TA25

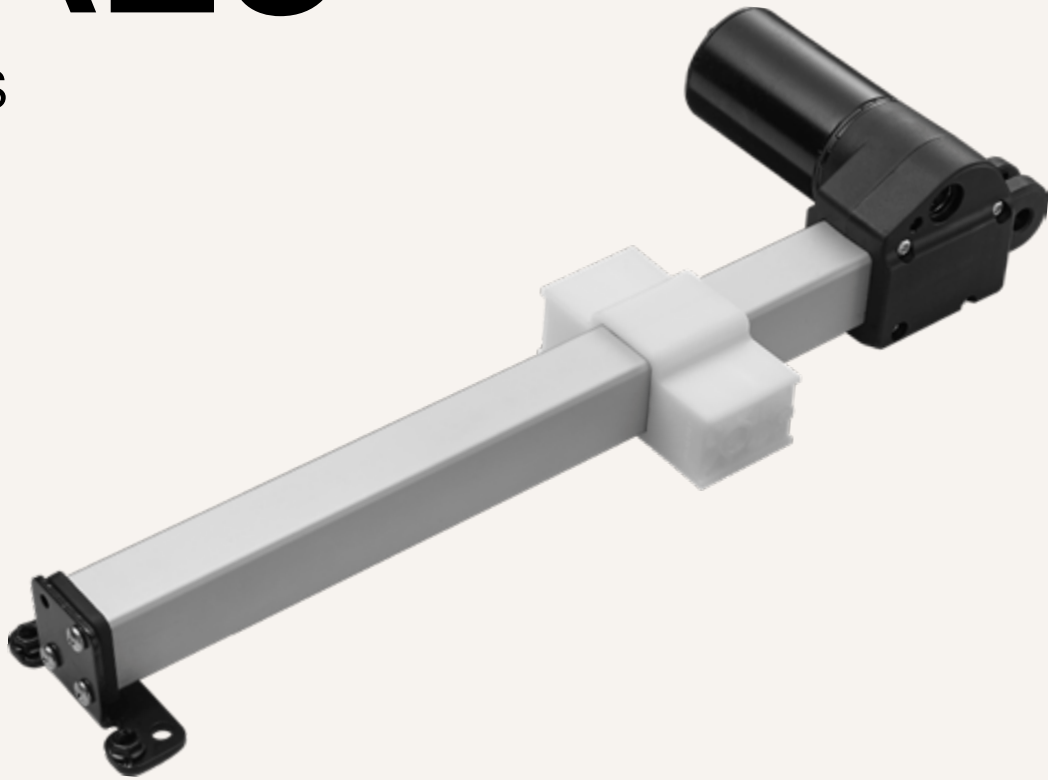## series

Product Segments

- **Comfort Motion**

TiMOTION's TA25 series electric linear actuator uses a linear slide to move a load, instead of an extension tube. This linear slide mechanism allows for a significantly shorter retracted length and makes the TA25 a great solution for various furniture applications. The TA25 is designed to function as a direct cut system, eliminating the need for a control box, offering a simple and economical solution. Available options are Hall sensors and a special L-shaped mounting bracket.

General Features

Voltage of motor	12V DC or 24V DC
Maximum load	1,000N in push / pull
Maximum speed at full load	29mm/s
	(with 1,000N in a push / pull condition)
Minimum installation dimension	≥ 99mm
Certificate	UL962
Operational temperature range	+5°C~+45°C
Options	Hall sensor(s)

