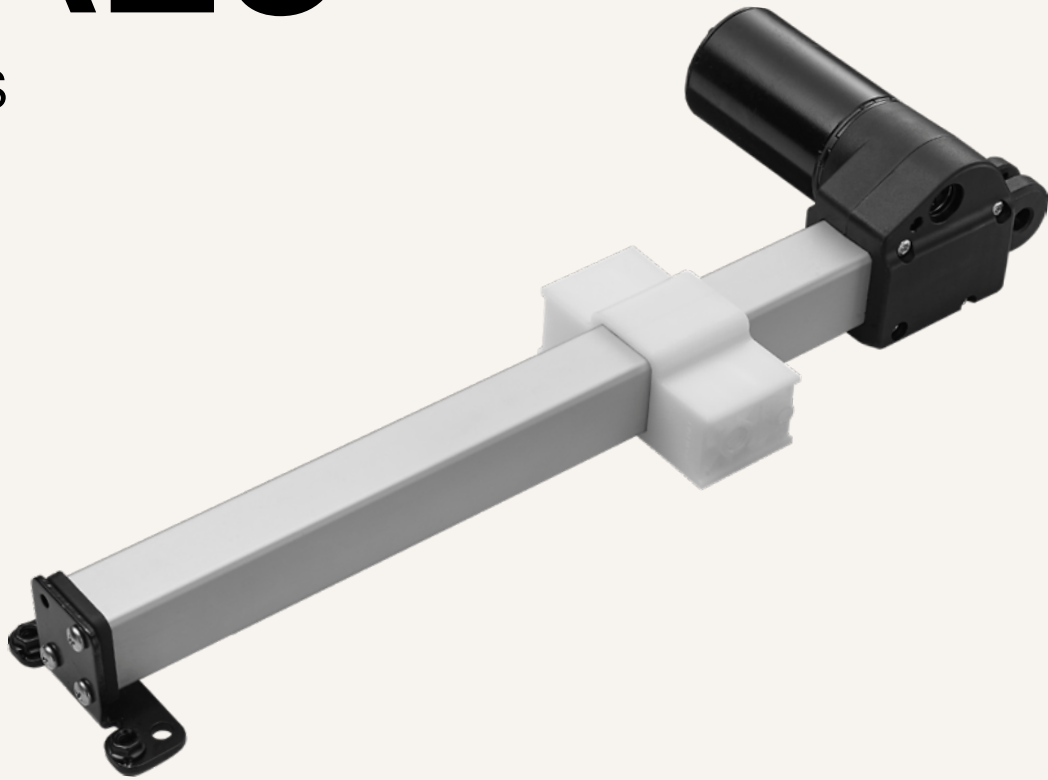


# TA25

series



## Product Segments

### • Comfort Motion

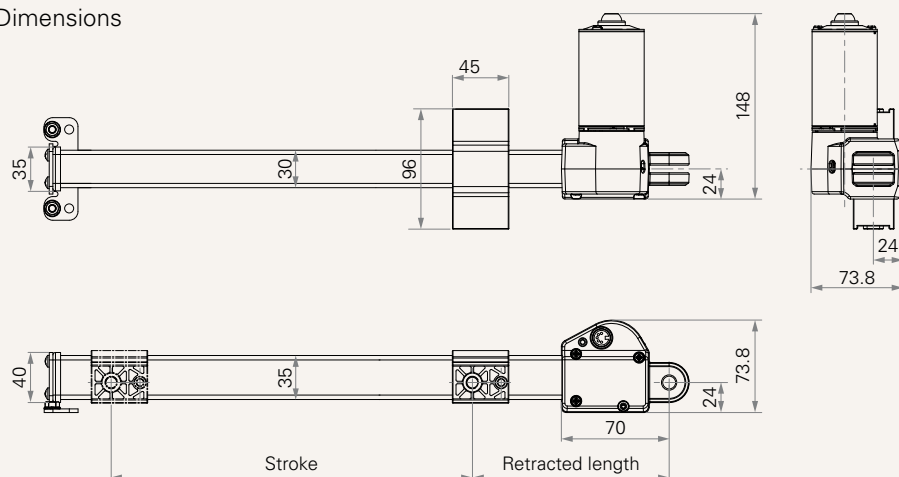
TiMOTION's TA25 series electric linear actuator uses a linear slide to move a load, instead of an extension tube. This linear slide mechanism allows for a significantly shorter retracted length and makes the TA25 a great solution for various furniture applications. The TA25 is designed to function as 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

Max. load	1,000N (push / pull)
Max. speed at max. load	29mm/s
Max. speed at no load	54mm/s
Retracted length	≥ 99mm
Certificate	UL962
Output signals	Hall sensor(s)
Voltage	12 / 24V DC
Operational temperature range	+5°C~+45°C

