



Customizable,
High-Quality, Heavy Duty,
Industrial-Grade Actuators

INDUSTRIAL MOTION



TiMOTION ELECTRONIC LINEAR ACTUATORS – MOTION TECHNOLOGY THAT HELPS PROVIDE A CLEANER, BETTER FUTURE

Many industrial applications require heavy-duty automation on a large scale — especially for agricultural, construction, mining, ventilation, and process control machinery, among others. The technology is out there, and it's only getting better. Equipment manufacturers are increasingly turning to electric linear actuators as a cost-efficient and reliable alternative to previous industry standards, such as hydraulic and pneumatic motion systems. TiMOTION's Industrial Motion product line is shown within this catalog, as well as additional information about what we offer and the full benefits of our linear actuator technology.

JP series

TiMOTION's JP series actuator family is designed with an inline configuration. All the products in the JP series are suited for a wide variety of load requirements. Available with an IP69K rating, it's ideal for industrial applications used in harsh environments where dust and liquid ingress protection is necessary. The JP series is specifically designed for use in applications requiring tight envelopes, without sacrificing power or performance.



JP3 - Page 16

Max. load
2,000N (push/pull)

Max. speed at max. load
3.5mm/s

Max. speed at no load
23.5mm/s

Retracted length
≥ Stroke + 217mm

IP rating
IP69K



JP4 - Page 18

Max. load
4,500N (push); 3,000N (pull)

Max. speed at max. load
2.5mm/s

Max. speed at no load
27.5mm/s

Retracted length
≥ Stroke + 289mm

IP rating
IP69K



NEW

JP5 - Page 20

Max. load
1,500N (push/pull)

Max. speed at max. load
5mm/s

Max. speed at no load
7.3mm/s

Retracted length
≥ Stroke + 160mm

IP rating
IP69K



NEW

JP6 - Page 22

Max. load
3,000N (push/pull)

Max. speed at max. load
3.5mm/s

Max. speed at no load
10.8mm/s

Retracted length
≥ Stroke + 210mm

IP rating
IP69K



NEW

JP7 - Page 24

Max. load

4,500N (push/pull)

Max. speed at max. load

4mm/s

Max. speed at no load

19mm/s

Retracted length

≥ Stroke + 255mm

IP rating

IP69K

MA series

TiMOTION's MA series actuator family is specifically designed for harsh working environments, requiring a durable, long-life solution. All of our MA series actuators are ideal for heavy-duty machinery, industrial equipment, and off-road vehicles. Also, an optional IP69K protection rating allows them to withstand high-pressure water jets, and the ingress of dust and other solid contaminants.



MA1 - Page 26

Max. load

ACME screw: 8,000N (push/pull)
Ball screw: 4,500N (push/pull)

Max. speed at max. load

5.7mm/s (ACME screw, DC motor)
14.8mm/s (Ball screw, DC motor)

Max. speed at no load

31.2mm/s (ACME screw, DC motor)
59mm/s (Ball screw, DC motor)

Retracted length

≥ Stroke + 160mm (ACME screw, without POT)
≥ Stroke + 201mm (Ball screw, without POT)

IP rating

IP69K



MA2 - Page 28

Max. load

8,000N (push); 4,000N (pull)

Max. speed at max. load

5.1mm/s

Max. speed at no load

52.5mm/s

Retracted length

≥ Stroke + 131mm

IP rating

IP69K



MA3 - Page 30

Max. load

16,000N (push/pull)

Max. speed at max. load

6.8mm/s

Max. speed at no load

172.5mm/s

Retracted length

≥ Stroke + 200mm

IP rating

IP69K



MA4 - Page 32

Max. load

2,500N (push/pull)

Max. speed at max. load

4.7mm/s

Max. speed at no load

46.1mm/s

Retracted length

≥ 215mm
(depending on chosen options)

IP rating

IP69K



MA5 - Page 34

Max. load

3,500N (push); 2,000N (pull)

Max. speed at max. load

2.4mm/s

Max. speed at no load

56.5mm/s

Retracted length

≥ 200mm

(depending on chosen options)

IP rating

IP69K



MA6 - Page 36

Max. load

8,000N (push/pull)

Max. speed at max. load

6.2mm/s

Max. speed at no load

64mm/s

Retracted length

≥ Stroke + 162mm

IP rating

IP69K

SR series

TiMOTION's SR series actuator family is specially designed for light industrial applications requiring quiet performance. Engineered with compact dimensions, the SR series is an ideal choice for pergolas, louvers, and a variety of other bioclimatic applications. With an optional IP rating up to IP69K, the SR series actuators are designed to perform in even the harshest of weather conditions.



SR1 - Page 38

Max. load

4,000N (push/pull)

Max. speed at max. load

3mm/s

Max. speed at no load

7,4mm/s

Retracted length

≥ 230mm

IP rating

IP69K



TA series

TiMOTION's TA series actuator family is a well-developed product line for the industrial market segment. All the products in the TA series have a compact design servicing a wide variety of demands such as high-force, high-speed, and low noise requirements. The TA series is recommended for use in tight spaces where force and performance cannot be sacrificed.



TA2 - Page 40

Max. load
1,000N (push/pull)

Max. speed at max. load
7.6mm/s

Max. speed at no load
67.5mm/s

Retracted length
≥ Stroke + 105mm
(without output signals)

IP rating
IP66M



TA2P - Page 42

Max. load
3,500N (push); 2,000N (pull)

Max. speed at max. load
2.4mm/s

Max. speed at no load
56.5mm/s

Retracted length
≥ Stroke + 108mm
(with Hall sensors or without
output signals)

IP rating
IP66M



TA2PAC - Page 44

Max. load
2,000N (push/pull)

Max. speed at max. load
7.5mm/s

Max. speed at no load
52mm/s

Retracted length
> 235mm
(depending on chosen options)

IP rating
IP66D



TA16 - Page 46

Max. load
4,500N (push); 2,500N (pull)

Max. speed at max. load
4.9mm/s

Max. speed at no load
56.5mm/s

Retracted length
≥ Stroke + 112mm

IP rating
IP66M



TA21 - Page 48

Max. load
10,000N (push); 6,000N (pull)

Max. speed at max. load
6.3mm/s

Max. speed at no load
24.7mm/s

Retracted length
≥ 67mm



TA23 - Page 50

Max. load
10,000N (push); 4,000N (pull)

Max. speed at max. load
3.2mm/s

Max. speed at no load
39mm/s

Retracted length
≥ Stroke + 163mm

IP rating
IP66W



TA29AC - Page 52

Max. load
4,000N (push/pull)

Max. speed at max. load
4.5mm/s

Max. speed at no load
9.5mm/s

Retracted length
> 302mm
(depending on chosen options)

IP rating
IP66W



TA38M - Page 54

Max. load
2,000N (push); 1,500N (pull)

Max. speed at max. load
6.2mm/s

Max. speed at no load
20mm/s

Retracted length
≥ 160mm
(depending on chosen options)

IP rating
IP66

VN series

TiMOTION's VN series is designed specifically for automated ventilation systems. Whether trying to improve a buildings indoor air quality during lower peak summer temperatures, or enhancing the interior climate in livestock houses, our VN series can meet the growing demand for ventilation applications. All the actuators in our VN series have a robust metallic appearance with options of up to an IP66 rating.



VN1 - Page 56

Max. load

3,500N (push); 2,000N (pull)

Max. speed at max. load

3.8mm/s

Max. speed at no load

13mm/s

Retracted length

≥ 205mm (DC version, w/o T-Smart; depending on chosen options)

≥ 432mm (AC version, w/o T-Smart; depending on chosen options)

IP rating

IP66



VN2 - Page 58

Max. load

500N (push/pull)

Max. speed at max. load

8.35mm/s

Max. speed at no load

10.8mm/s

Retracted length

≥ Stroke + 189mm

IP rating

IP66



VN3 - Page 60

Max. load

3,000N (push/pull)

Max. speed at max. load

3.5mm/s

Max. speed at no load

6.8mm/s

Retracted length

≥ Stroke + 248mm

IP rating

IP66

TL series

TiMOTION's TL (lifting column) series is comprised of two or three extruded aluminum segments. Their rectangular profile provides the system great stability, along with customization options to support a wide stroke range while maintaining a compact retracted length. Our electric lifting columns are ideal for industrial applications such as height-adjustable workstations, monitor stands, and lifting tables.



TL3 - Page 62

- Max. load**
4,000N (push)
- Self-locking force**
4,000N
- Max. dynamic bending moment**
1,000Nm
- Max. speed at max. load**
13.7mm/s
- Max. speed at no load**
39mm/s
- Retracted length**
 $\geq \text{Stroke}/2 + 150\text{mm}$
- IP rating**
IPX6



TL17 - Page 64

- Max. load**
2,000N (push)
- Max. dynamic bending moment**
250Nm
- Max. speed at max. load**
11.5mm/s
- Max. speed at no load**
41mm/s
- Retracted length**
 $\geq \text{Stroke}/2 + 150\text{mm}$
- IP rating**
IPX6



TL18 - Page 66

- Max. load**
4,500N (push)
- Self-locking force**
4,500N
- Max. dynamic bending moment**
250Nm
- Max. speed at max. load**
6.6mm/s
- Max. speed at no load**
45mm/s
- Retracted length**
 $\geq \text{Stroke} + 147\text{mm}$



TL18AC - Page 68

- Max. load**
4,500N (push)
- Self-locking force**
4,500N
- Max. dynamic bending moment**
250Nm
- Max. speed at max. load**
6.6mm/s
- Max. speed at no load**
45mm/s
- Retracted length**
 $\geq 383\text{mm}$

TGM

series

TiMOTION's TGM (Gear Motor) series is primarily designed for height-adjustable table applications. The TGM products allow for fast, smooth and quiet adjustments of built-in spindles through the use of external limit switches. Additionally, a single shaft connection allows for mechanical synchronization of dual spindles.



TGM1 - Page 70

Max. rated torque

7.4Nm

Max. speed at max. load

72RPM ($\pm 5\%$)

Max. speed at no load

262.5RPM ($\pm 5\%$)

Output signals

Hall sensors



TGM2 - Page 72

Max. rated torque

18.3Nm

Max. speed at max. load

60RPM ($\pm 5\%$)

Max. speed at no load

108RPM ($\pm 5\%$)

Output signals

Hall sensors



TGM3 - Page 74

Max. rated torque

4.6Nm

Max. speed at max. load

61RPM ($\pm 5\%$)

Max. speed at no load

259RPM ($\pm 5\%$)

Output signals

Hall sensors



TGM4 - Page 76

Max. rated torque

6Nm

Max. speed at max. load

98RPM ($\pm 5\%$)

Max. speed at no load

219RPM ($\pm 5\%$)

Output signals

Hall sensors



TGM7 - Page 78

Max. rated torque

7.2Nm

Max. speed at max. load

78RPM ($\pm 5\%$)

Max. speed at no load

355RPM ($\pm 5\%$)

Output signals

Hall sensors



TIG1 - Page 80

Max. rated torque

60Nm

Max. speed at max. load

24RPM

Max. speed at no load

40RPM

Output signals

Hall sensor(s)

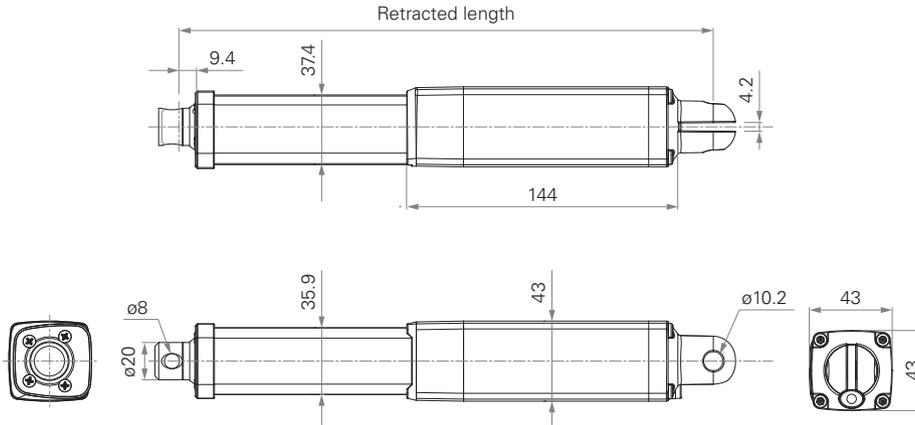
JP3

series



Standard Dimension

(mm)



General Features

Max. load	2,000N (push/pull)
Max. speed at max. load	3.5mm/s
Max. speed at no load	23.5mm/s
Retracted length	≥ Stroke + 217mm
IP rating	IP69K
Certificate	UL73
Stroke	20~1000mm

Output signals	Hall sensors
Voltage	12/24V DC; 12/24V DC (PTC)
Color	Black, grey
Operational temperature range	-5°C~+65°C
Operational temperature range at full performance	+5°C~+45°C
Storage temperature range	-40°C~+70°C

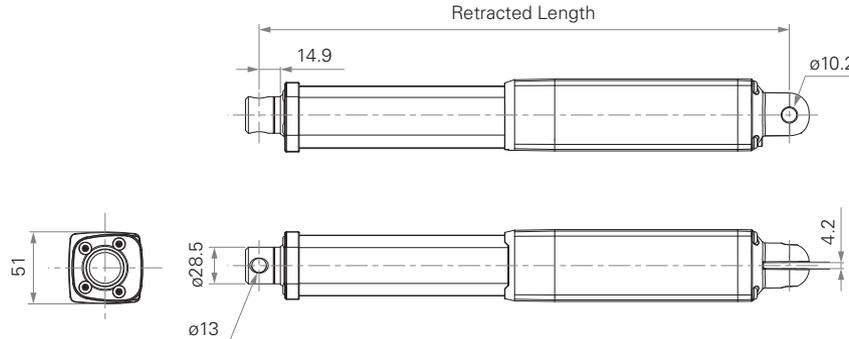
JP4

series



Standard Dimension

(mm)



