

Actuator **RE5003**



RE5003 is a quiet, very compact high-power actuator. It is well suited for 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 on the market.

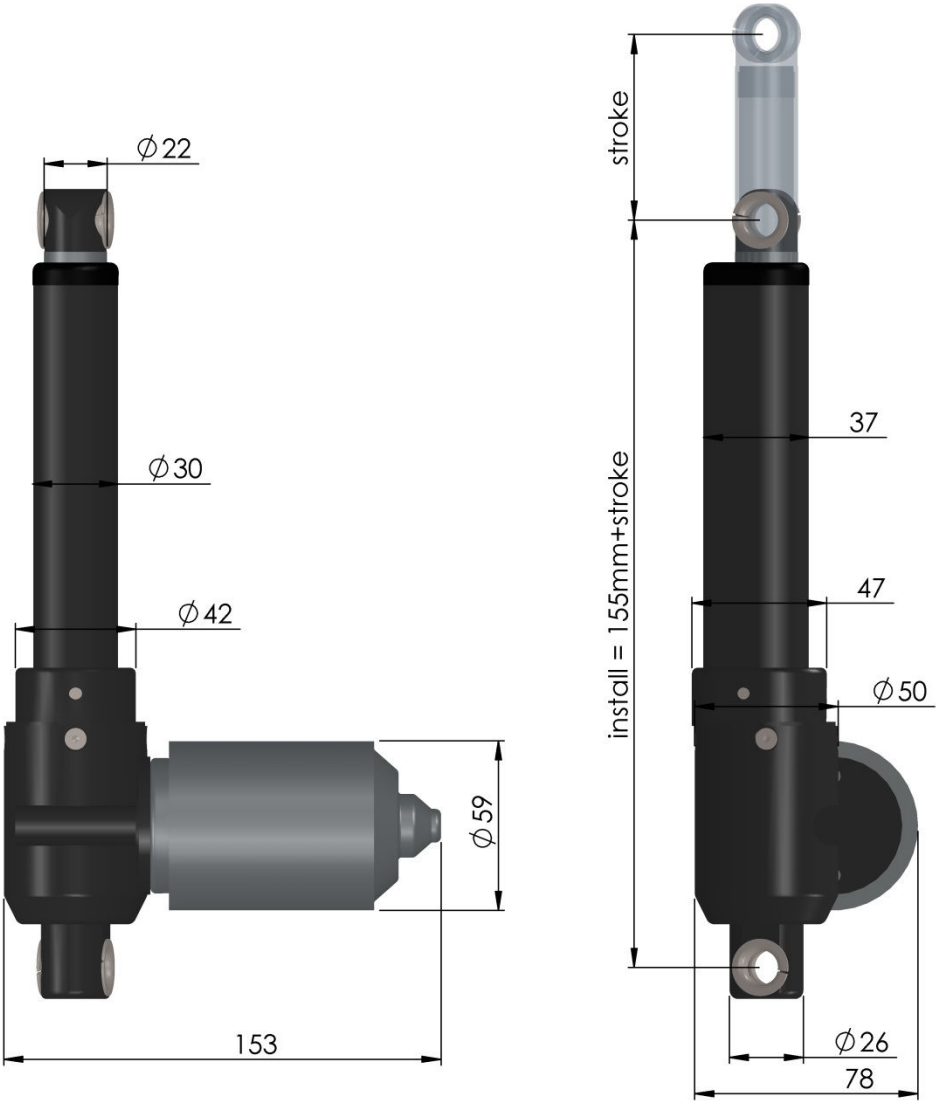
Standard features

Max push force	3000N – 6000N
Max pull force	3000N – 4000N
Max speed (full load)	3,7 – 8,9 mm/s
Max speed (no load)	4,5 – 12,0 mm/s
Min built in length	175mm + stroke
Stroke lengths (mm)	50, 100, 150, 200, 250
IP-class	IPX1
Current consumption (full load)	3,0A – 5,2A
Current consumption (no load)	0,6A – 1,5A
Feedback & switches	Mechanical limit switch
Motor	24VDC standard, fast 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 ² (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, 1 or 2 channels Linear potentiometer
Motor	24VDC compact (outer diameter 45mm)