**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
<b>Motor Speed (3800RPM, duty cycle 10%)</b>							
<b>B</b>	1000	1000	100	1.3	4.5	54.0	29.0

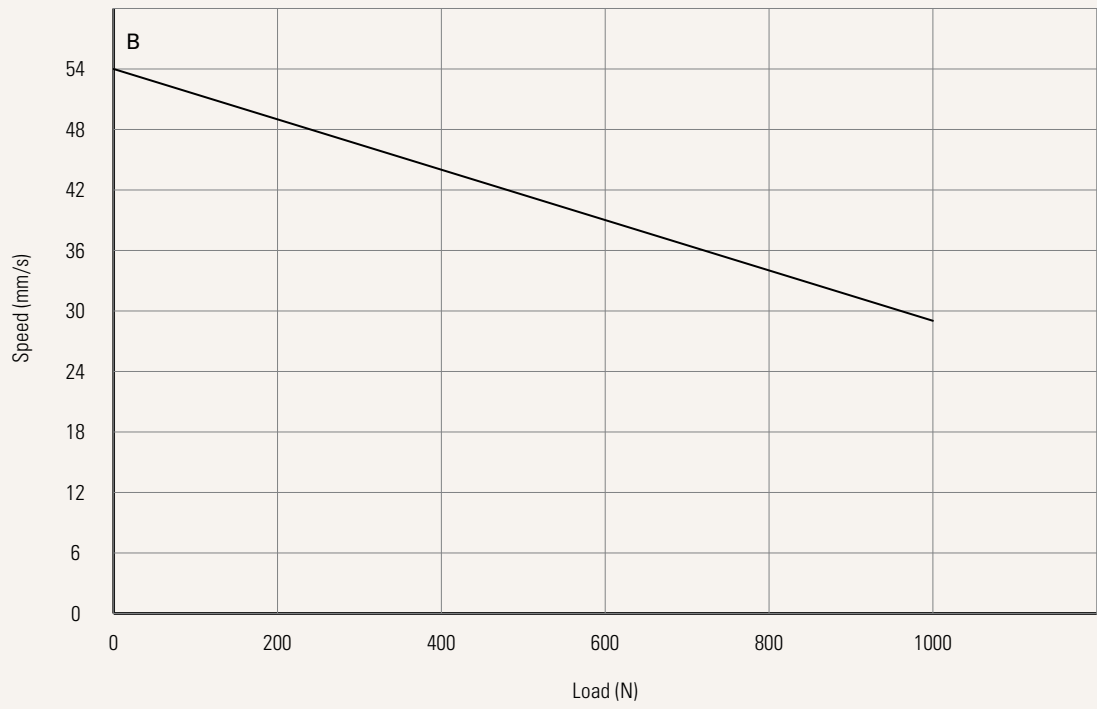
**Note**

- 1 Please refer to the approved drawing for the final authentic value.
- 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.
- 3 Operational temperature range: -25°C~+65°C
- 4 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. With a 36V DC motor, the current is approximately two-thirds the current measured in 24V DC. With a 48V DC motor, the current is approximately half the current measured in 24V DC. Speed will be similar for all the voltages.
- 5 The current & speed in table are tested when the actuator is extending under push load.
- 6 The current & speed in table and diagram are tested with TiMOTION control boxes, and there will be around 10% tolerance depending on different models of the control box. (Under no load condition, the voltage is around 32V DC. At rated load, the voltage output will be around 24V DC)
- 7 The current & speed in table and diagram are tested with a stable 24V DC power supply.