General Features

Max. load	4,500N (push); 3,000N (pull)	Output signals	Hall sensors
Max. speed at max. load	2.5mm/s	Voltage	12/24V DC; 12/24V DC (PTC)
Max. speed at no load	27.5mm/s	Color	Black, grey
Retracted length	≥ Stroke + 289mm	Operational temperature range	-5°C~+65°C
IP rating	IP69K	Operational temperature range at full performance	+5°C~+45°C
Certificate	UL73	Storage temperature range	-40°C~+70°C
Stroke	20~1000mm		

JP5

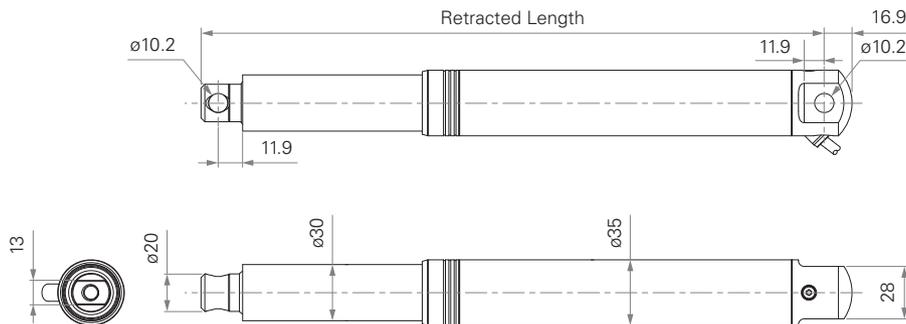
series



NEW

Standard Dimension

(mm)



General Features

Max. load	1,500N (push/pull)
Max. speed at max. load	5mm/s
Max. speed at no load	7.3mm/s
Retracted length	≥ Stroke + 160mm
IP rating	IP69K
Stroke	25~1000mm

Output signals	Hall sensors
Voltage	12V DC
Operational temperature range	-10°C~+65°C
Operational temperature range at full performance	+5°C~+45°C
Storage temperature range	-40°C~+85°C

JP6

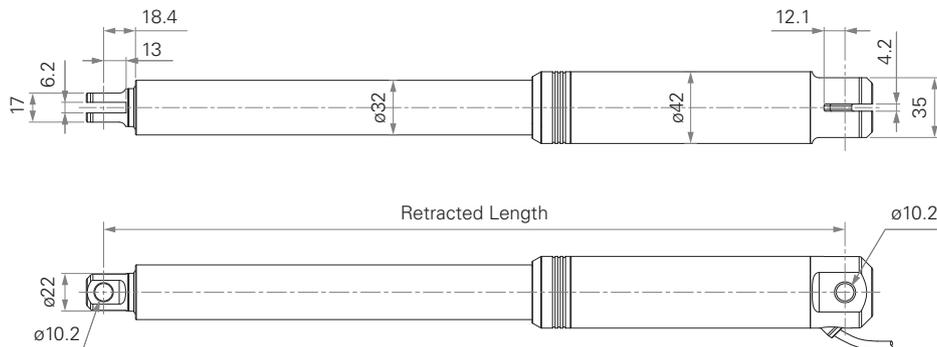
series



NEW

Standard Dimension

(mm)



General Features

Max. load 3,000N (push/pull)

Max. speed at max. load 3.5mm/s

Max. speed at no load 10.8mm/s

Retracted length \geq Stroke + 210mm

IP rating IP69K

Stroke 25~1000mm

Output signals Hall sensors

Voltage 12V DC

Operational temperature range -10°C~+65°C

Operational temperature range at full performance +5°C~+45°C

Storage temperature range -40°C~+85°C

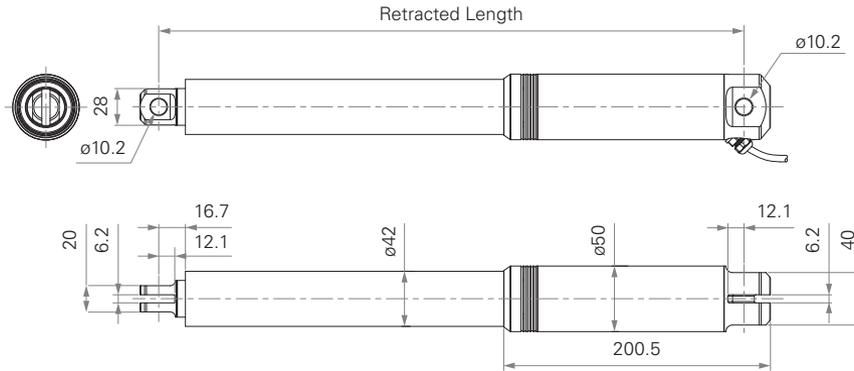
JP7

series



NEW

Standard Dimension (mm)



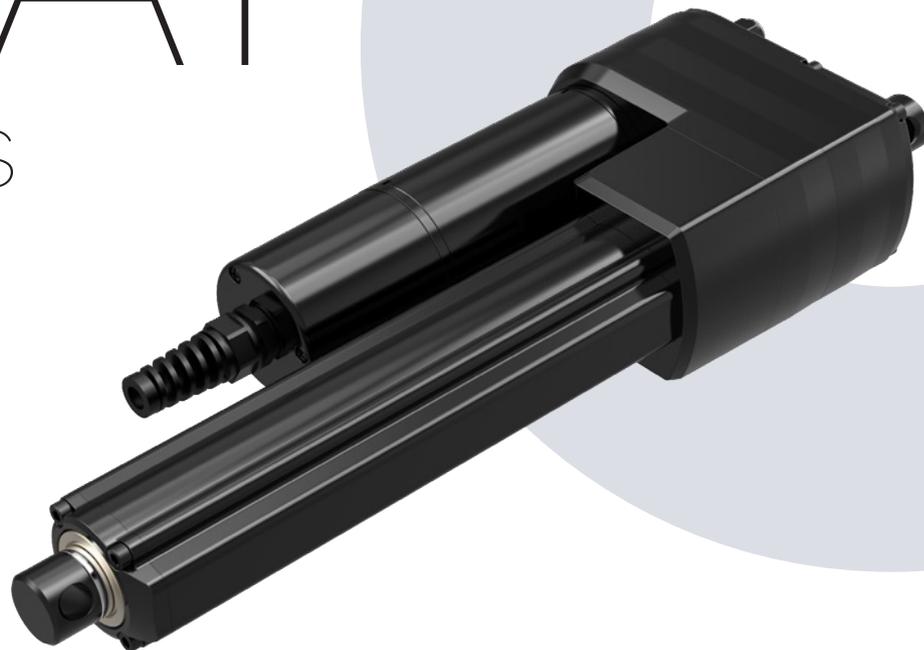
General Features

Max. load	4,500N (push/pull)
Max. speed at max. load	4mm/s
Max. speed at no load	19mm/s
Retracted length	\geq Stroke + 255mm
IP rating	IP69K
Stroke	25~1000mm

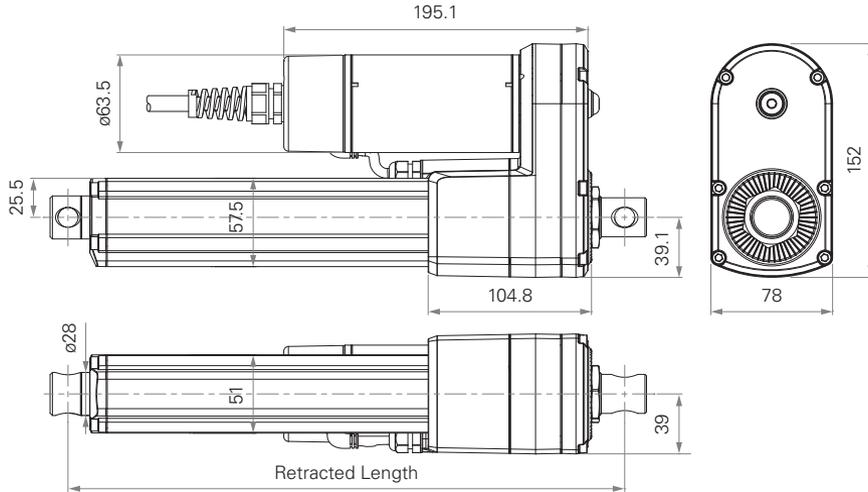
Output signals	Hall sensors
Voltage	12V DC
Operational temperature range	-10°C~+65°C
Operational temperature range at full performance	+5°C~+45°C
Storage temperature range	-40°C~+85°C

MA1

series



Standard Dimension (mm)

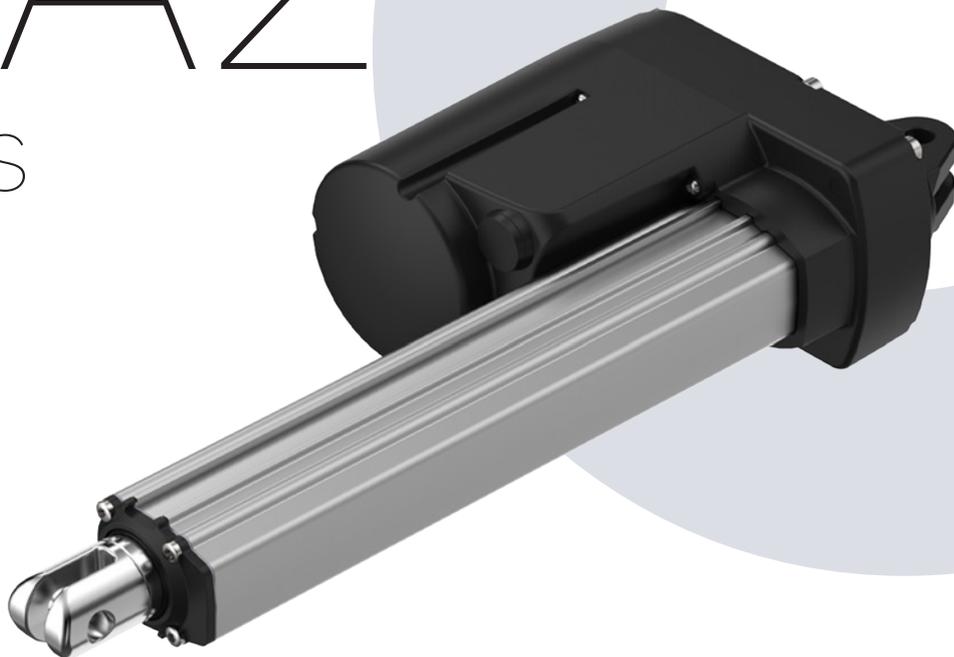


General Features

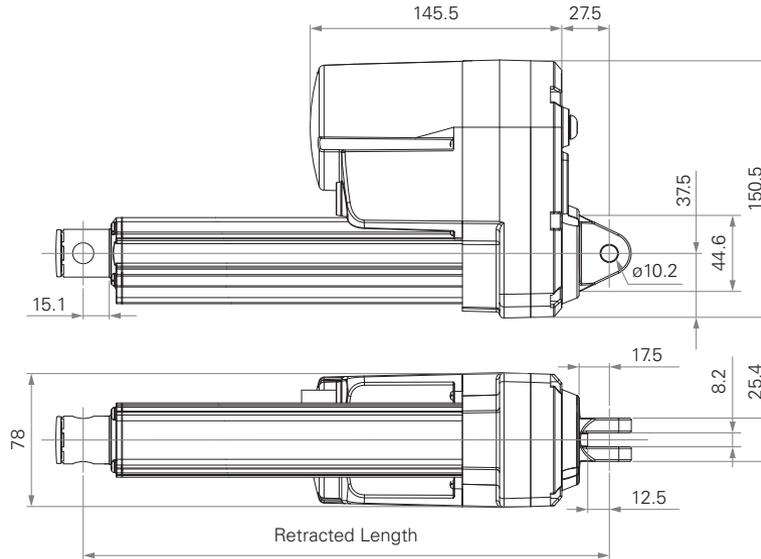
Max. load	ACME screw: 8,000N (push/pull); Ball screw: 4,500N (push/pull)	Output signals	Mechanical pot., NPN Hall sensors, PNP Hall sensors
Max. speed at max. load	5.7mm/s (ACME screw, DC motor); 14.8mm/s (Ball screw, DC motor)	Options	Overload clutch, motor brake, mechanical brake
Max. speed at no load	31.2mm/s (ACME screw, DC motor); 59mm/s (Ball screw, DC motor)	Voltage	12/24/36/48V DC; 115/230V AC
Retracted length	≥ Stroke + 160mm (ACME screw, without POT); ≥ Stroke + 201mm (Ball screw, without POT)	Spindle	ACME or Ball screw
IP rating	IP69K	Color	Black
Certificate	UL73, EMC	Operational temperature range	-40°C~+85°C
Stroke	20~1000mm (ACME screw); 20~800mm (Ball screw)	Operational temperature range at full performance	+5°C~+45°C
			Electromagnetic brake option
			Higher duty cycle (25%), corrosion proof
			Manual drive

MA2

series



Standard Dimension (mm)