Drawing

Standard Dimensions
(mm)
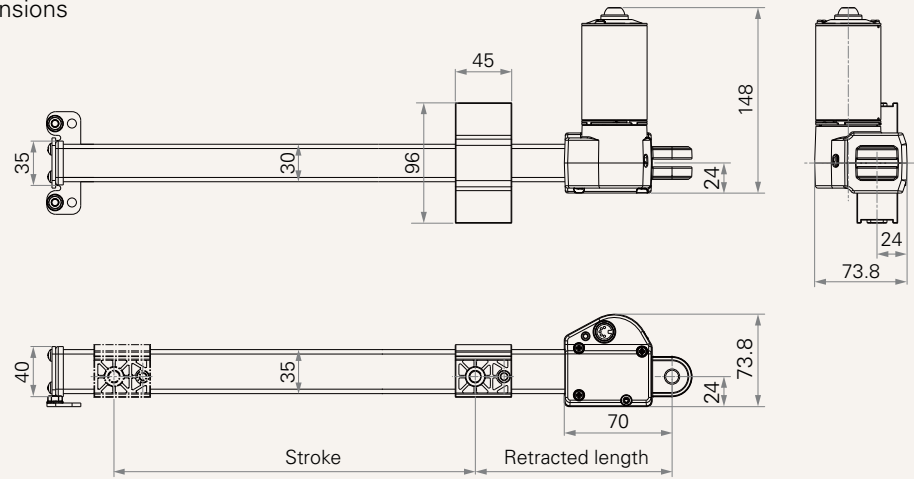
Load and Speed

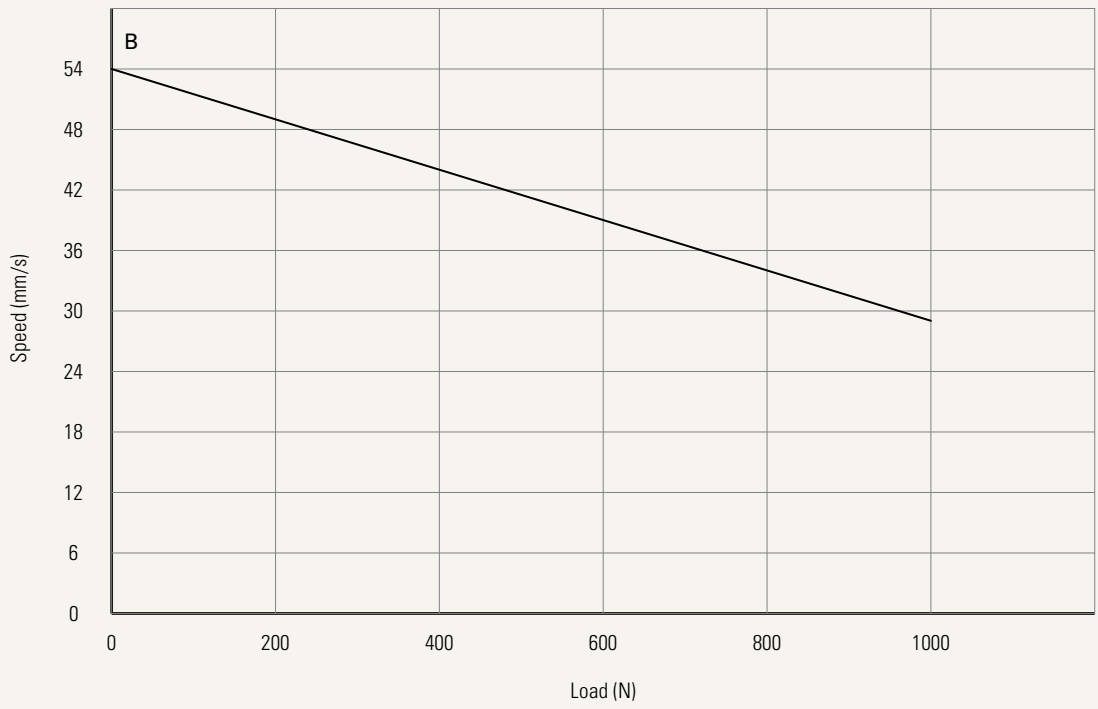| CODE	Load (N)		Self Locking Force (N)	Typical Current (A)		Typical Speed (mm/s)	
	Push	Pull		No Load 32V DC	With Load 24V DC	No Load 32V DC	With Load 24V DC
Motor Speed (3800RPM, duty cycle 10%)							
B	1000	1000	100	1.3	4.5	54.0	29.0

Note

1 The current & speed in table are tested with 24V DC motor. With a 12V DC motor, the current is approximately twice the current measured in 24V DC; speed will be similar for both voltages.

