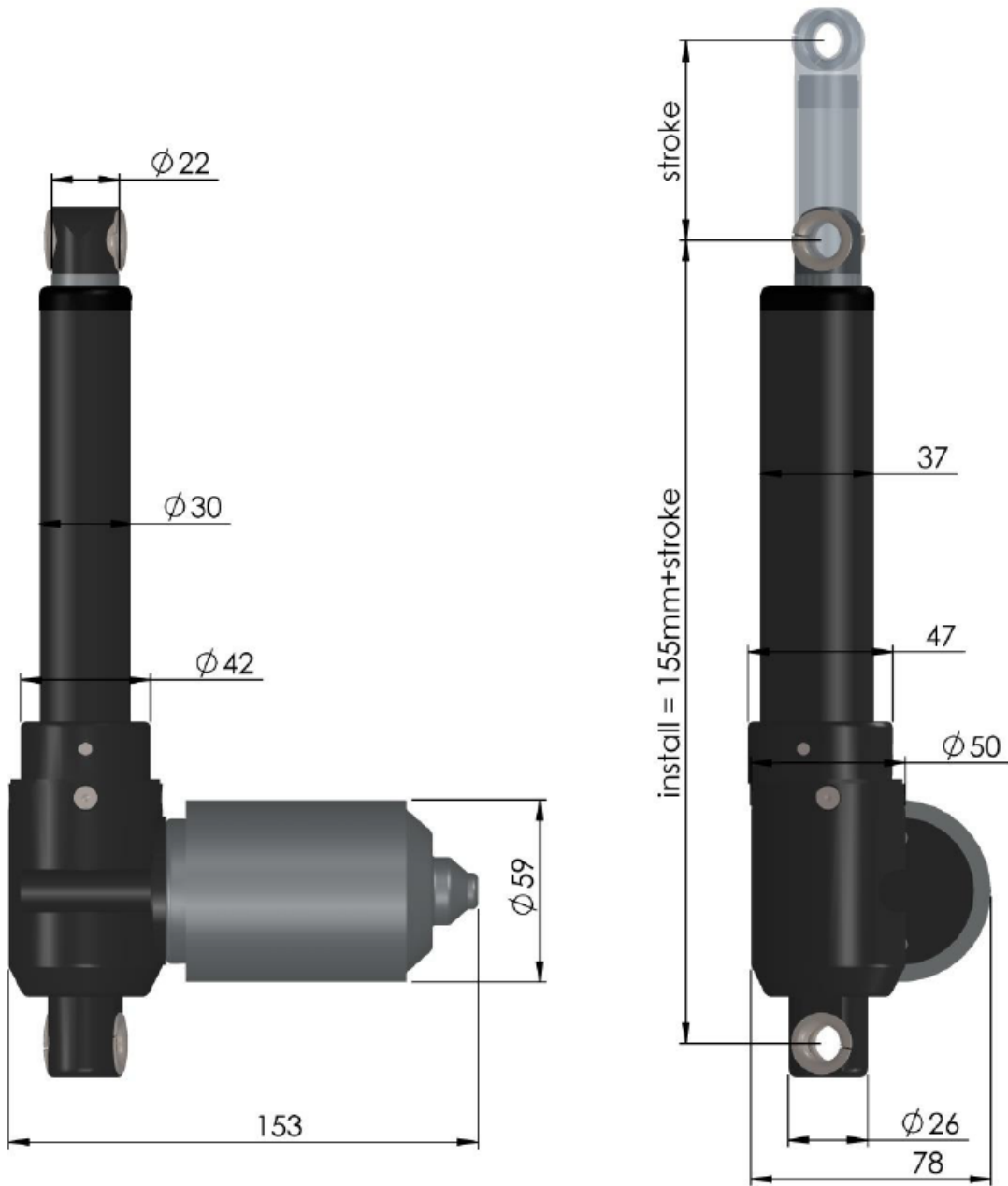
Max push force	3000-6000N
Max pull force	3000-4000N
Max static load	5000N (motor ends short circuited)
Min speed (full load)	3,7 – 8,9 mm/s
Max speed (no load)	4,5 - 12 mm/s
Min built in length	155 mm + stroke
Stroke lengths (mm)	50, 100, 150, 200, 250
IP-class	IPX1
Current consumption (full load)	3,0-5.5A
Current consumption (no load)	0,6-1.5A
Feedback & switches	Mechanical limit switch
Motor	24VDC fast increased selflocking Angle: fixed 90°
Mounting brackets	cyl 10,0/12,0mm, fork 10,1mm. Angle for rear bracket: 0° or 90°
Connection	Cable 0,5m 2x0,75mm <sup>2</sup> (stripped ends)
Operating temperature	+5° to +40°C
Storage temperature	-40° to +70°C
Housing	Steel
Piston	Steel
Color	Black
Duty cycle	10%, max 2 min at continuous use followed by an 18 min rest