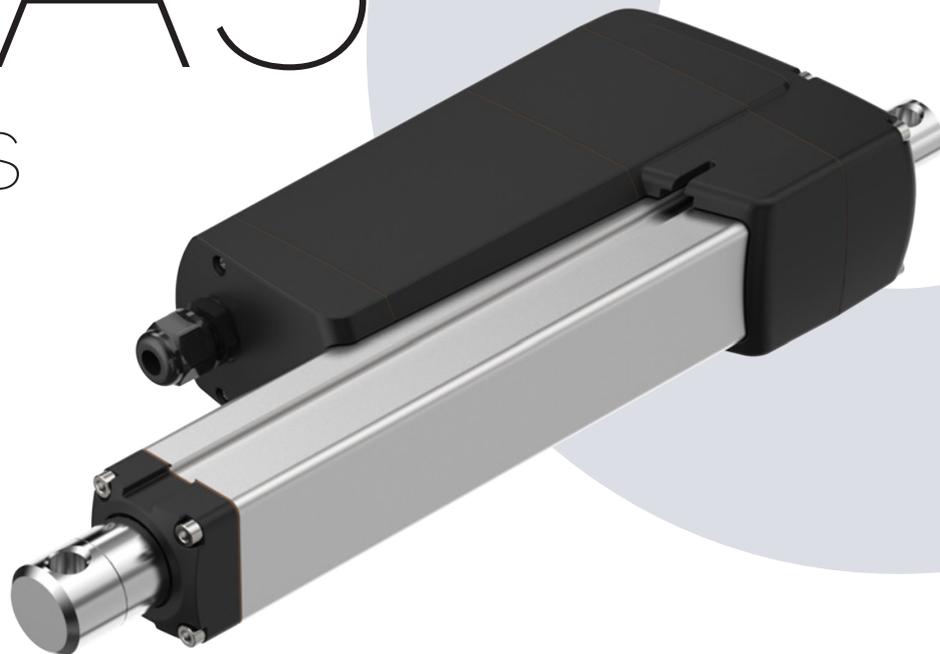


General Features

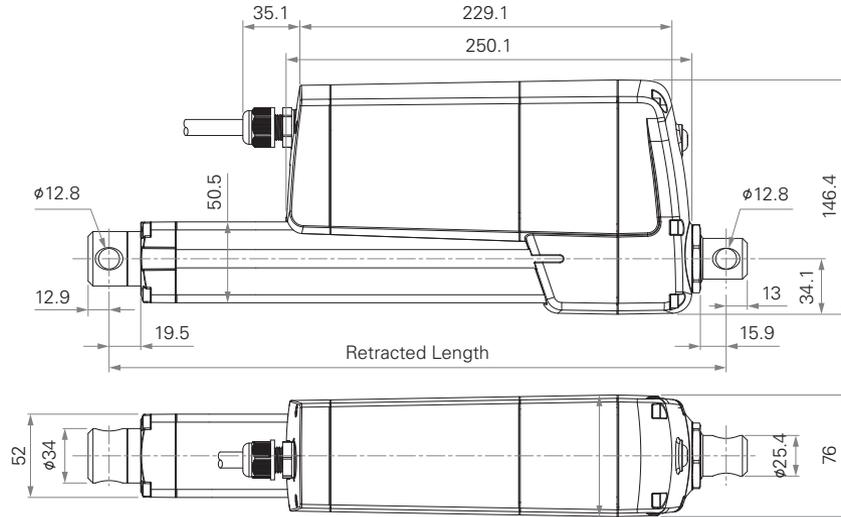
Max. load	8,000N (push); 4,000N (pull)	Output signals	Adjustable Reed switch, mechanical Pot., NPN Hall sensors
Max. speed at max. load	5.1mm/s	Voltage	12/24/36/48V DC; 12/24/36/48V DC (thermal control)
Max. speed at no load	52.5mm/s	Operational temperature range	-40°C~+85°C
Retracted length	≥ Stroke + 131mm	Operational temperature range at full performance	+5°C~+45°C
IP rating	IP69K		
Certificate	UL73, EMC		
Stroke	25~1000mm		
			Manual drive, T-Smart available

MA3

series



Standard Dimension (mm)

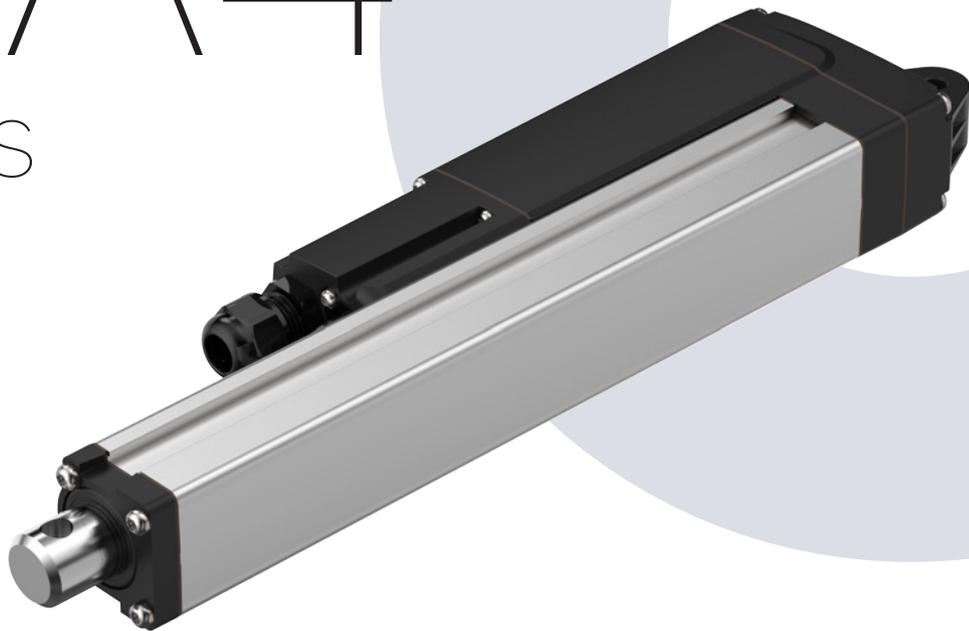


General Features

Max. load	16,000N (push/pull)	Output signals	Mechanical Pot., adjustable Reed switch, NPN Hall sensors, PNP Hall sensors
Max. speed at max. load	6.8mm/s	Voltage	12/24/36/48V DC; 12/24V DC (thermal switch)
Max. speed at no load	172.5mm/s	Operational temperature range	-40°C~+85°C
Retracted length	≥ Stroke + 200mm	Operational temperature range at full performance	+5°C~+45°C
IP rating	IP69K		
Certificate	UL73, EMC		
Stroke	25~1000mm		
			Manual drive, Ball screw spindle

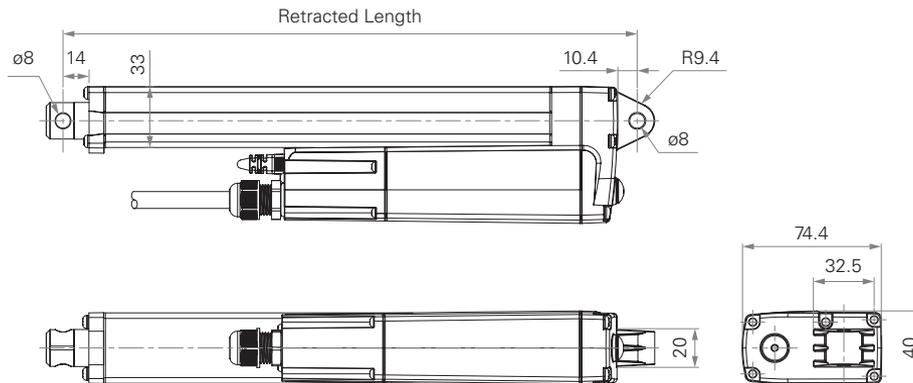
MMA4

series



Standard Dimension

(mm)

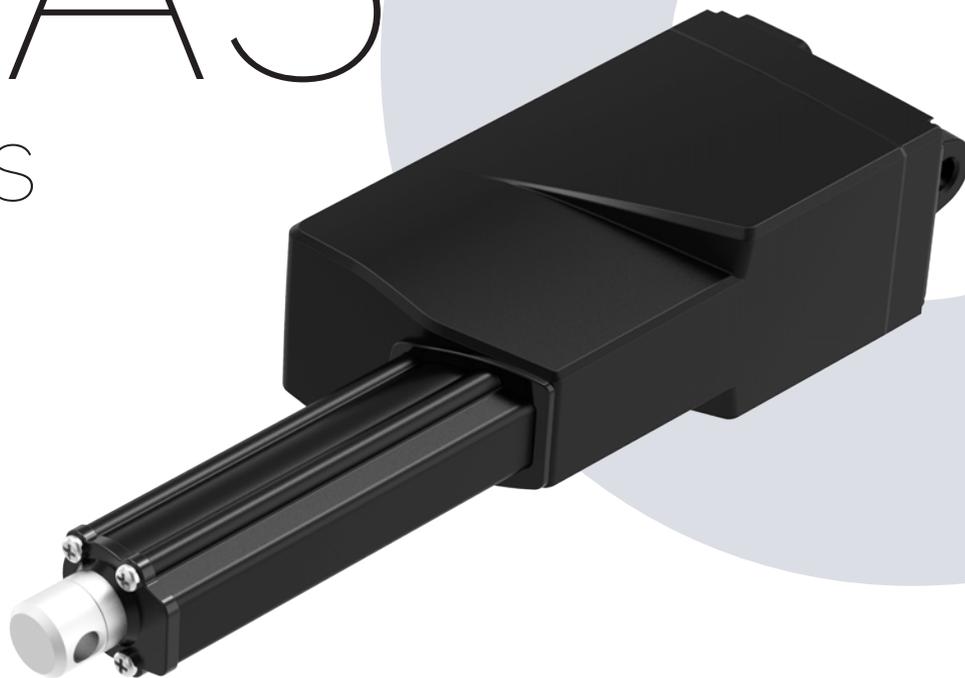


General Features

Max. load	2,500N (push/pull)	Output signals	Mechanical Pot., NPN Hall sensors
Max. speed at max. load	4.7mm/s	Voltage	12/24V DC; 12/24V DC (thermal switch)
Max. speed at no load	46.1mm/s	Operational temperature range	-40°C~+85°C
Retracted length	≥ 215mm (depending on chosen options)	Operational temperature range at full performance	+5°C~+45°C
IP rating	IP69K	Manual drive	
Stroke	25~1000mm		

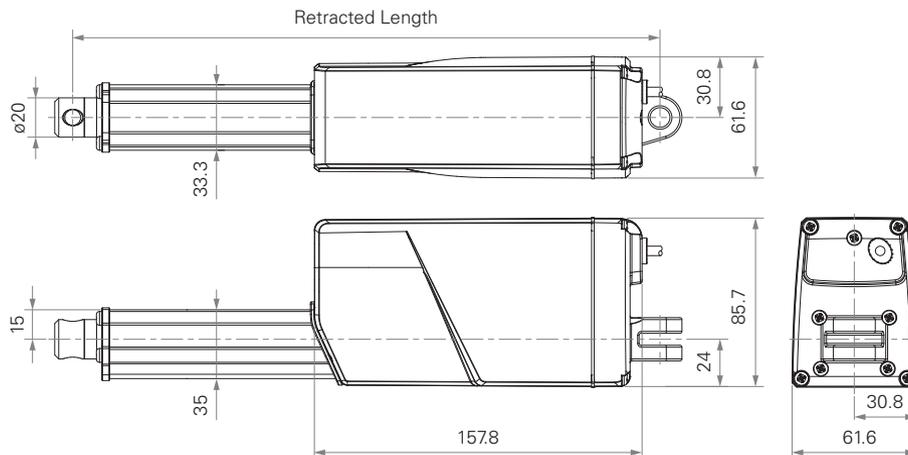
MMA5

series



Standard Dimension

(mm)