2 This self-locking force level is reached only when a short circuit is applied on the terminals of the motor. All the TiMOTION control boxes have this feature built-in.
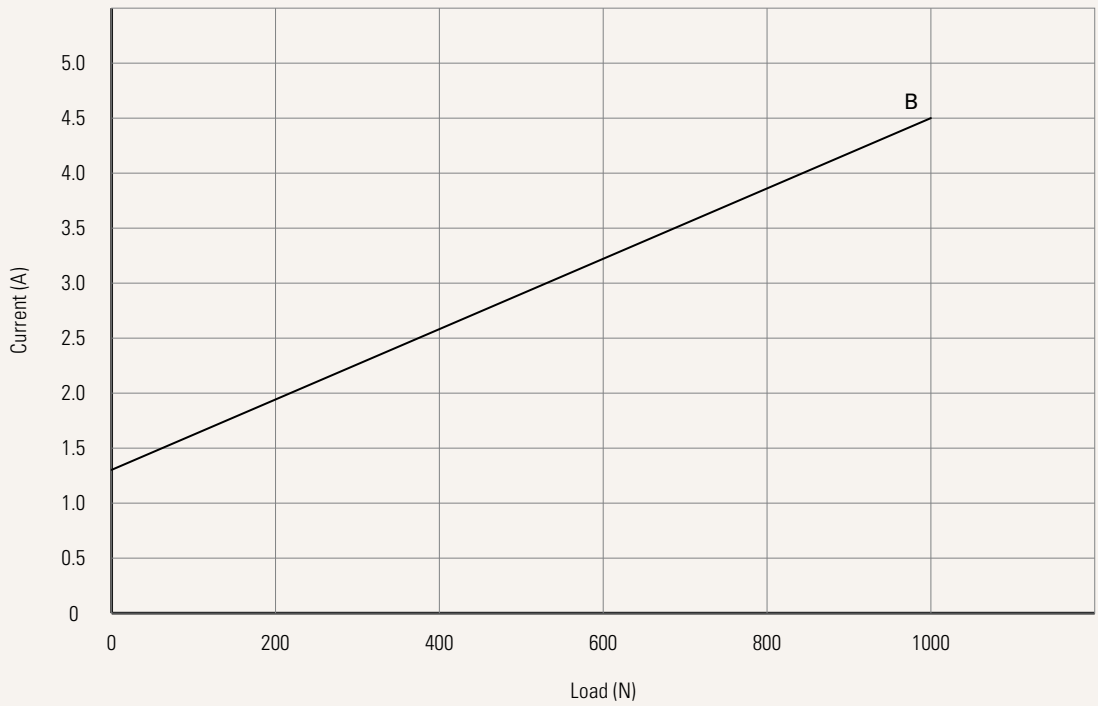
Performance Data (24V DC Motor)

Motor Speed (3800RPM, duty cycle 10%)
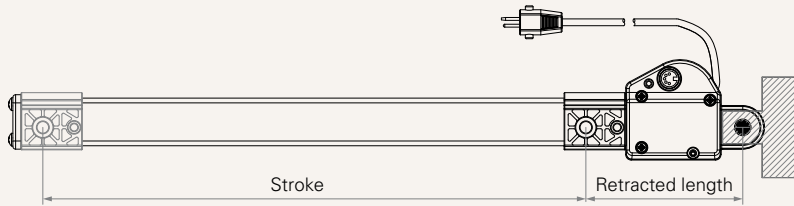
Speed vs. Load

Current vs. Load

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TA25 Ordering Key

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TA25

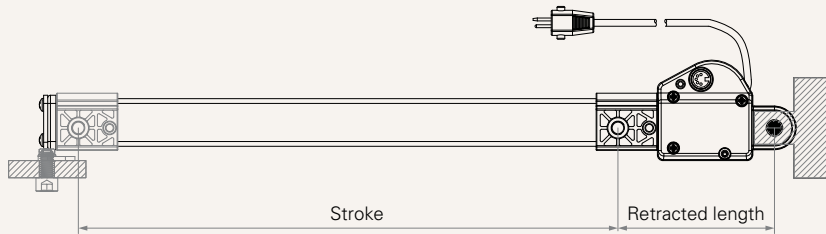|				
Voltage	1 = 12V		2 = 24V	
Load and Speed	See page 2			
Stroke (mm)				
Retracted Length (mm)	122 = Bracket on the front & rear end #0 122 = Bracket on the front & rear end #1		099 = Bracket on the front & rear end #2	
Bracket See page 5	0 = Without	1 = Style A: Iron bracket	2 = Style B: Plastic bracket	
IP Rating	1 = Without			
Functions for Limit Switches See page 6	1 = Two switches at full retracted / extended positions to cut current 2 = Two switches at full retracted / extended positions to cut current + third one in between to send signal 3 = Two switches at full retracted / extended positions to send signal 4 = Two switches at full retracted / extended positions to send signal + third one in between to send signal			
Output Signals	0 = Without	1 = One Hall sensor	2 = Two Hall sensors	
Connector See page 6	1 = DIN 6P, 90° plug 2 = Tinned leads 3 = Small 01P, plug		K = 1 motor direct cut system L = 1+1, 2 motors direct cut system	
Cable Length (mm)	0 = Straight, 100 1 = Straight, 500 2 = Straight, 750 3 = Straight, 1000	4 = Straight, 1250 5 = Straight, 1500 6 = Straight, 2000 7 = Curly, 200	8 = Curly, 400 K = 1 motor direct cut system See page 6	L = 1+1, 2 motors direct cut system See page 6