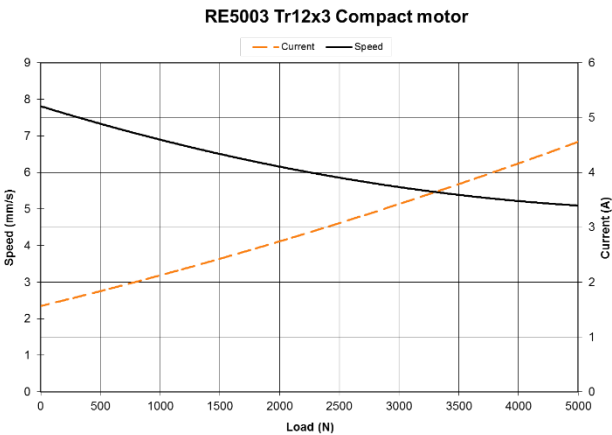
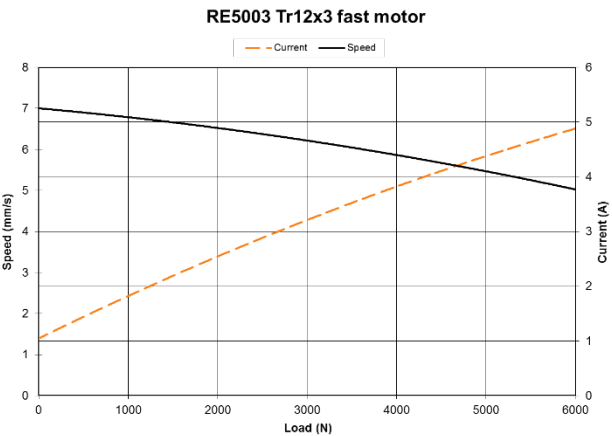
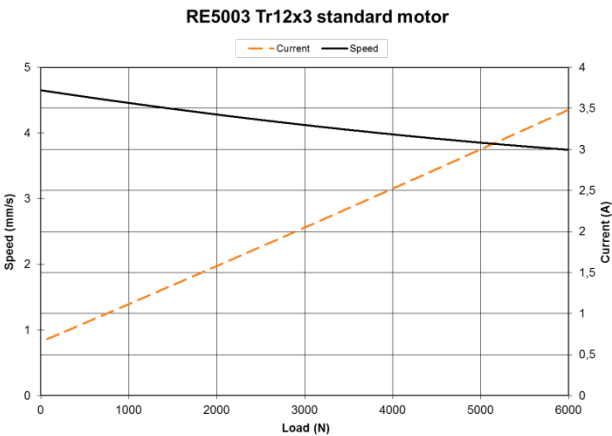
Dimensions