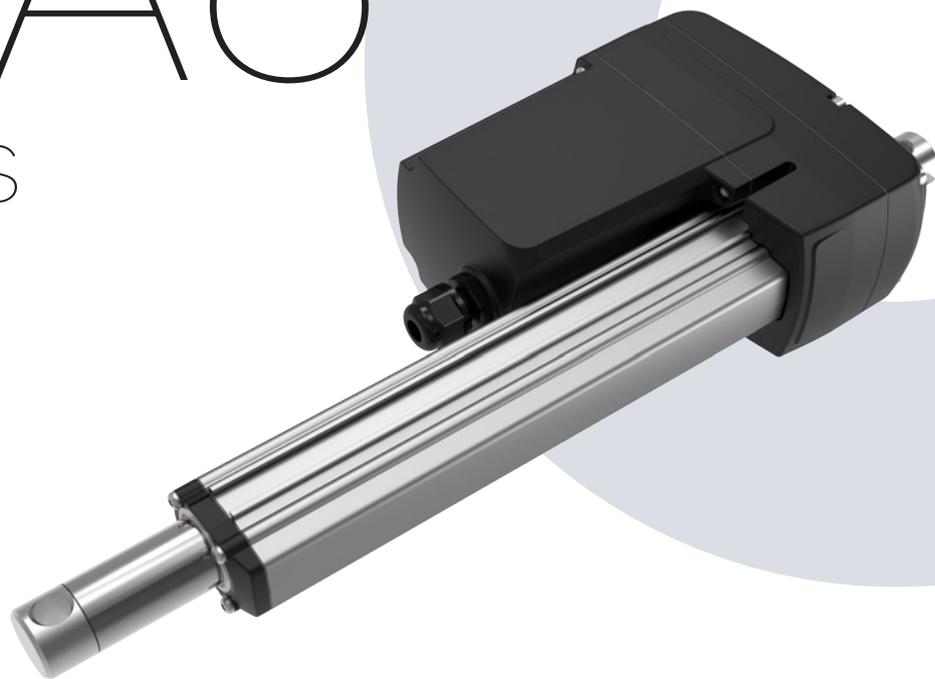


General Features

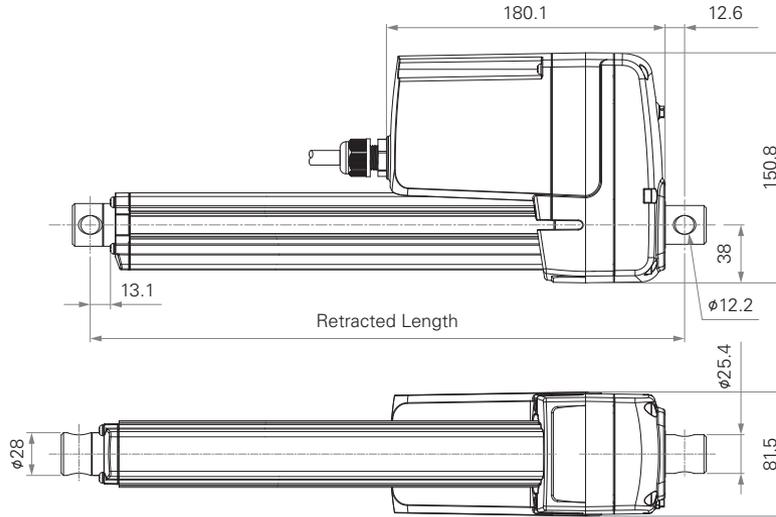
Max. load	3,500N (push); 2,000N (pull)	Output signals	Mechanical pot., NPN Hall sensor
Max. speed at max. load	2.4mm/s	Options	Grease chamber
Max. speed at no load	56.5mm/s	Voltage	12/24/48V DC; 12/24/48V DC (PTC)
Retracted length	≥ 200mm (depending on chosen options)	Operational temperature range	-25°C~+65°C
IP rating	IP69K	Operational temperature range at full performance	+5°C~+45°C
Stroke	20~1000mm		

MMA6

series



Standard Dimension (mm)



General Features

Max. load	8,000N (push/pull)
Max. speed at max. load	6.2mm/s
Max. speed at no load	64mm/s
Retracted length	≥ Stroke + 162mm
IP rating	IP69K
Stroke	25~1000mm

Output signals	Hall sensor(s), mechanical Pot., adjustable Reed switch, NPN Hall sensors
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Voltage	12/24V DC; 12/24V DC (thermal switch)
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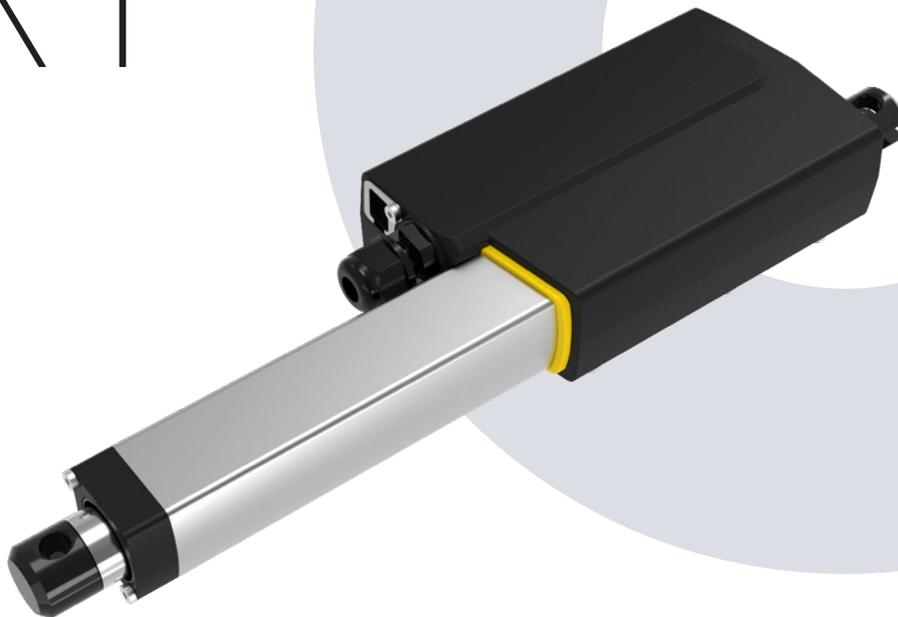
Operational temperature range	-40°C~+85°C
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Operational temperature range at full performance	+5°C~+45°C
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Manual drive

SR1

series

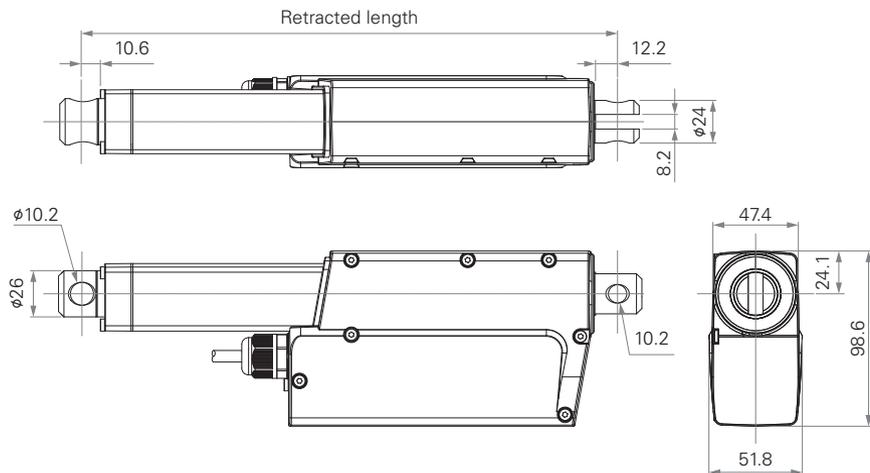


NEW



Standard Dimension

(mm)



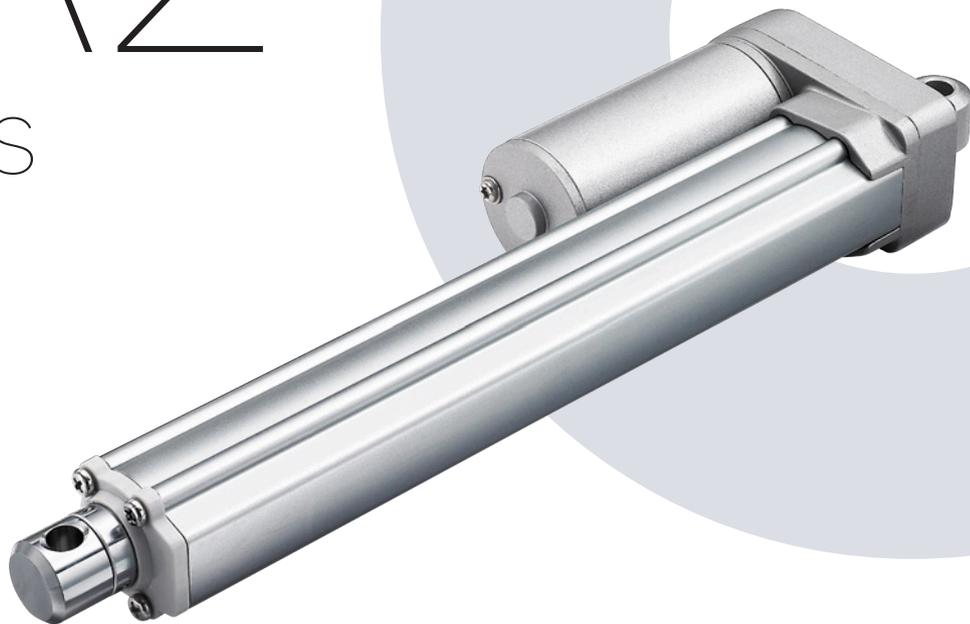
General Features

Max. load	4,000N (push/pull)
Max. speed at max. load	3mm/s
Max. speed at no load	7.4mm/s
Retracted length	≥ 230 mm
IP rating	IP69K
Stroke	50~1000mm

Output signals	Mechanical pot., Hall sensors
Voltage	12/24V DC; 12/24V DC (PTC)
Operational temperature range	-25°C~+65°C
Operational temperature range at full performance	+5°C~+45°C
Low noise	

TA2

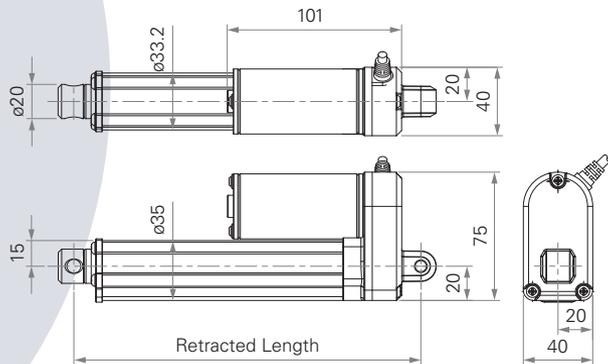
series



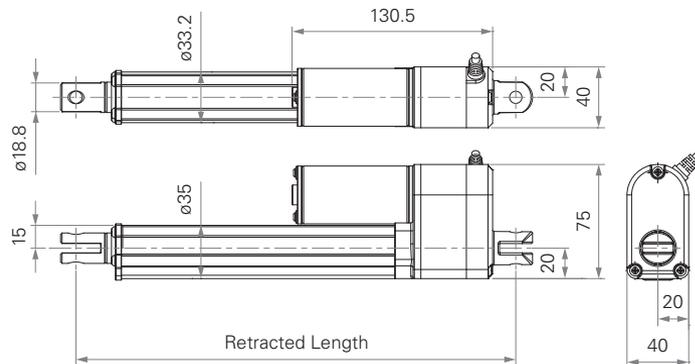
Standard Dimension

(mm)

Without Output Signals



With Output Signals



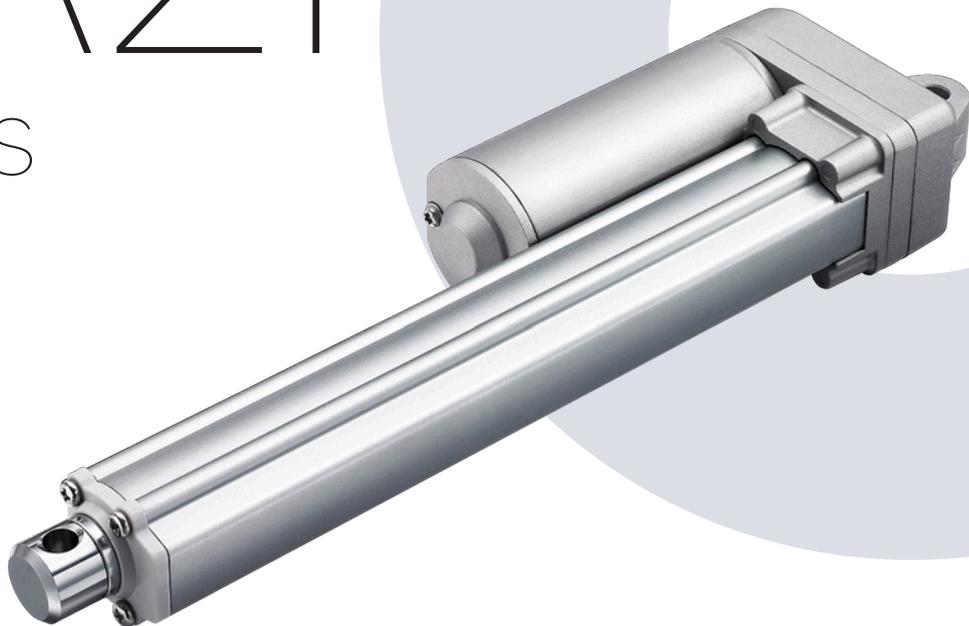
General Features

Max. load	1,000N (push/pull)
Max. speed at max. load	7.6mm/s
Max. speed at no load	67.5mm/s
Retracted length	≥ Stroke + 105mm (without output signals)
IP rating	IP66M
Certificate	EMC
Stroke	20~1000mm

Output signals	Mechanical pot., embedded reed switch, NPN Hall sensor, Adjustable Reed switch
Voltage	12/24/36/48V DC; 12/24/36/48V DC (PTC)
Color	Silver
Operational temperature range	+5°C~+45°C (Load < 500N); -25°C~+65°C (Load ≥ 500N)
Operational temperature range at full performance	+5°C~+45°C

TA2P

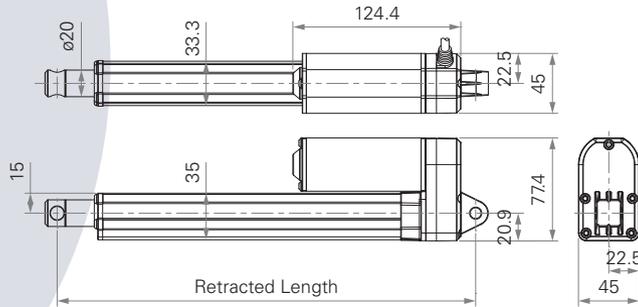
series



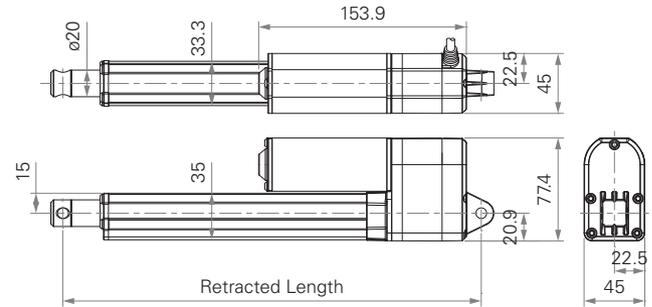
Standard Dimension

(mm)