**Options**

Stroke lengths (mm)	Customizable
Protection class	-
Mounting brackets	Customizable
Connection & Cables	Customizable
Color	Customizable
Feedback & switches	Reed switch Hall sensor feedback, 2 channels Linear potentiometer
Motor	24VDC compact (outer diameter 45mm)

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Dimensions

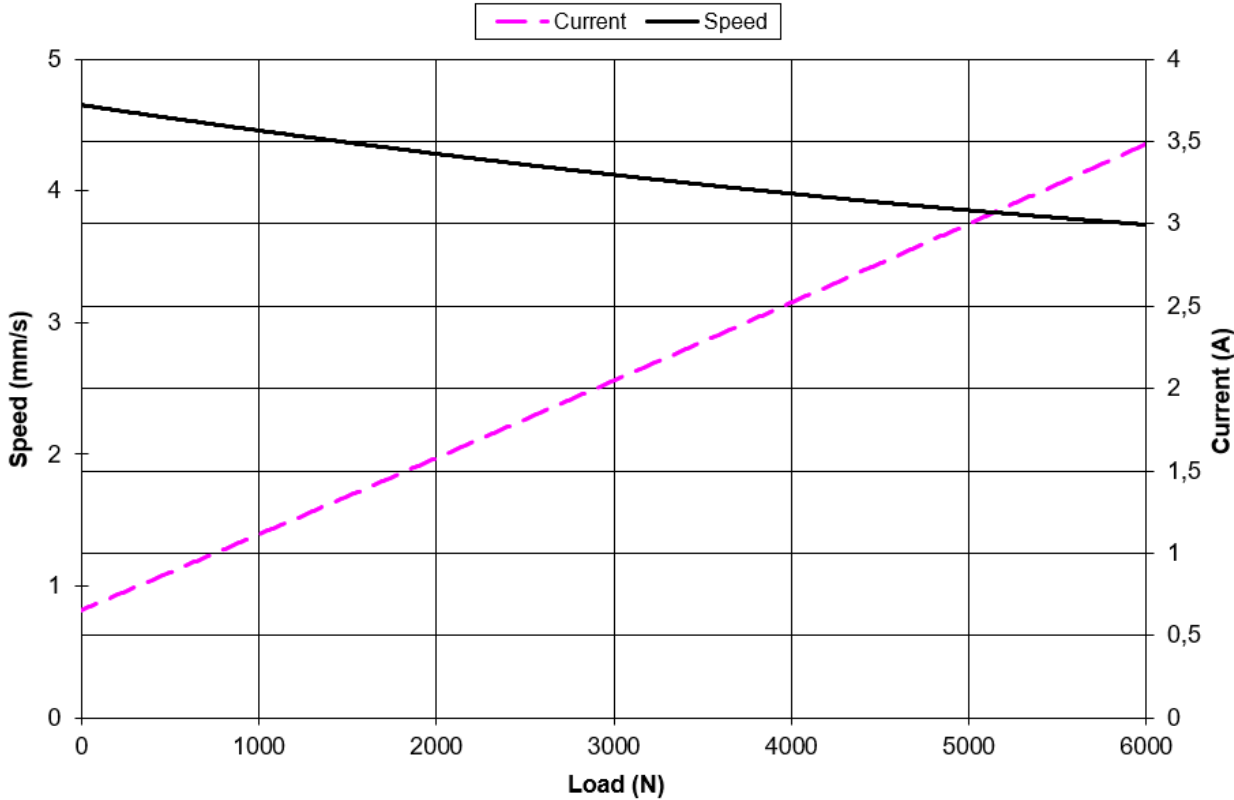


**Performance**

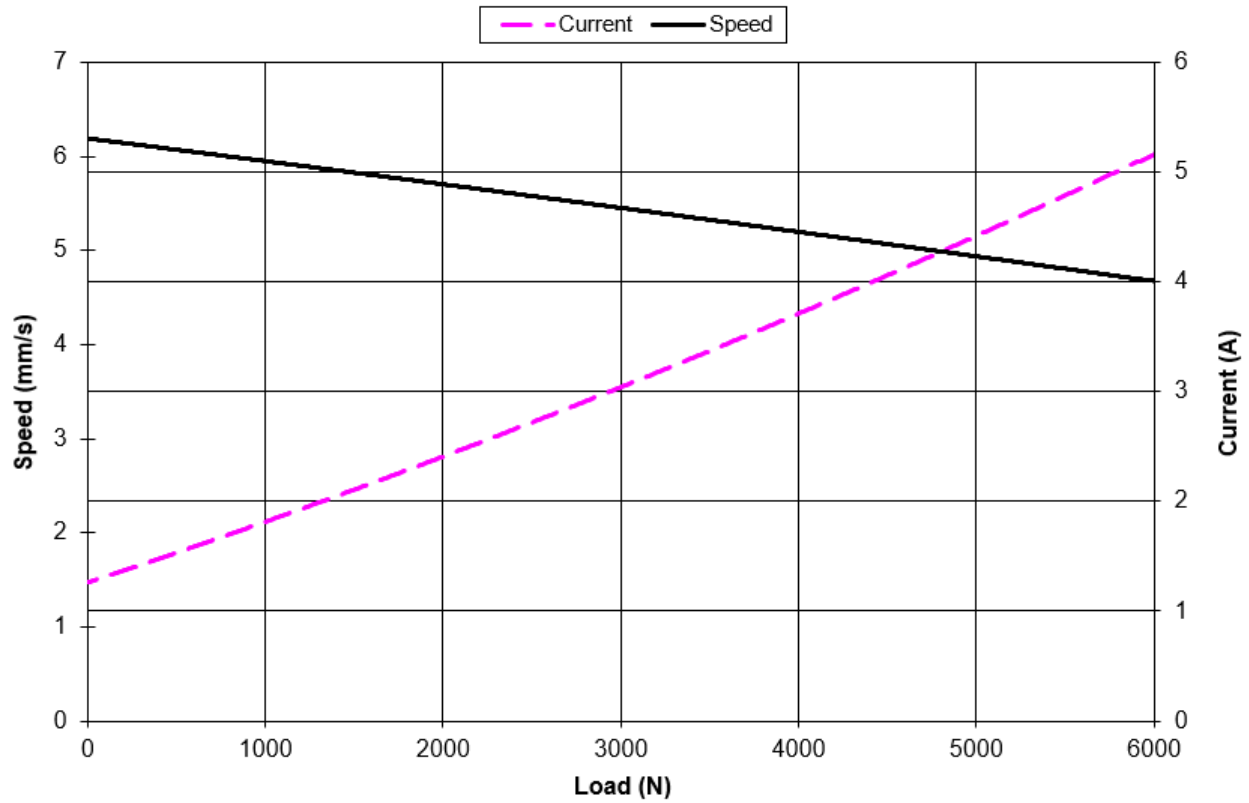
Chart showing speed and current for RE5004