Performance

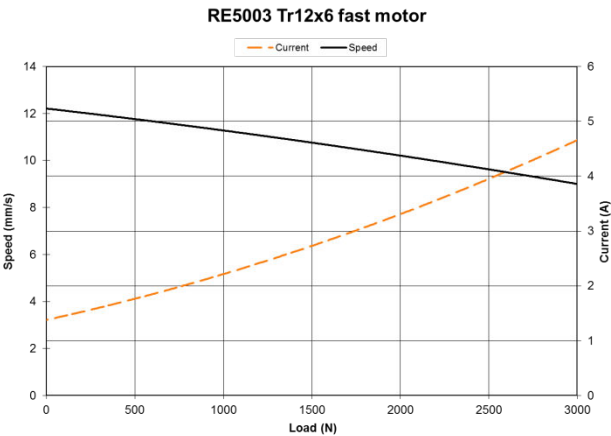
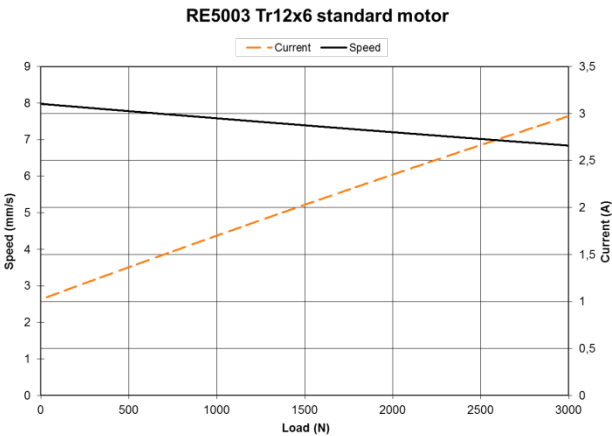
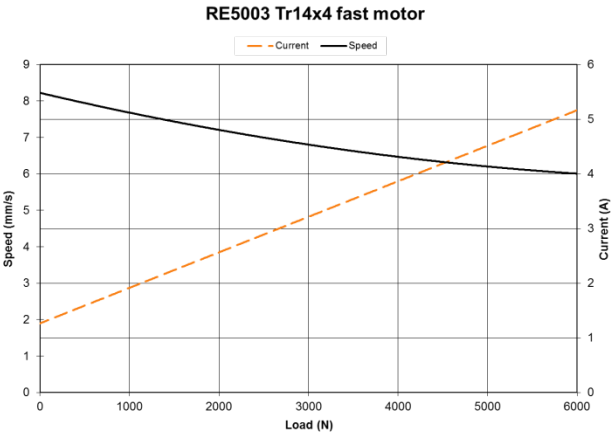
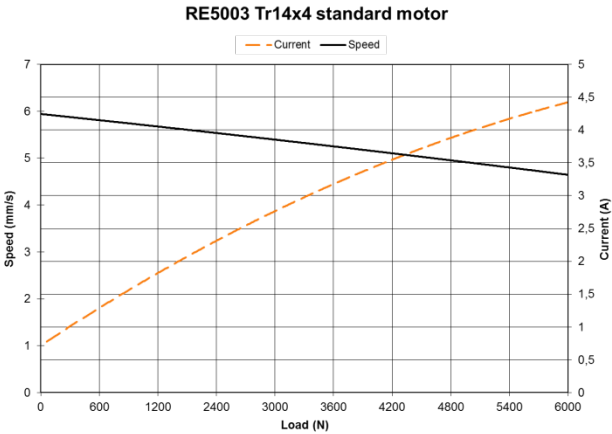
Chart showing force, speed and current for RE5003

Name	Max push force [N]	Speed at no load [mm/s]	Current consumption at no	Min. build-in length, excl. stroke [mm]	Max pull force [N]	Speed at max. load [mm/s]	Current consumption at	Stroke length std [mm]	IP class	Pitch [mm]
RE5003 COMPACT - 3	4000	8	1.5	155	4000	5.5	4.8	50-250	IPX1	3
RE5003 FAST - 2.5	6000	4.5	1	155	4000	4.3	4.5	50-250	IPX1	2.5
RE5003 FAST - 3	6000	7	1	155	4000	5.0	5.0	50-250	IPX1	3
RE5003 FAST - 4	6000	8	1.2	155	4000	6.0	5.2	50-250	IPX1	4
RE5003 FAST - 6	3000	12	1.2	155	3000	8.9	4.8	50-250	IPX1	6
RE5003 STD - 3	6000	4.5	0.6	155	4000	3.7	3.5	50-250	IPX1	3
RE5003 STD - 4	6000	5.5	0.8	155	4000	4.6	4.5	50-250	IPX1	4
RE5003 STD - 6	3000	7.5	1	155	3000	6.8	3.0	50-250	IPX1	6



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

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