Without Sensor or with Hall Sensors



With POT or Reed Sensor



General Features

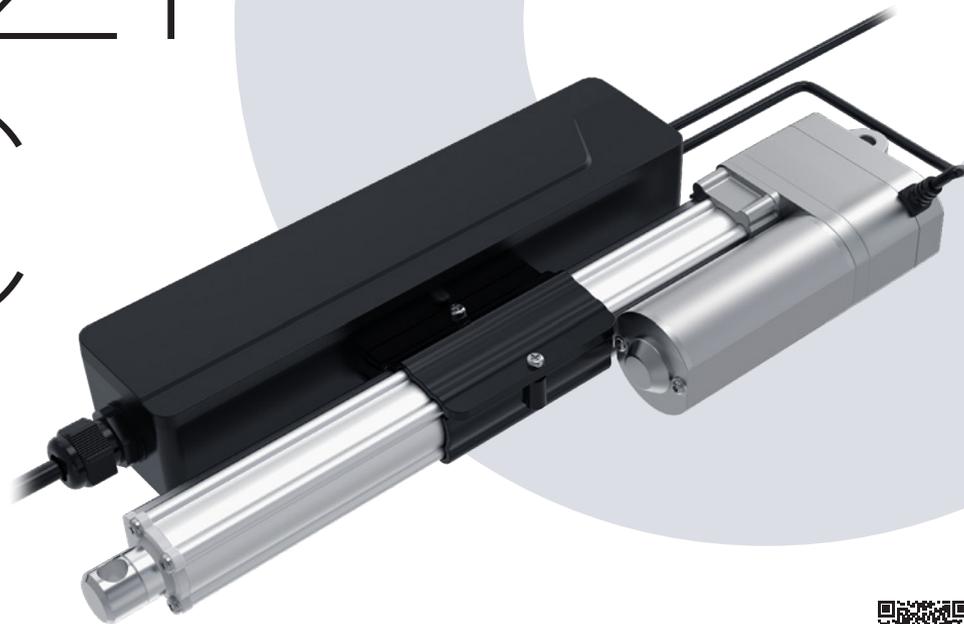
Max. load	3,500N (push); 2,000N (pull)
Max. speed at max. load	2.4mm/s
Max. speed at no load	56.5mm/s
Retracted length	\geq Stroke + 108mm (with Hall sensors or without output signals)
IP rating	IP66M
Certificate	UL73
Stroke	20~1000mm

Output signals	Mechanical pot., NPN Hall sensor
Voltage	12/24/36/48V DC; 12/24/48V DC (PTC)
Color	Silver
Operational temperature range	-25°C~+65°C
Operational temperature range at full performance	+5°C~+45°C

TA2P

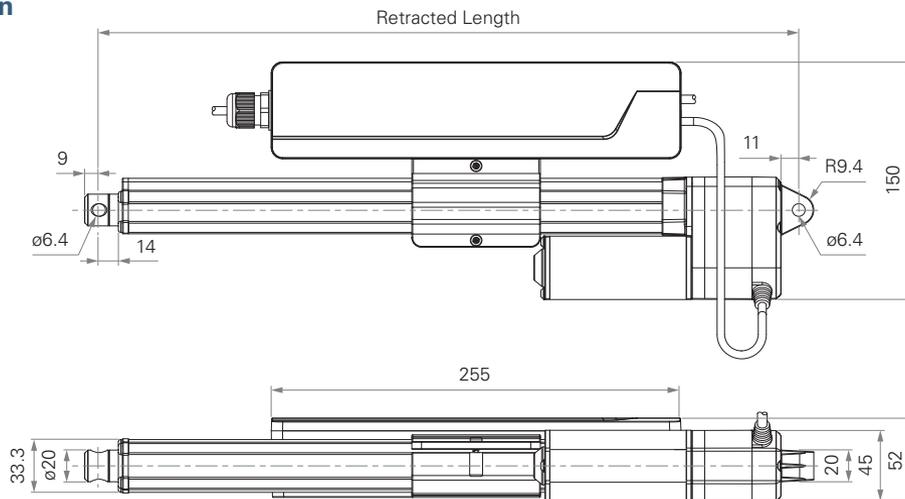
AC

series



Standard Dimension

(mm)



General Features

Max. load	2,000N (push/pull)	Stroke	20~1000mm
Max. speed at max. load	7.5mm/s	Output signals	POT
Max. speed at no load	52mm/s	Voltage	100~240V AC
Retracted length	> 235mm (depending on chosen options)	Operational temperature range	-25°C~+65°C
IP rating	IP66D	Operational temperature range at full performance	+5°C~+45°C

TA16

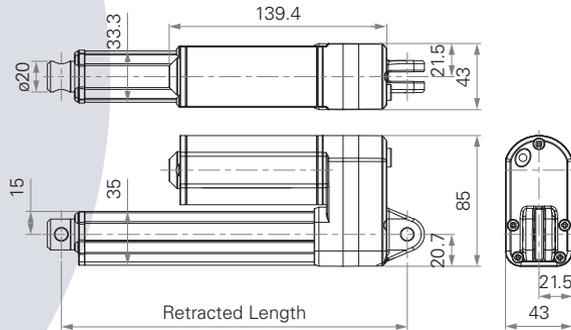
series



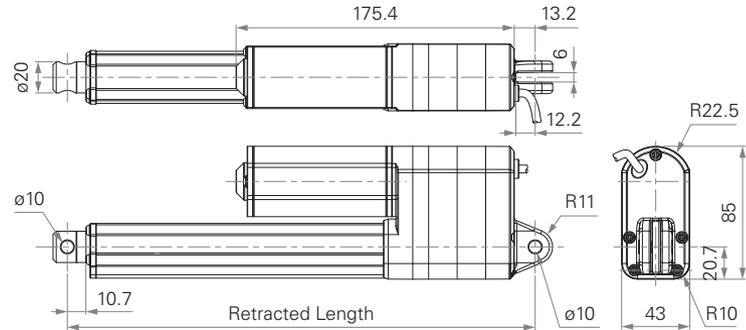
Standard Dimension

(mm)

Without Output Signal or with Hall Sensors



With POT



General Features

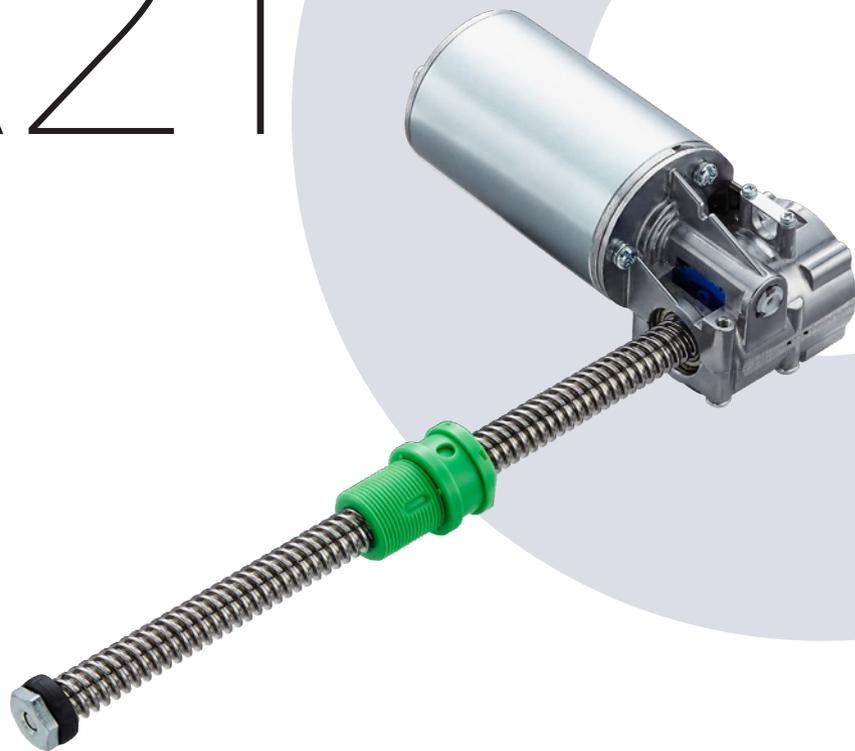
Max. load	4,500N (push); 2,500N (pull)
Max. speed at max. load	4.9mm/s
Max. speed at no load	56.5mm/s
Retracted length	≥ Stroke + 112mm
IP rating	IP66M
Certificate	EMC
Stroke	20~600mm

Output signals	Pot., NPN Hall sensors
Options	Motor brake
Voltage	12/24/36/48V DC; 12/24/48V DC (PTC)
Color	Silver
Operational temperature range at full performance	+5°C~+45°C

With very low noise, small size for easy installation

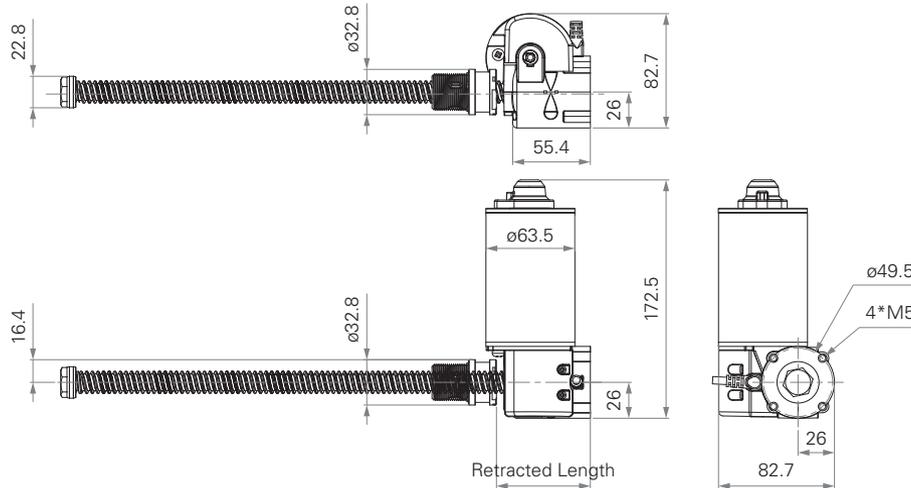
TA21

series



Standard Dimension

(mm)

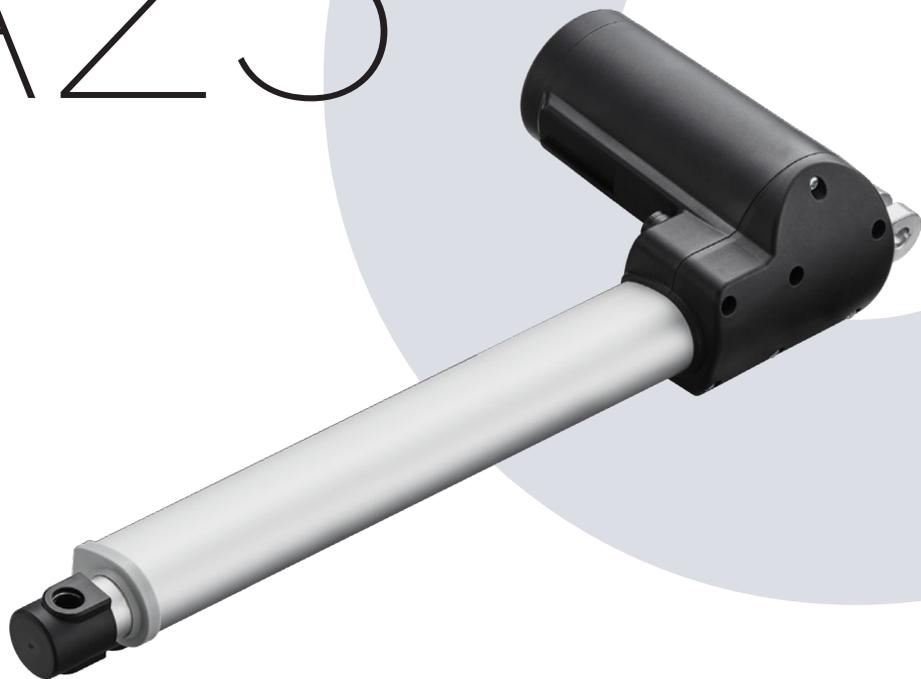


General Features

Max. load	10,000N (push); 6,000N (pull)	Output signals	Hall sensors, Reed sensor
Max. speed at max. load	6.3mm/s	Voltage	24V DC; 24V DC (UL)
Max. speed at no load	24.7mm/s	Color	Black, grey
Retracted length	≥ 67mm		
Stroke	25~400mm		High design flexibility

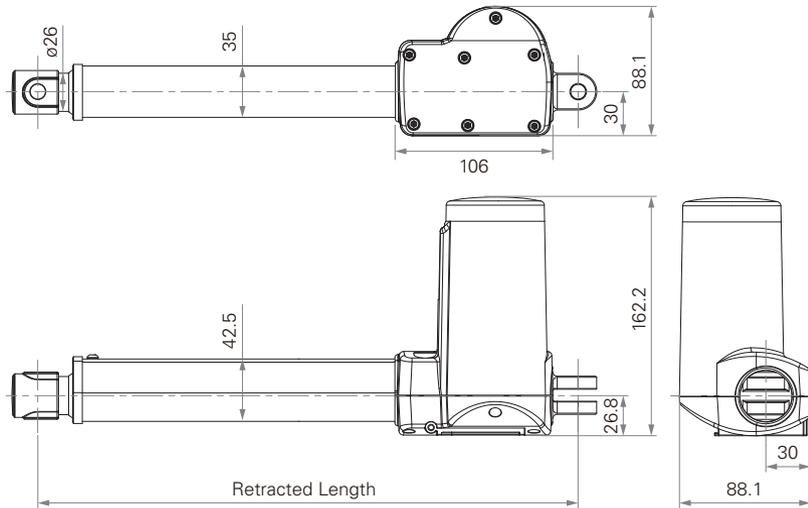
TA23

series



Standard Dimension

(mm)