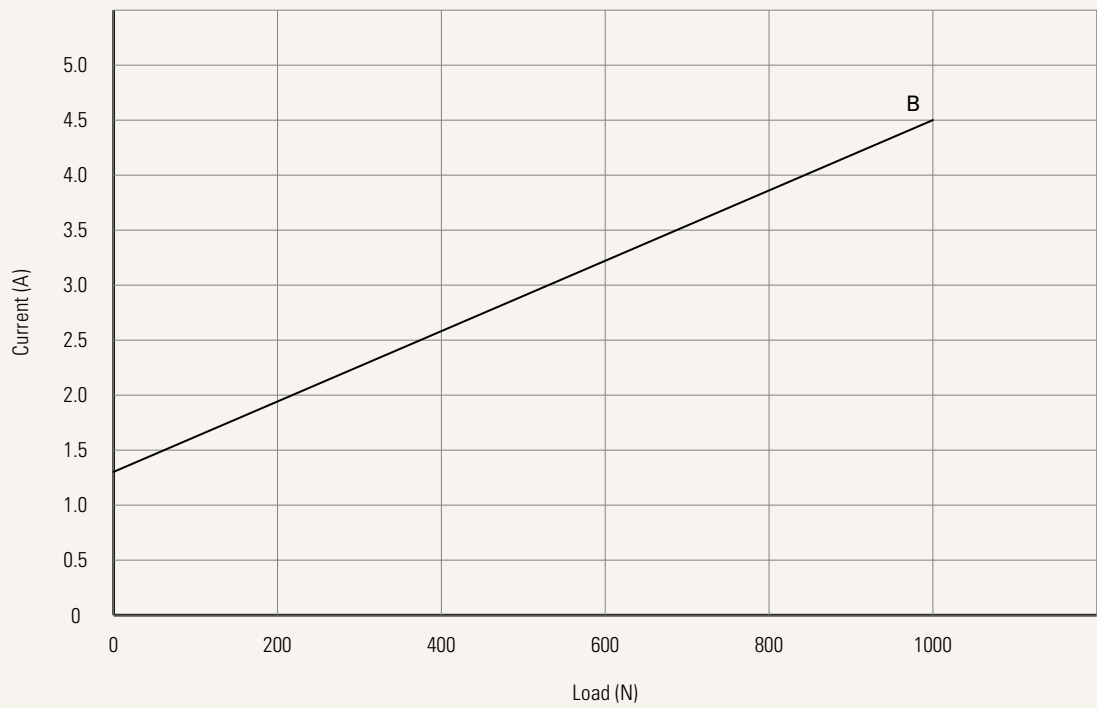
### Performance Data (24V DC Motor)

Motor Speed (3800RPM, duty cycle 10%)

Speed vs. Load



Current vs. Load

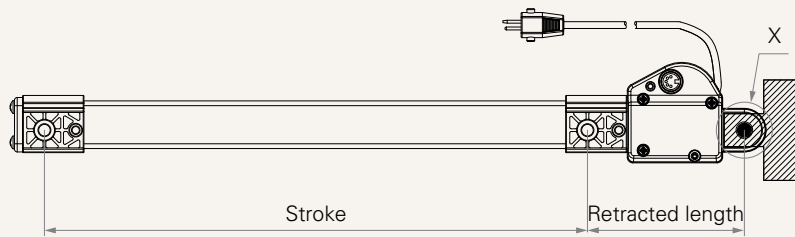


<b>Voltage</b>	1 = 12V	2 = 24V		
<b>Load and Speed</b>	<a href="#">See page 2</a>			
<b>Stroke (mm)</b>	<a href="#">See page 5</a>			
<b>Retracted Length (mm)</b>	122 = Bracket on the front & rear end #0 122 = Bracket on the front & rear end #1		099 = Bracket on the front & rear end #2	
<b>Bracket</b> <a href="#">See page 5</a>	0 = Without	1 = Style A: Iron bracket	2 = Style B: Plastic bracket	
<b>IP Rating</b>	1 = Without			
<b>Functions for Limit Switches</b> <a href="#">See page 6</a>	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			
<b>Output Signals</b>	0 = Without	2 = Hall sensors * 2		
<b>Connector</b> <a href="#">See page 6</a>	1 = DIN 6P, 90°plug 2 = Tinned leads 3 = Small 01P, plug P = Molex 8P, 90°plug, without anti-clip		K = 1 motor direct cut system J = 1 motor direct cut system, with anti-pull cover L = 1+1, 2 motors direct cut system S = 1+1, 2 motors direct cut system, with anti-pull cover	
<b>Cable Length (mm)</b>	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. <a href="#">See page 7</a> L = 1+1, 2 motors direct cut system. <a href="#">See page 7</a>

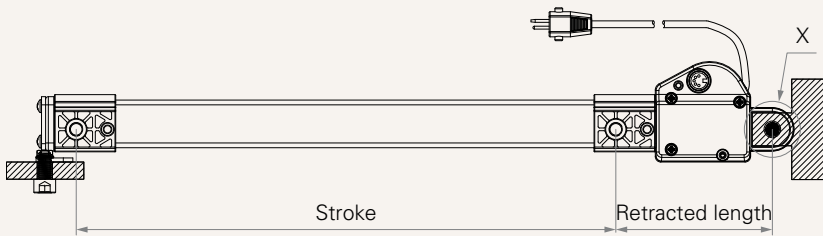
## Minimum Retracted Length Is According To Bracket On The Front & Rear End (Mm)

