

# TA32

series



## Product Segments

- **Comfort Motion**

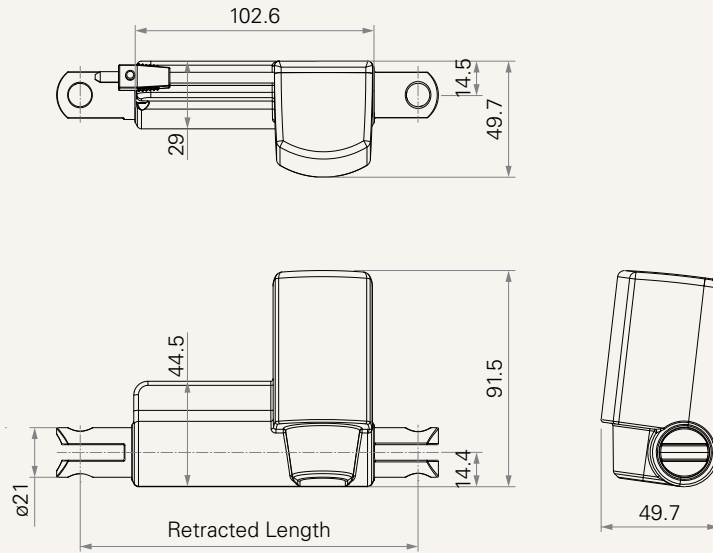
TA32 is a head tilt motor for recliner applications. It can help with adjusting the top head position which will make the end users with more pleasant using experience.

### General Features

Voltage of motor	24V DC, 24V DC (PTC)
Maximum load in push	500N
Maximum speed at full load	8.8mm/s (with 300N in a push condition)
Stroke	050 / 044 / 040 / 034 / 031 / 025 / 015mm
Minimum installation dimension	143mm
Color	Black or grey
Certificate	UL962

**Drawing**

Standard Dimensions  
(mm)



**Load and Speed**

CODE	Load (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 (5000RPM, duty cycle 10%)</b>						
<b>A</b>	500	300	0.1	0.8	11.0	4.8
<b>B</b>	300	300	0.1	0.6	16.0	8.8

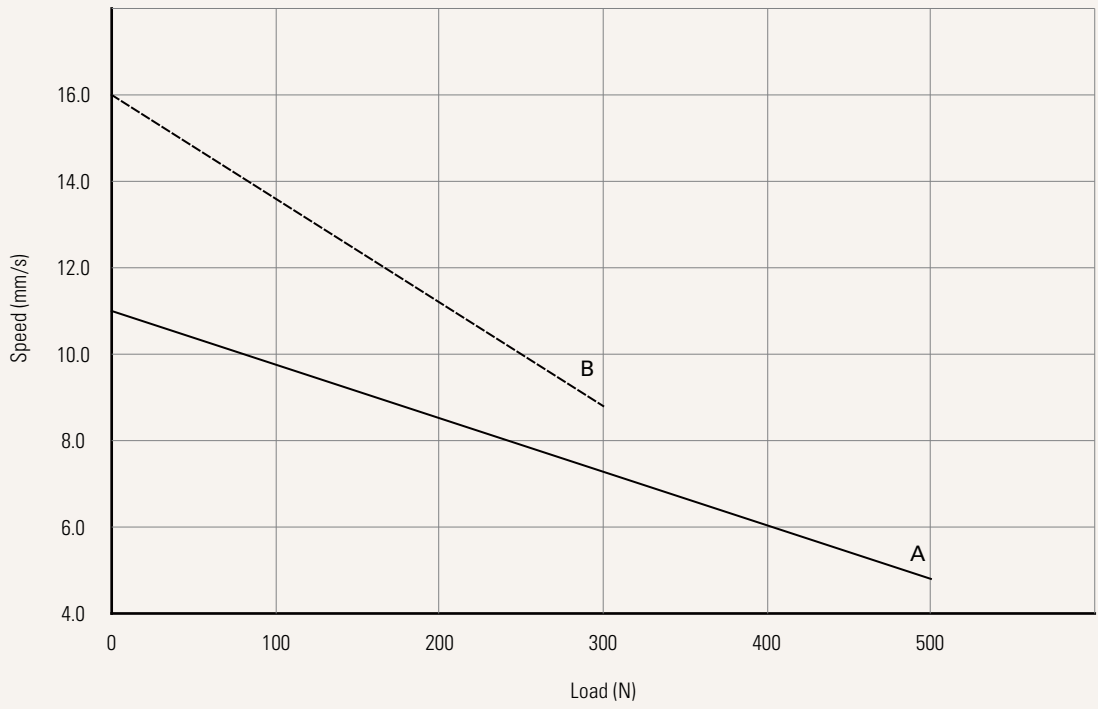
**Note**

- 1 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.
- 2 The current & speed in table are tested when the actuator is extending under push load.