TA25 Ordering Key Appendix

Minimum retracted length is according to bracket on the front & rear end (mm)

Bracket on the front & rear end	Retracted length
0	122
1	122
2	99

0 = Without

Stroke   Retracted length

1 = Style A: Iron bracket

Stroke   Retracted length

2 = Style B: Plastic bracket

Stroke   Retracted length

Rear Attachment (mm)

0 = Bracket on the front & rear end   1 = Bracket on the front & rear end

16

ø10.2

26

6.2

16

ø10.2

26

6.2

TA25 Ordering Key Appendix
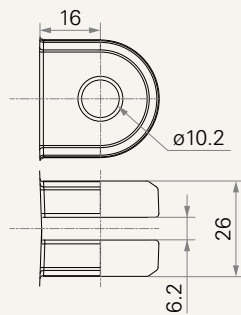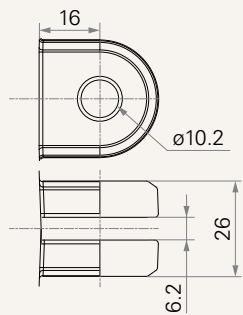
Functions for Limit Switches

Wire Definitions

| CODE	Pin					
	🟢 1 (Green)	🔴 2 (Red)	⚪ 3 (White)	⚫ 4 (Black)	🟡 5 (Yellow)	🔵 6 (Blue)
1	extend (VDC+)	N/A	N/A	N/A	retract (VDC+)	N/A
2	extend (VDC+)	N/A	middle switch pin B	middle switch pin A	retract (VDC+)	N/A
3	extend (VDC+)	common	upper limit switch	N/A	retract (VDC+)	lower limit switch
4	extend (VDC+)	common	upper limit switch	medium limit switch	retract (VDC+)	lower limit switch

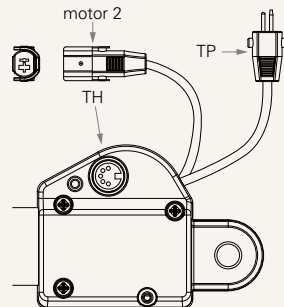## Connector

1 = DIN 6P, 90° plug
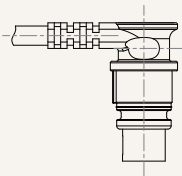
2 = Tinned leads
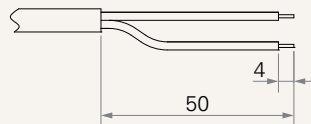
3 = Small 01P, plug
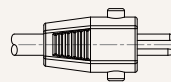
K = 1 motor direct cut system
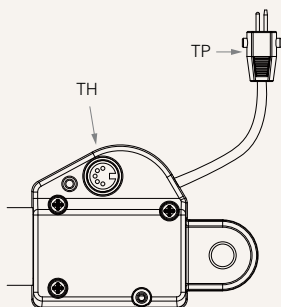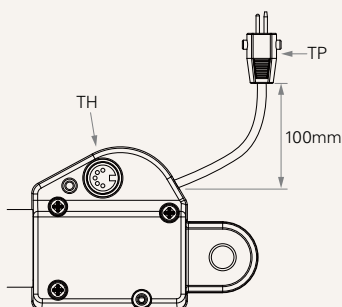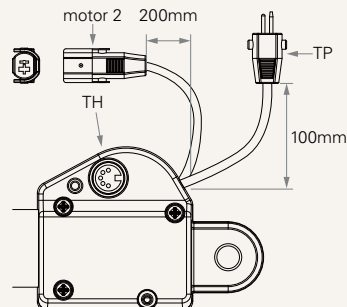
L = 1+1, 2 motors direct cut system

Cable length (mm)

K = 1 motor direct cut system

L = 1+1, 2 motors direct cut system

Terms of Use

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