Bracket On The Front & Rear End	Minimum Retracted Length (mm)
0	122
1	122
2	99

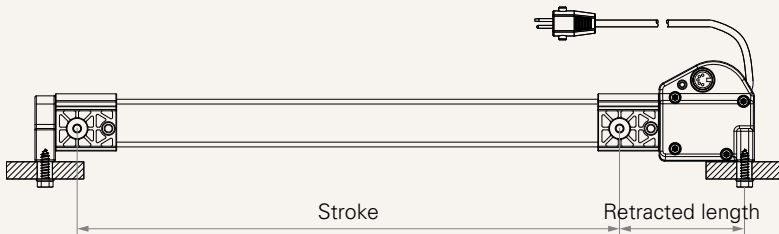
0 = Without



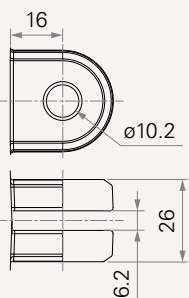
1 = Style A: Iron bracket



2 = Style B: Plastic bracket



X = Rear attachment dimensions (mm)



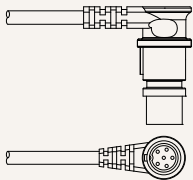
## Functions for Limit Switches

### Wire Definitions

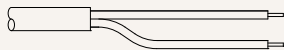
CODE	Pin					
	● 1 (Green)	● 2 (Red)	○ 3 (White)	● 4 (Black)	● 5 (Yellow)	● 6 (Blue)
1	extend (VDC+)	N/A	N/A	N/A	retract (VDC+)	N/A
2	extend (VDC+)	N/A	middle switch pin B	middle switch pin A	retract (VDC+)	N/A
3	extend (VDC+)	common	upper limit switch	N/A	retract (VDC+)	lower limit switch
4	extend (VDC+)	common	upper limit switch	medium limit switch	retract (VDC+)	lower limit switch

### Connector

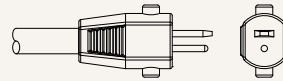
1 = DIN 6P, 90° plug



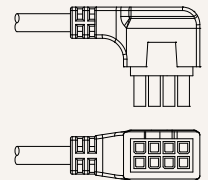
2 = Tinned leads



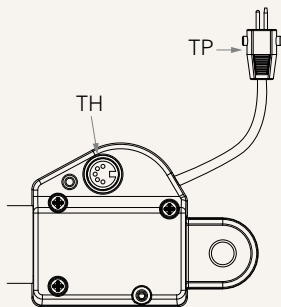
3 = Small 01P, plug



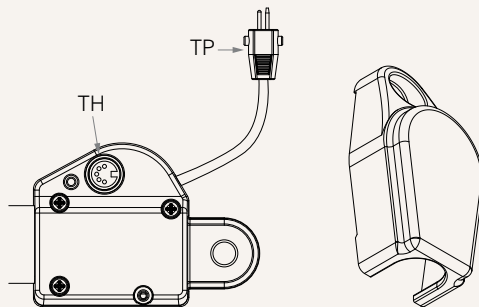
P = Molex 8P, 90° plug, without anti-clip



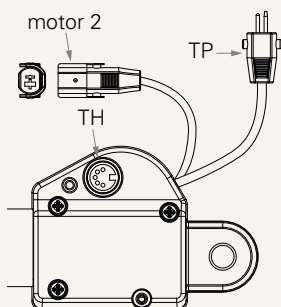
K = 1 motor direct cut system



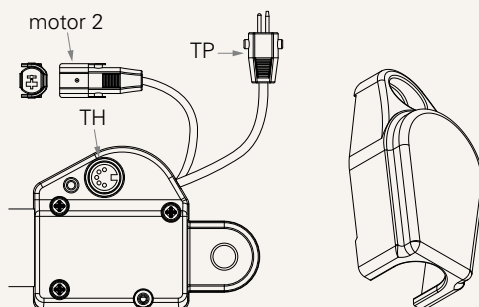
J = 1 motor direct cut system, with anti-pull cover



L = 1+1, 2 motors direct cut system



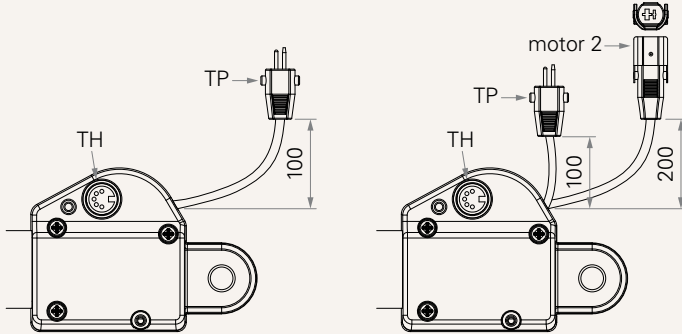
S = 1+1, 2 motors direct cut system, with anti-pull cover



## Cable Length (mm)

K = 1 motor direct cut system

L = 1+1, 2 motors direct cut system



## Terms of Use

The user is responsible for determining the suitability of TiMOTION products for a specific application. TiMOTION products are subject to change without prior notice.