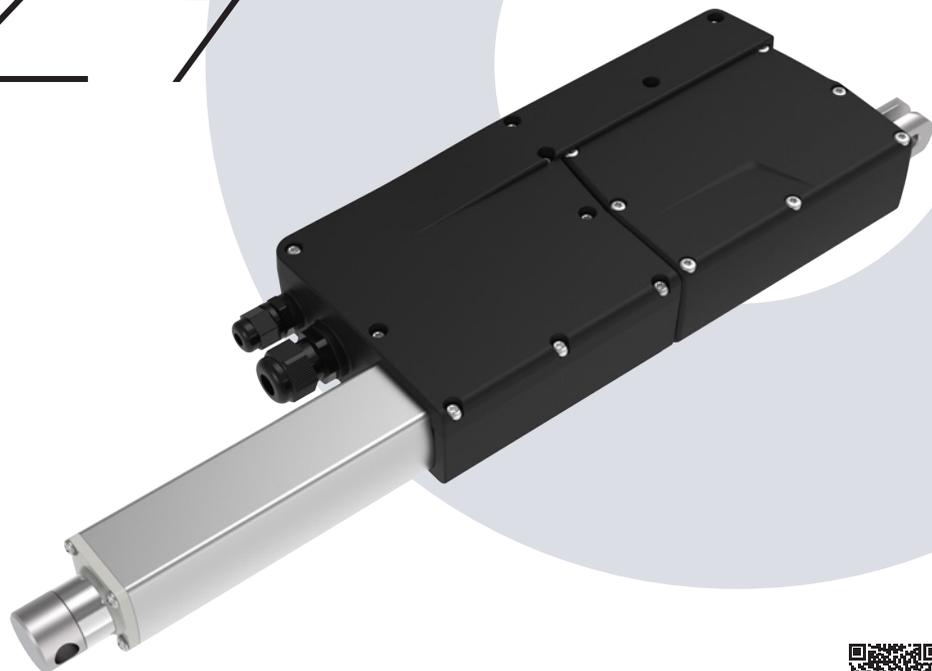
General Features

Max. load	10,000N (push); 4,000N (pull)	Stroke	25~1000mm
Max. speed at max. load	3.2mm/s	Output signals	Hall sensors
Max. speed at no load	39mm/s	Options	Manual release
Retracted length	\geq Stroke + 163mm	Voltage	12/24/36V DC; 24V DC (PTC)
IP rating	IP66W	Color	Black, grey
Certificate	EMC	Operational temperature range	+5°C~+45°C

TA29

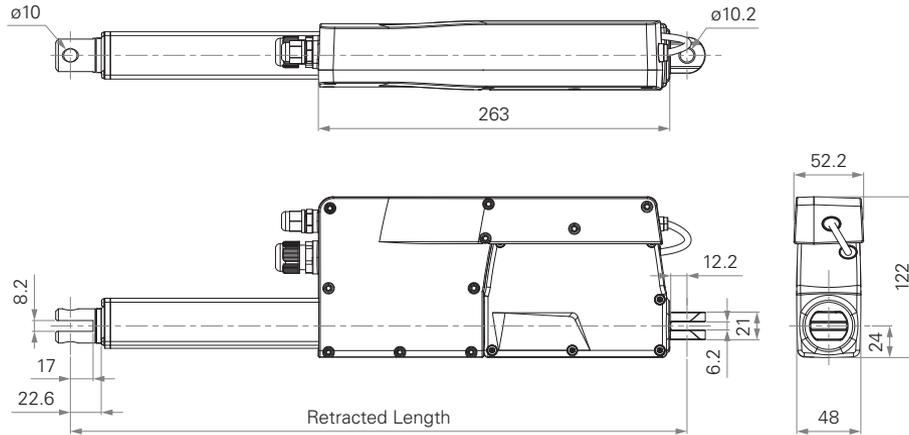
AC

series



Standard Dimension

(mm)

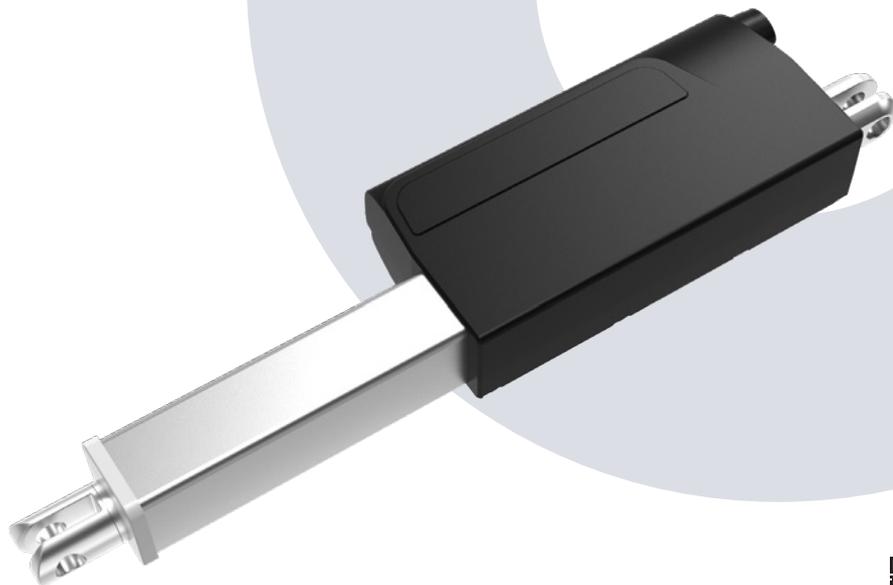


General Features

Max. load	4,000N (push/pull)	Stroke	25~1000mm
Max. speed at max. load	4.5mm/s	Output signals	POT
Max. speed at no load	9.5mm/s	Voltage	110~240V AC
Retracted length	> 302mm (depending on chosen options)	Color	Black, grey
IP rating	IP66W	Operational temperature range	+5°C~+45°C

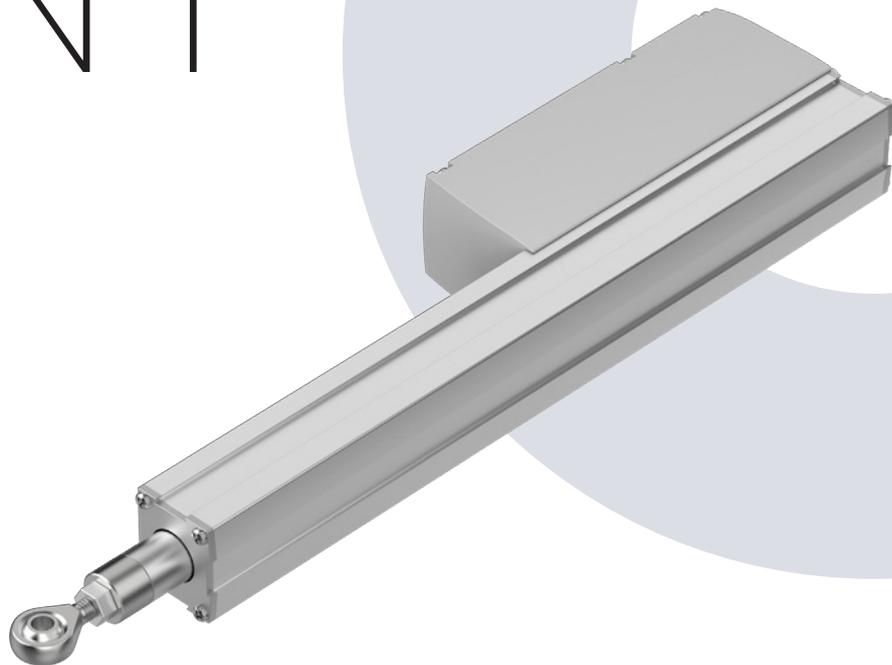
TA38M

series



VN1

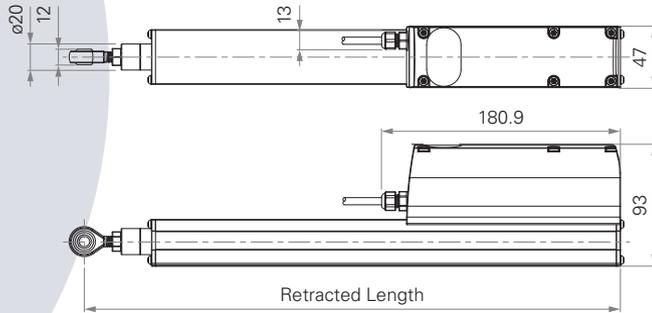
series



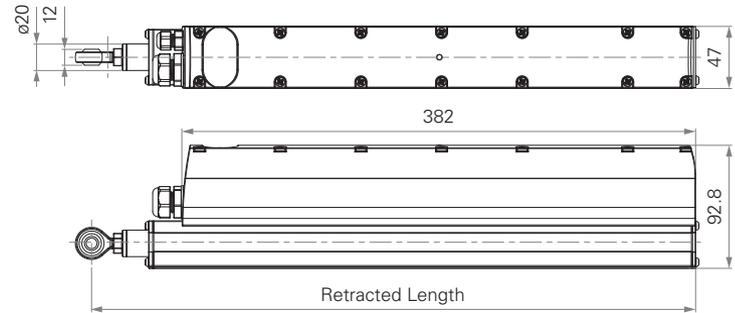
Standard Dimension

(mm)

With DC Voltage



With AC Voltage



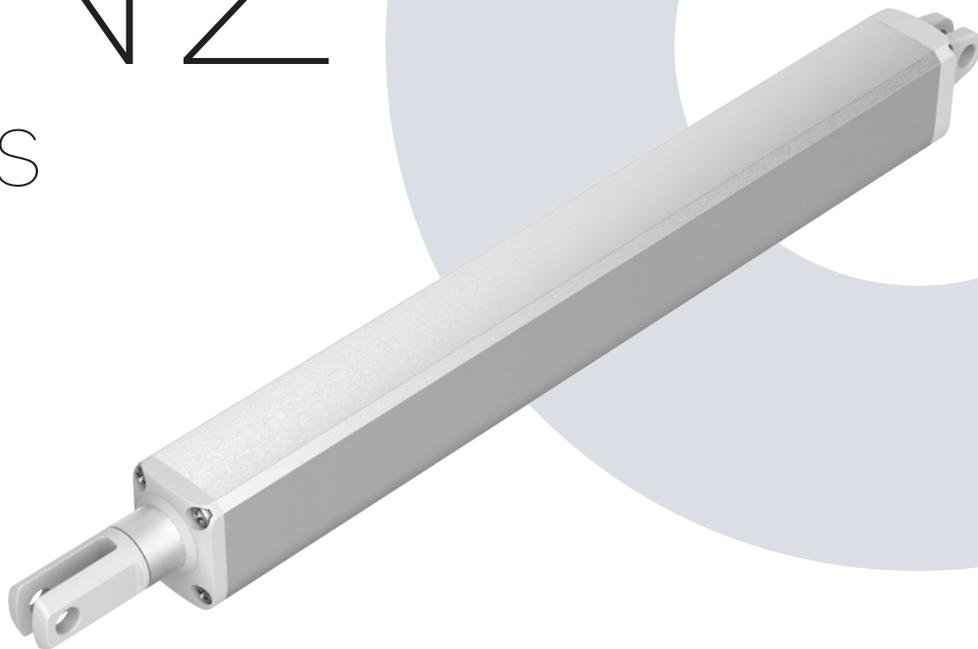
General Features

Max. load	3,500N (push); 2,000N (pull)
Max. speed at max. load	3.8mm/s
Max. speed at no load	13mm/s
Retracted length	≥ 205mm (DC version, w/o T-Smart; depending on chosen options); ≥ 432mm (AC version, w/o T-Smart; depending on chosen options)
IP rating	IP66
Stroke	20~500mm

Output signals	Hall sensors
Options	Safety nut, window seal mechanism, T-Smart
Voltage	12/24V DC; 12/24V DC, PTC; 100~240V AC (50Hz)
Color	Black, grey
Operational temperature range	-15°C~+50°C
Operational temperature range at full performance	+5°C~+45°C

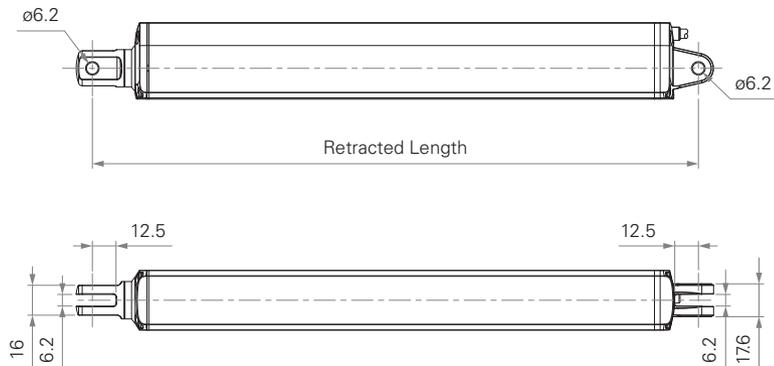
VN2

series



Standard Dimension

(mm)