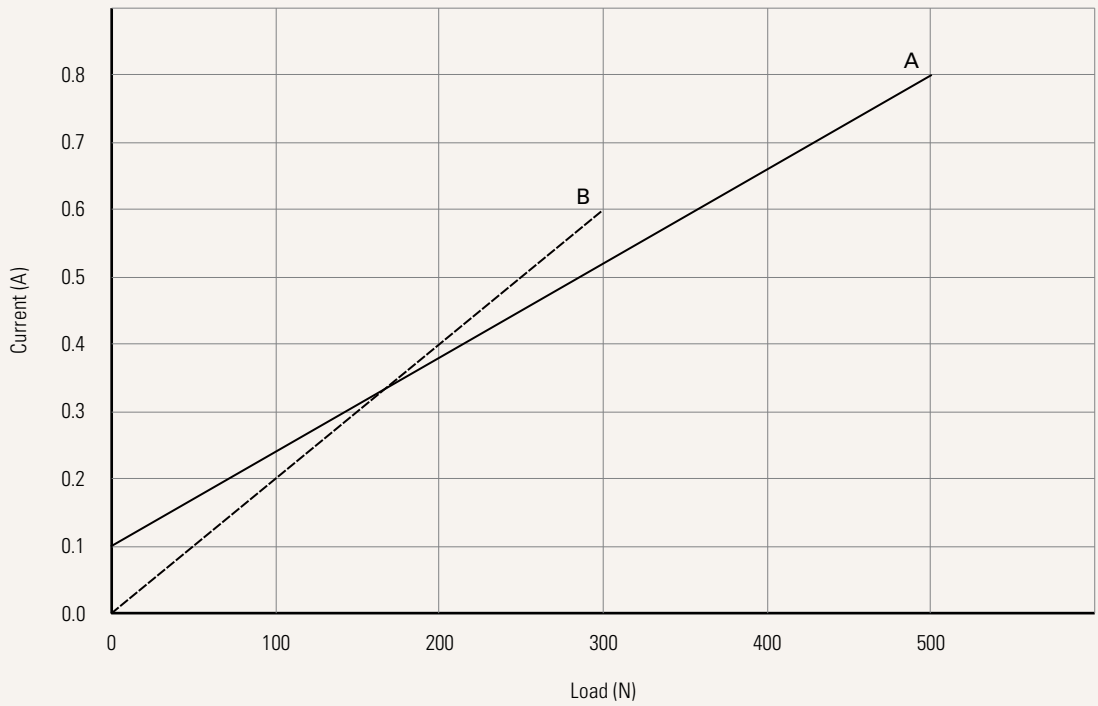
**Performance Data (24V DC Motor)**

Motor Speed (5000RPM, Duty cycle 10%)