Pitch [mm]	Max push force [N]	Max pull force [N]	Max self-locking push [N]	Speed at no/max force [mm/s]	Current consumption at no/max force [A]	DC motor [type]
3	6000	4000	5000	4,5 / 3,7	0,6 / 3,5	Standard
3	6000	4000	4000	6,0 / 4,5	1,1 / 5,5	Fast
3	6000	4000	4000	8,0 / 5,5	1,5 / 4,8	Compact
4	6000	4000	5000	5,5 / 4,6	0,8 / 4,5	Standard
4	6000	4000	4000	8,0 / 6,0	1,2 / 5,2	Fast
6	3000	4000	3000	7,5 / 6,8	1,0 / 3,0	Standard
6	3000	4000	3000	12,0 / 8,9	1,2 / 4,8	Fast
2,5	6000	4000	5000	4,5 / 4,3	1,2 / 4,5	Fast

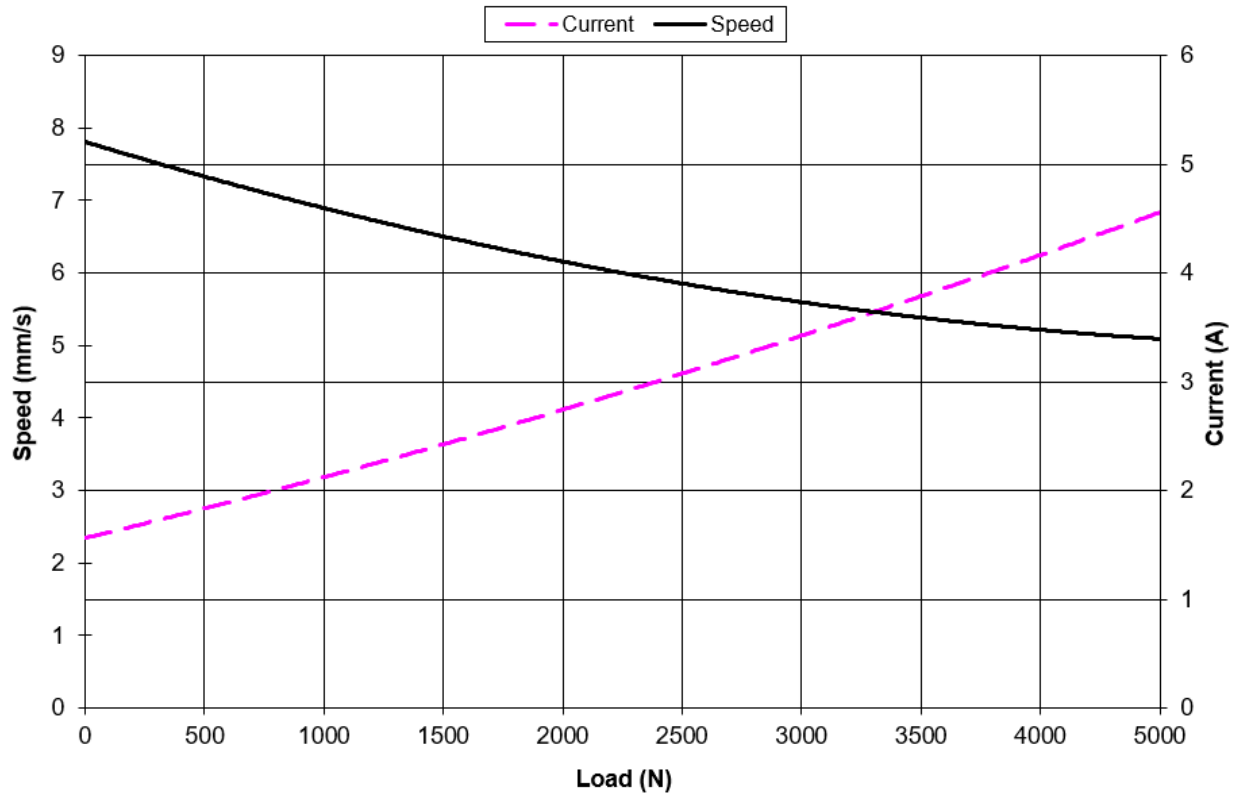
**LL5003 Tr12x3 standard motor**



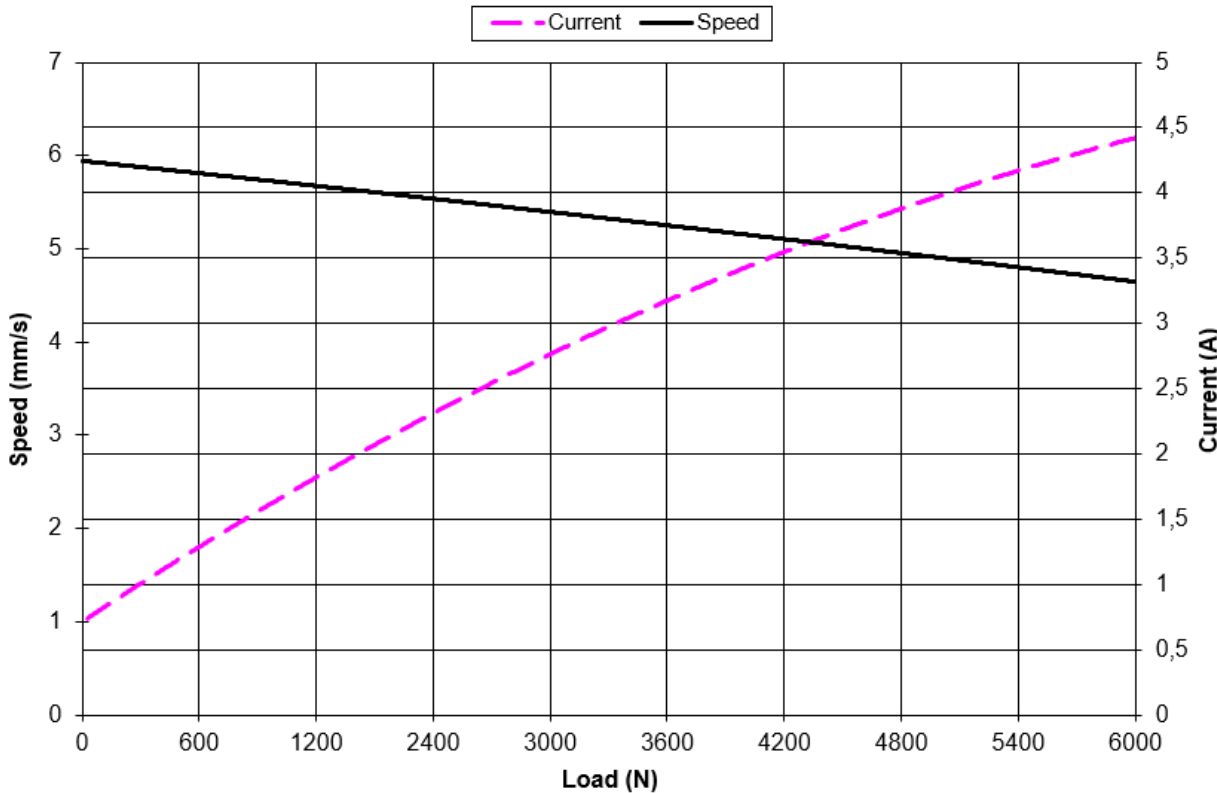
### RE5003 Tr12x3 fast motor



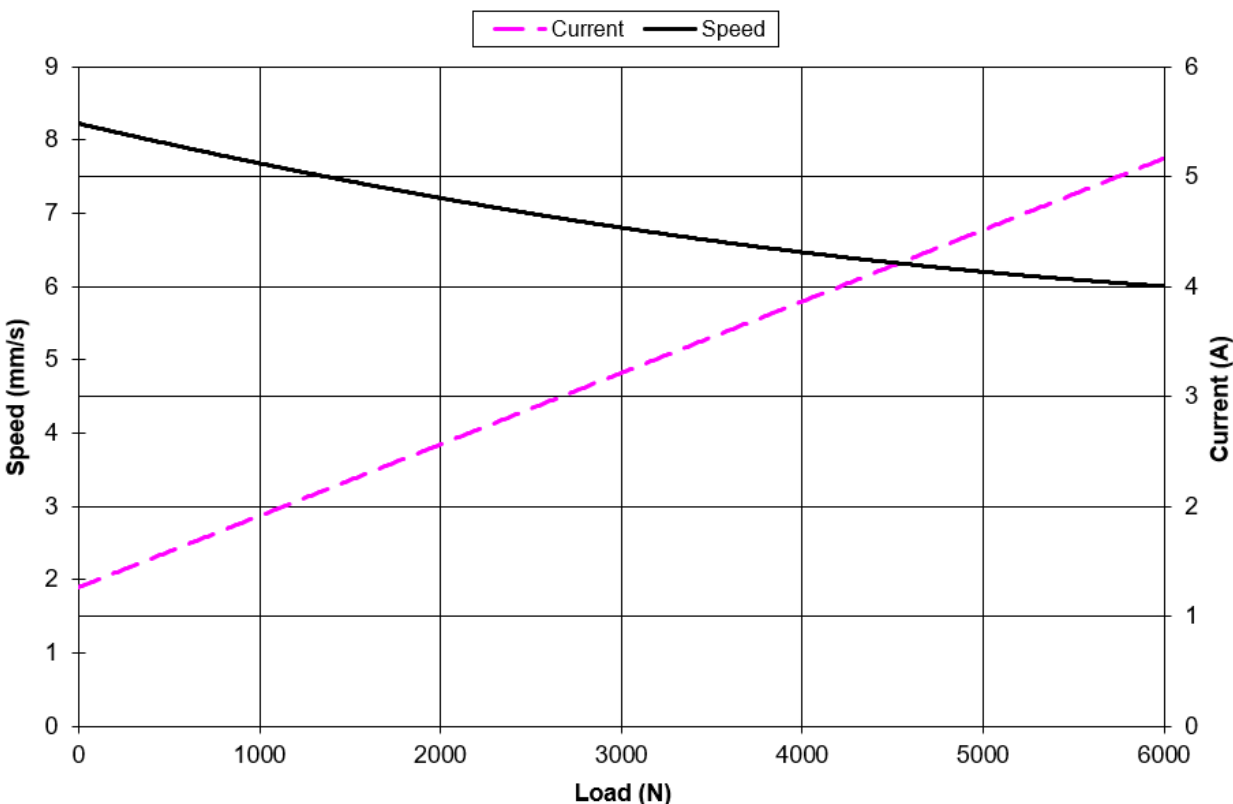