General Features

Max. load	500N (push/pull)
Max. speed at max. load	8.35mm/s
Max. speed at no load	10.8mm/s
Retracted length	≥ Stroke + 189mm
IP rating	IP66
Stroke	20~500mm

Output signals	Hall sensors
Voltage	12/24V DC; 12/24V DC (thermal switch)
Operational temperature range	-25°C~+65°C
Operational temperature range at full performance	+5°C~+45°C

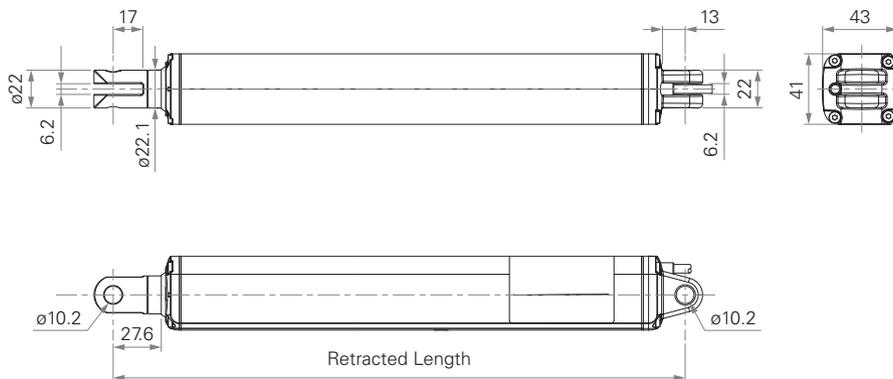
VN3

series



Standard Dimension

(mm)



General Features

Max. load	3,000N (push/pull)
Max. speed at max. load	3.5mm/s
Max. speed at no load	6.8mm/s
Retracted length	\geq Stroke + 248mm
IP rating	IP66
Stroke	20~500mm

Output signals	Hall sensors
Voltage	12/24V DC; 12/24V DC (thermal switch)
Operational temperature range	-20°C~+65°C
Operational temperature range at full performance	+5°C~+45°C

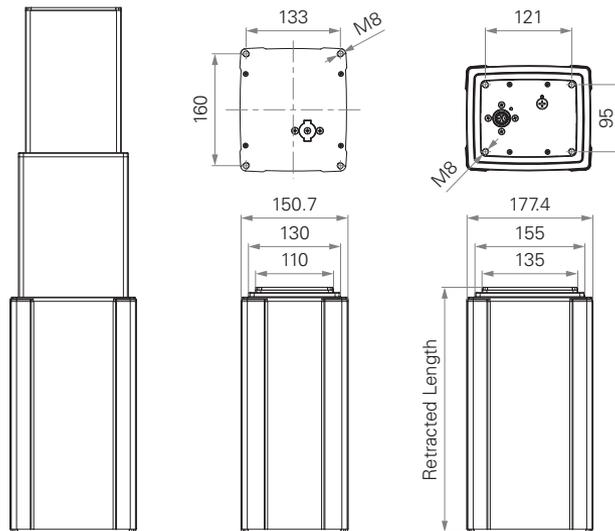
TL3

series



Standard Dimension

(mm)



General Features

Max. load	4,000N (push)	Stages	3-stage
Self-locking force	4,000N	Stroke	250~1200mm
Max. dynamic bending moment	1,000Nm	Certificate	EMC
Max. static bending moment	2,000Nm	Output signals	POT, Hall sensors
Max. speed at max. load	13.7mm/s	Options	Direct cut system
Max. speed at no load	39mm/s	Voltage	12V DC; 24V DC (thermal control)
Retracted length	$\geq \text{Stroke}/2 + 150\text{mm}$	Color	Black, matte silver
IP rating	IPX6	Operational temperature range	+5°C~+45°C
Dimension of outer tube	177.4*150.7mm rectangular		

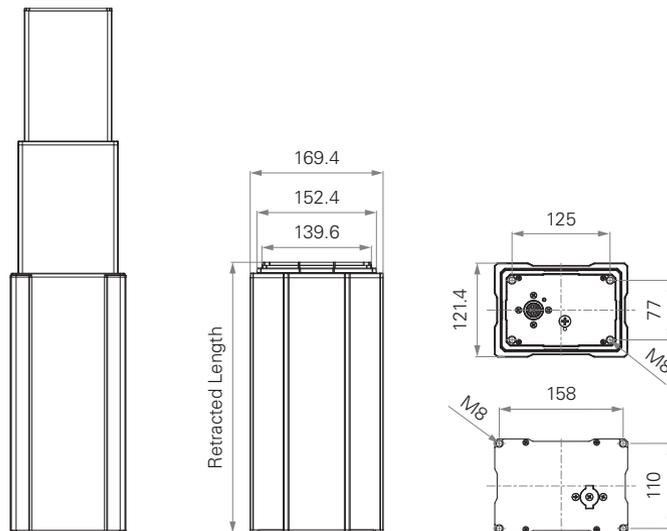
TL17

series



Standard Dimension

(mm)



General Features

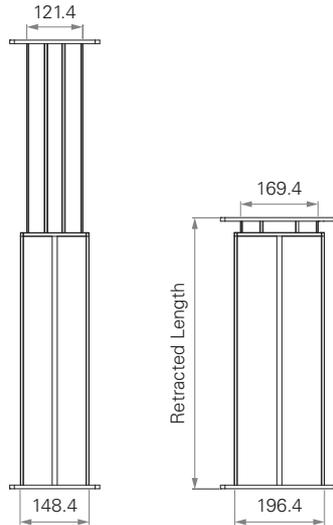
Max. load	2,000N (push)	Dimension of outer tube	169.4*121.4mm rectangular
Max. dynamic bending moment	250Nm	Stages	3-stage
Max. static bending moment	500Nm	Stroke	250~1200mm
Max. speed at max. load	11.5mm/s	Output signals	Hall sensors
Max. speed at no load	41mm/s	Voltage	12V DC; 24V DC (PTC)
Retracted length	$\geq \text{Stroke}/2 + 150\text{mm}$	Color	Silver, black
IP rating	IPX6	Operational temperature range	+5°C~+45°C

TL18

series



Standard Dimension (mm)



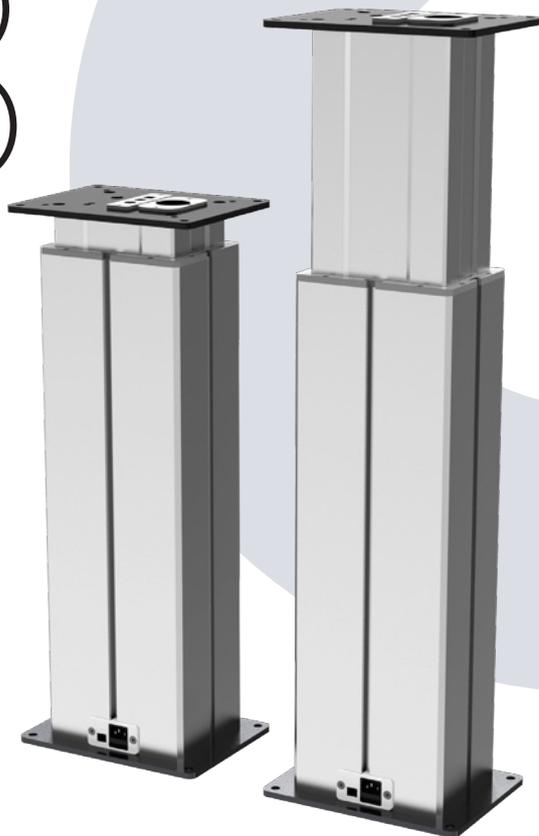
General Features

Max. load	4,500N (push)	Stages	2-stage
Self-locking force	4,500N	Stroke	100~1000mm
Max. dynamic bending moment	250Nm	Certificate	UL73, EMC
Max. static bending moment	500Nm	Output signals	Hall sensors
Max. speed at max. load	6.6mm/s	Options	Cable exit from top or bottom side, direct cut system
Max. speed at no load	45mm/s	Voltage	12/24V DC
Retracted length	≥ Stroke + 147mm	Operational temperature range	+5°C~+45°C
Dimension of outer tube	196.4*148.4mm rectangular		

TL18

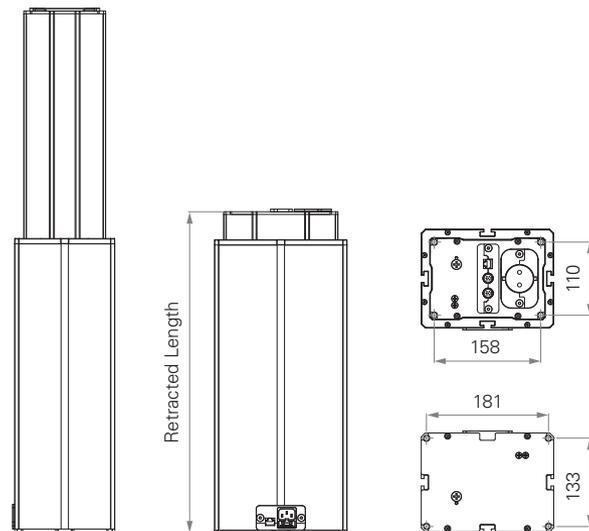
AC

series



Standard Dimension

(mm)

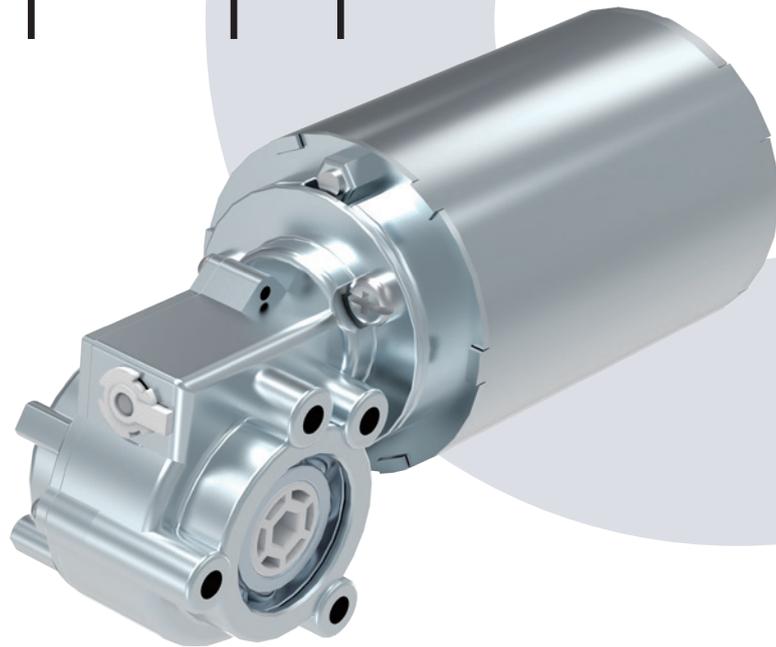


General Features

Max. load	4,500N (push)	Dimension of outer tube	196.4*148.4mm rectangular
Self-locking force	4,500N	Stages	2-stage
Max. dynamic bending moment	250Nm	Stroke	20~700mm
Max. static bending moment	500Nm	Options	AC cable exit from top end, top side; Ethernet socket
Max. speed at max. load	6.6mm/s	Operational temperature range	+5°C~+45°C
Max. speed at no load	45mm/s		
Retracted length	≥ 383mm		

TGM1

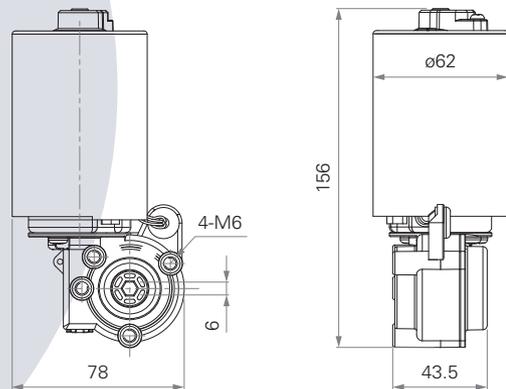
series



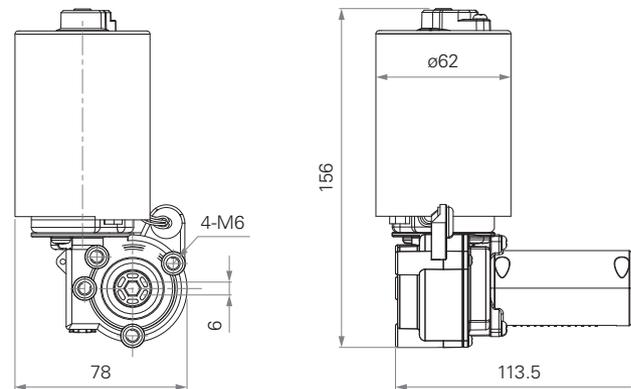
Standard Dimension

(mm)