Speed vs. Load



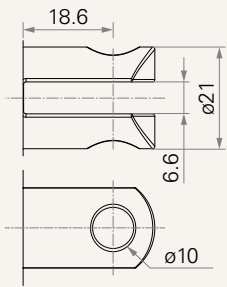
Current vs. Load



<b>Voltage</b>	2 = 24V	5 = 24V, PTC
<b>Load and Speed</b>	<a href="#">See page 2</a>	
<b>Stroke (mm)</b>	Stroke limitation 050 / 044 / 040 / 034 / 031 / 025 / 015	
<b>Retracted Length (mm)</b>	143	
<b>Rear Attachment (mm)</b>	1 = Plastic, U clevis, width 6.6, depth 18.6, hole 10.0 <a href="#">See page 5</a>	
<b>Front Attachment (mm)</b>	1 = Plastic, U clevis, width 6.6, depth 18.6, hole 10.0 <a href="#">See page 5</a>	
<b>Direction of Rear Attachment (Counterclockwise)</b>	1 = 0°	2 = 90° <a href="#">See page 5</a>
<b>Color</b>	1 = Black	2 = Grey (Pantone 428C)
<b>IP Rating</b>	1 = Without	
<b>Special Functions for Spindle Sub-Assembly</b>	0 = Without (Standard)	
<b>Functions for Limit Switches</b>	1 = Two switches at full retracted / extended positions to cut current 3 = Two switches at full retracted / extended positions to send signal <a href="#">See page 6</a>	
<b>Output Signals</b>	0 = Without	4 = One Hall sensor 5 = Two Hall sensors
<b>Connector</b>	1 = DIN 6P, 90° plug 2 = Tinned leads <a href="#">See page 6</a>	3 = Small 01P, plug B = Y cable (direct cut, no water proof, no anti - pull)
<b>Cable Length (mm)</b>	1 = Straight, 500 2 = Straight, 750 3 = Straight, 1000	4 = Straight, 1250 5 = Straight, 1500 6 = Straight, 2000 7 = Curly, 200 8 = Curly, 400 B-H = For direct cut system <a href="#">See page 6</a>

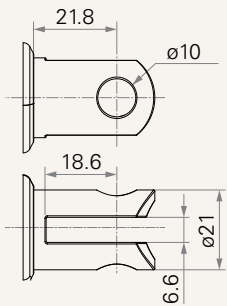
## Rear Attachment (mm)

1 = Plastic, U clevis, width 6.6, depth 18.6, hole 10.0



## Front Attachment (mm)

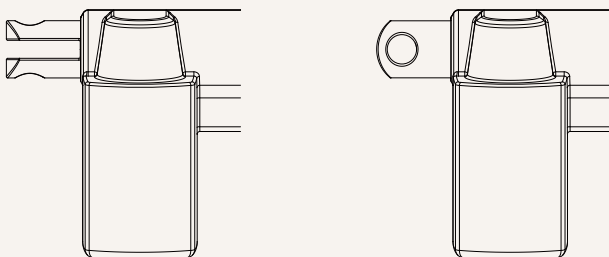
1 = Plastic, U clevis, width 6.6, depth 18.6, hole 10.0



## Direction of Rear Attachment (Counterclockwise)

1 = 0°

2 = 90°



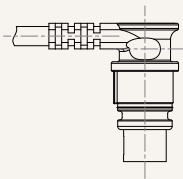
## Functions for Limit Switches

### Wire Definitions

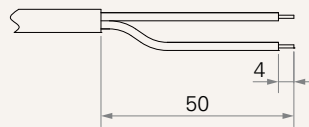
CODE	Pin					
	● 1 (Green)	● 2 (Red)	○ 3 (White)	● 4 (Black)	● 5 (Yellow)	● 6 (Blue)
1	extend (VDC+)	N/A	N/A	N/A	retract (VDC+)	N/A
2	extend (VDC+)	N/A	middle switch pin B	middle switch pin A	retract (VDC+)	N/A

### Connector

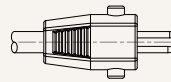
1 = DIN 6P, 90° plug



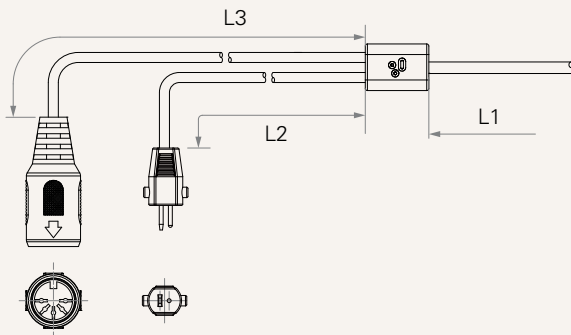
2 = Tinned leads



3 = Small 01P, plug



B = Y cable (direct cut, no water proof, no anti - pull)



### Cable length for direct cut system (mm)

CODE	L1	L2	L3
B	100	100	100
C	100	1000	400
D	100	2700	500
E	1000	100	100
F	100	600	1000
G	1500	1000	1000
H	100	100	1200

### 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.