### LL5003 Tr12x3 compact motor



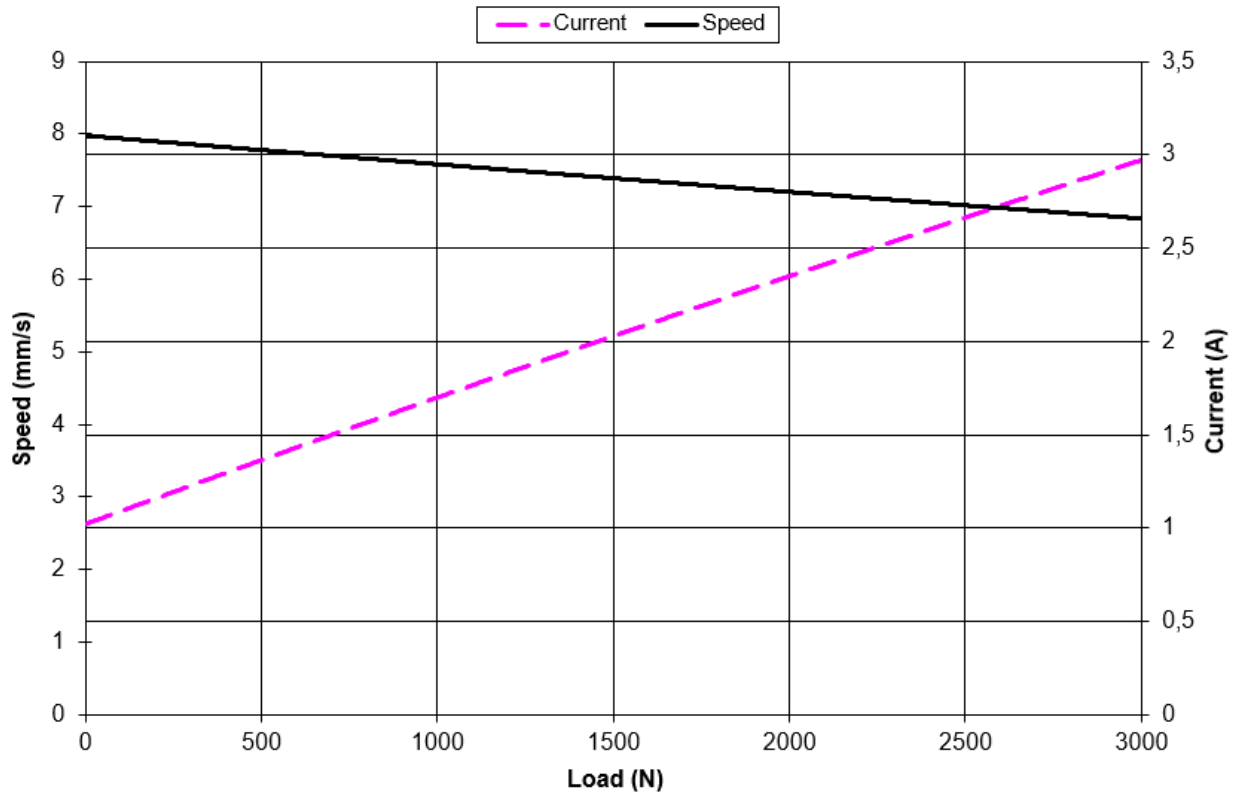
### LL5003 Tr14X4 standard motor



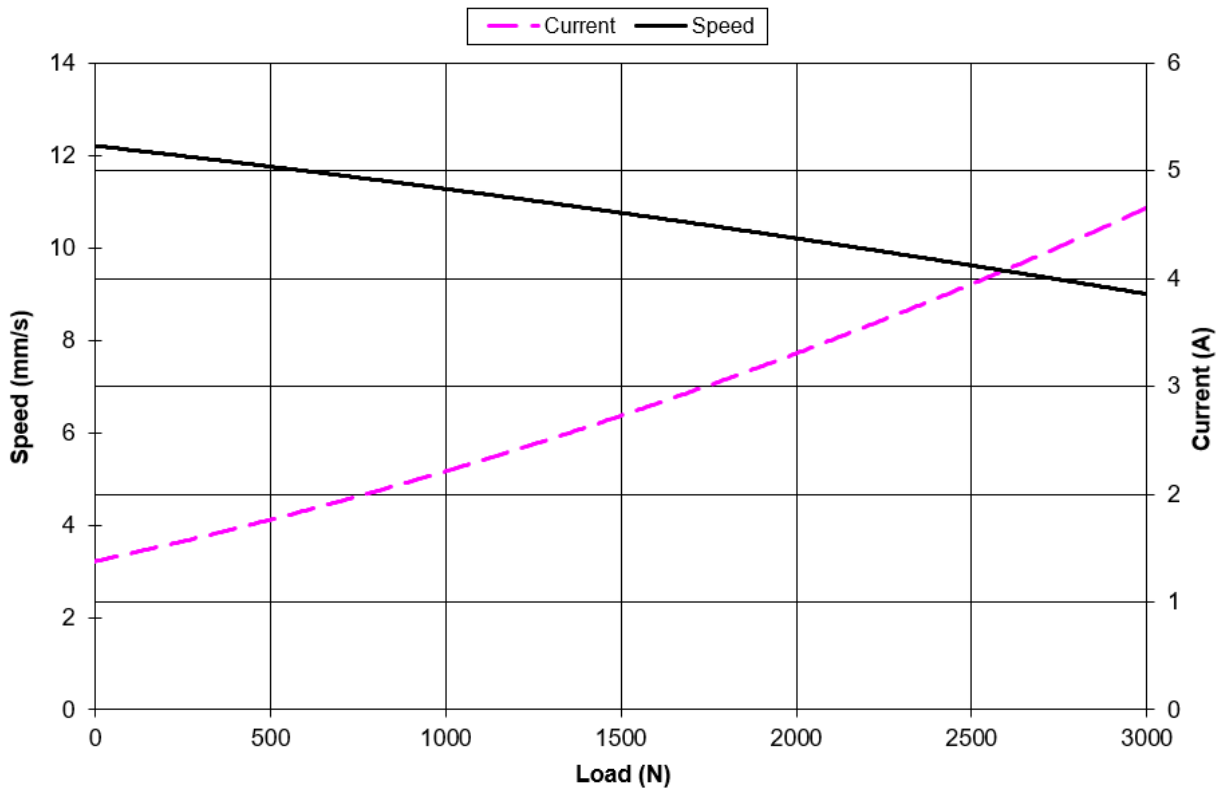
### LL5003 Tr14X4 fast motor



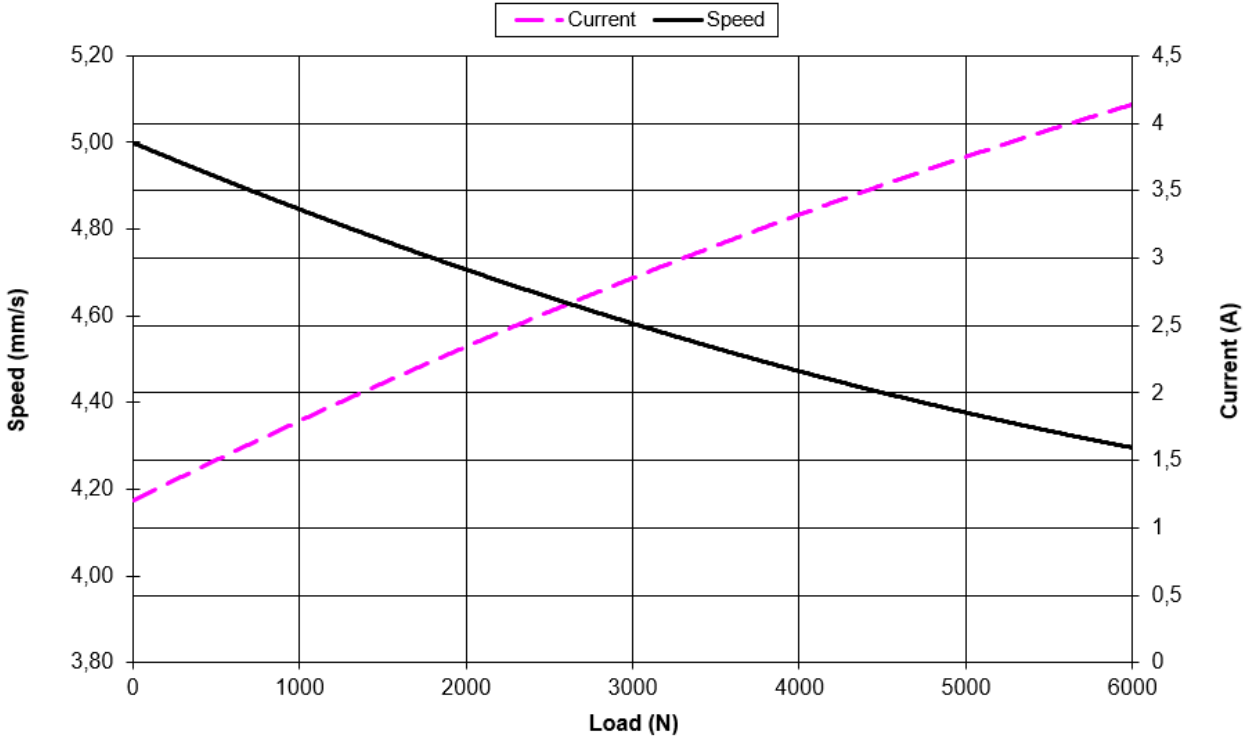
### LL5003 Tr12x6 standard motor



### LL5003 Tr12x6 fast motor



LL5003 Tr12x2.5 fast motor



Charts show average figures for 24V actuator using stabilized power supply. Figures all with ambient temperature of 20°C. Accuracy: ±5

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