Without TES2



With TES2



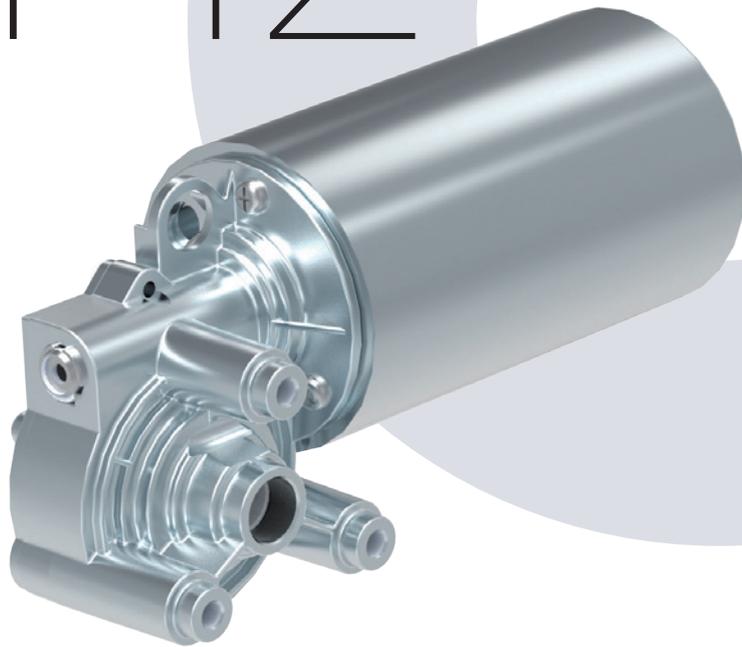
General Features

Max. rated torque	7.4Nm
Max. speed at max. load	72RPM ($\pm 5\%$)
Max. speed at no load	262.5RPM ($\pm 5\%$)
Output signals	Hall sensors

Voltage	12, 24V DC or 24V DC (PTC)
Operational temperature range at full performance	+5°C~+45°C
Hexagon hole for the shaft by 6 or 9.1mm diameter	
Low noise	

TGM2

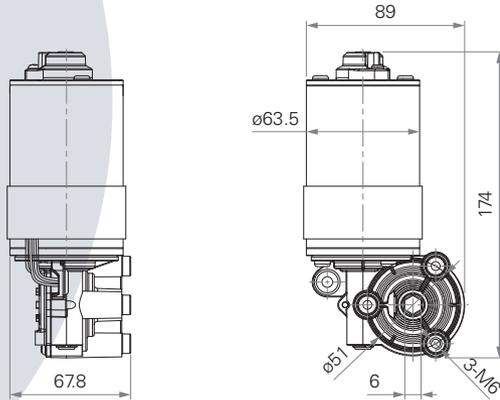
series



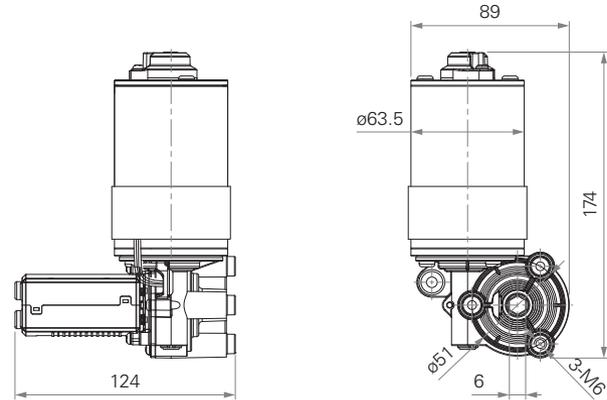
Standard Dimension

(mm)

Without TES2



With TES2



General Features

Max. rated torque	18.3Nm
Max. speed at max. load	60RPM ($\pm 5\%$)
Max. speed at no load	108RPM ($\pm 5\%$)
Output signals	Hall sensors

Options

Voltage

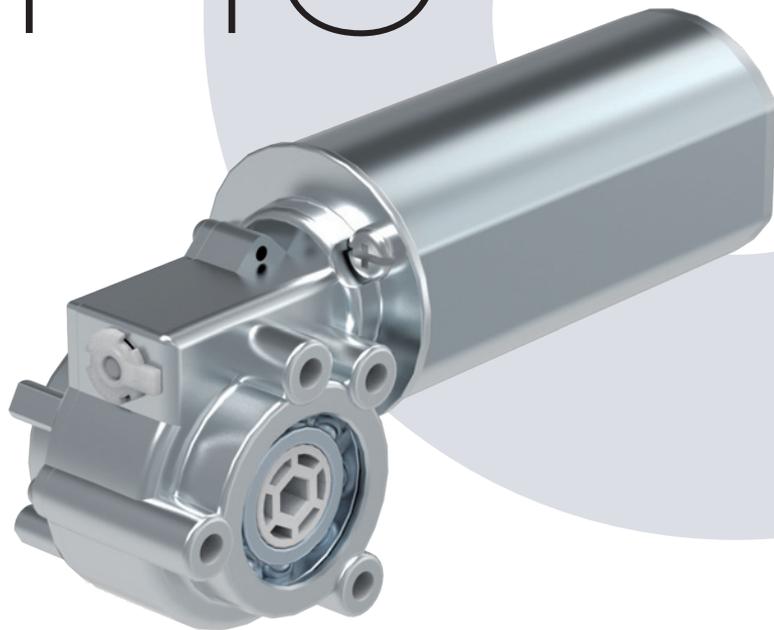
Low noise

Motor brake

12V DC or 24V DC
(thermal protector)

TGM3

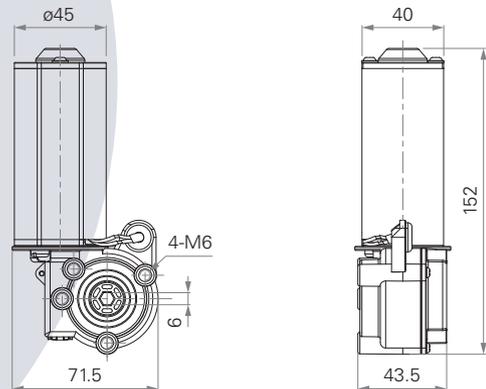
series



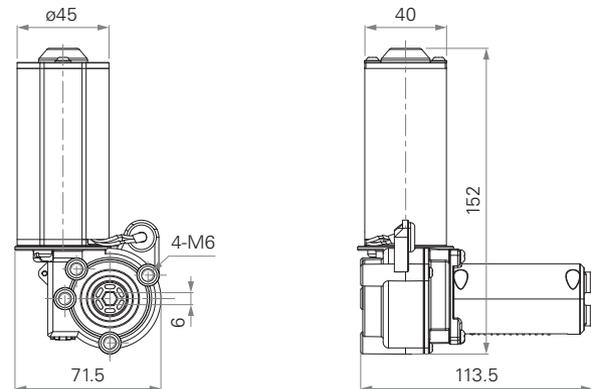
Standard Dimension

(mm)

Without TES2



With TES2



General Features

Max. rated torque	4.6Nm
Max. speed at max. load	61RPM ($\pm 5\%$)
Max. speed at no load	259RPM ($\pm 5\%$)
Output signals	Hall sensors

Voltage	24V DC
Operational temperature range at full performance	+5°C~+45°C

Hexagon hole for the shaft by 6mm diameter

Low noise

TGM4

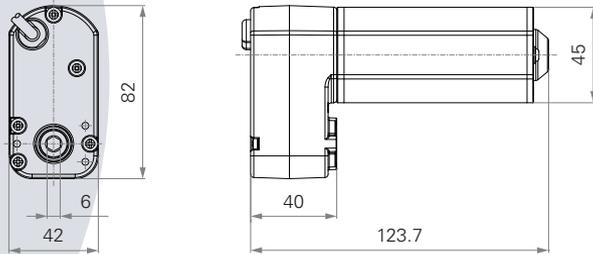
series



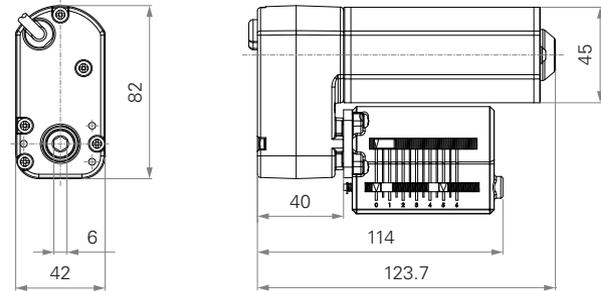
Standard Dimension

(mm)

Without TES2



With TES2



General Features

Max. rated torque	6Nm
Max. speed at max. load	98RPM ($\pm 5\%$)
Max. speed at no load	219RPM ($\pm 5\%$)
Output signals	Hall sensors
Options	Motor brake

Voltage	24V DC
Operational temperature range at full performance	+5°C~+45°C

Hexagon hole for the shaft by 9mm diameter

Low noise

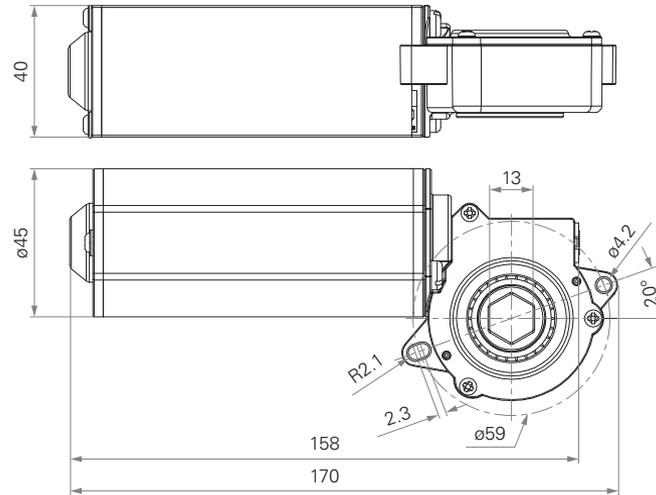
TGM7

series



Standard Dimension

(mm)



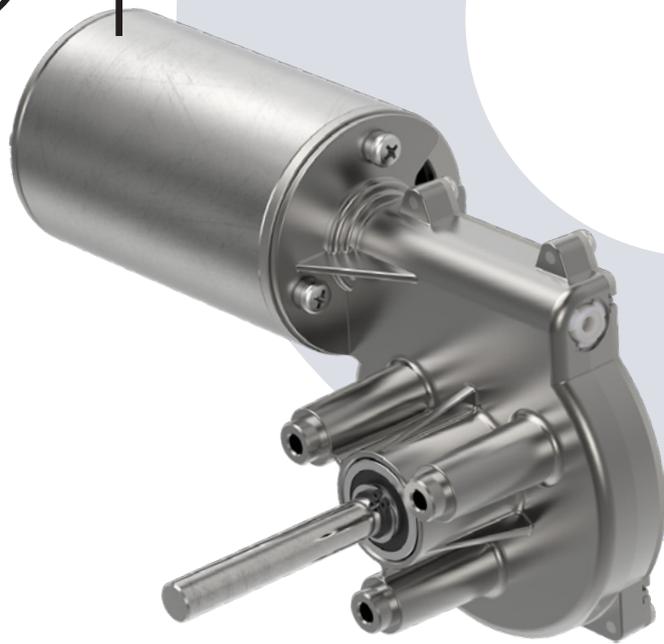
General Features

Max. rated torque	7.2Nm
Max. speed at max. load	78RPM (±5%)
Max. speed at no load	355RPM (±5%)
Output signals	Hall sensors

Voltage	24V DC
Operational temperature range at full performance	+5°C~+45°C
Low noise	

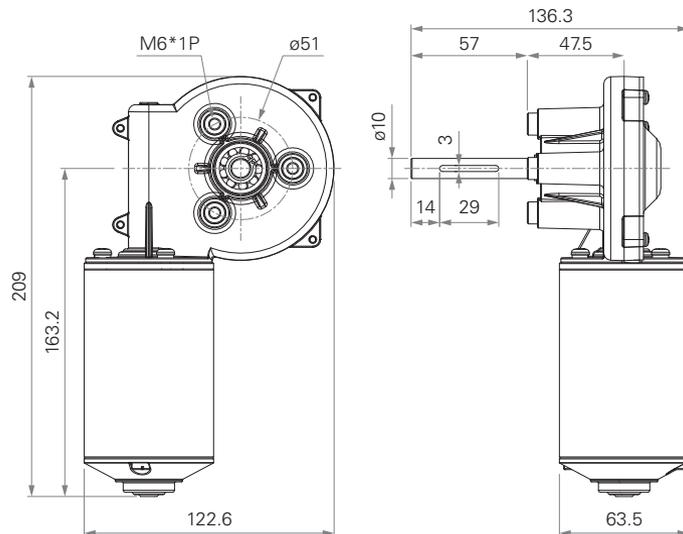
TIG1

series



Standard Dimension

(mm)



General Features

Max. rated torque	60Nm
Max. speed at max. load	24RPM
Max. speed at no load	40RPM

Output signals	Hall sensor(s)
Voltage	12/24V DC (thermal cutoff)
Operational temperature range at full performance	+5°C~+45°C

Control Boxes



TID1 Series

- Number of motors: 1~2
- Number of controls: 1
- Max. output: 12V DC, 20A;
24V DC, 10A
- IP rating: IP69K





Power Supplies



TIP1 Series

- Transformer type: SMPS
- Input voltage: 90~305V AC
- Max. output: 24V DC, 5A
- IP rating: IP67



TIP2 Series

- Transformer type: SMPS
- Input voltage: 90~305V AC
- Max. output: 24V DC, 13.34A
- IP rating: IP67



TIP3 Series

- Transformer type: SMPS
- Input voltage: 90~305V AC
- Max. output: 24V DC, 20A
- IP rating: IP67



TIP4 Series

- Transformer type: SMPS
- Input voltage: 90~305V AC
- Max. output: 24V DC, 25A
- IP rating: IP67



NEW

TIP5 Series

- Transformer type: Linear
- Input voltage: 115 or 230V AC
- Max. output: 24V DC, 15A
- IP rating: IP69K



Accessories



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TiMOTION uses FSC certificated paper in order to help care for our forests, as well as the people and wildlife who call them home.



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