

Product Segments

Comfort Motion

TiMOTION's TA26 series electric linear actuator is designed for furniture applications such as recliners or lift chairs. This linear actuator is designed to function as a direct cut system, eliminating the need for a control box, offering a straightforward and cost effective alternative to complex electric actuation systems.

General Features

Max. load 4,000N (push); 2,000N (pull)

Max. speed at max. load 6.1mm/s
Max. speed at no load 24mm/s

Retracted length ≥ Stroke + 120mm

Certificate UL962

Output signals Hall sensor(s)

Voltage 12/24V DC; 24V DC (PTC)

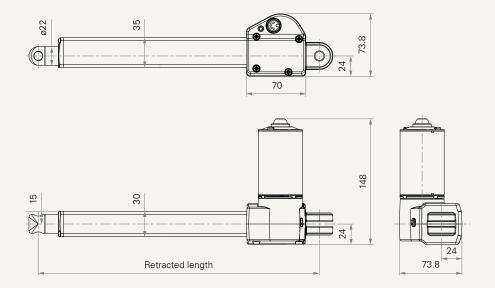
Color Black

Operational temperature range +5°C~+45°C

1

Drawing

Standard Dimensions (mm)



Load and Speed

CODE	CODE Load (N)		Self Lock	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 Spe	ed (3800RPM	, duty cycle 10°	%)						
Α	4000	2000	3000	4000	1.0	5.0	12.0	6.1	
В	3000	2000	500	2500	1.0	4.5	18.0	7.5	
С	2000	2000	350	1500	1.0	4.0	24.0	12.8	

Note

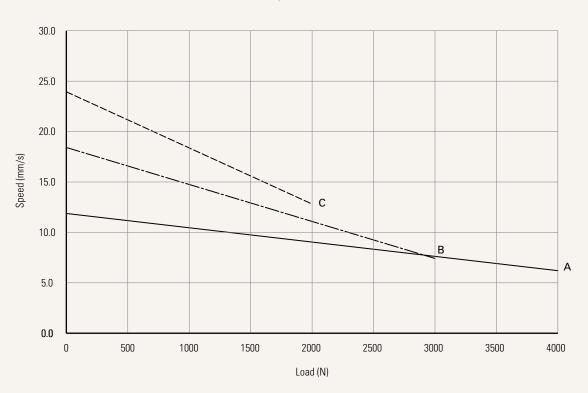
- 1 Please refer to the approved drawing for the final authentic value.
- 2 This self-locking force level is reached only when a short circuit is applied on the terminals of the motor. All the TiMOTION control boxes have this feature built-in.
- 3 Operational temperature range: -25°C~+65°C
- 4 The current & 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; speed will be similar for both 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.



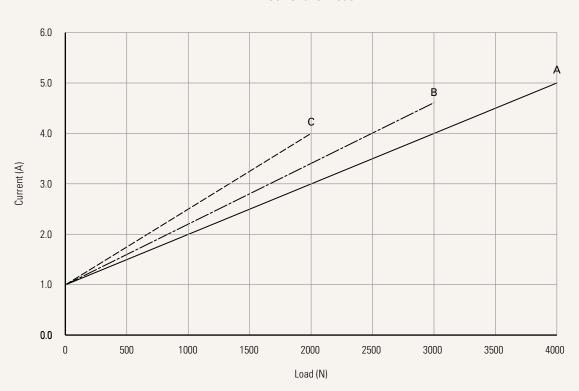
Performance Data (24V DC Motor)

Motor Speed (3800RPM)

Speed vs. Load



Current vs. Load





TA26 Ordering Key



TA26

			Vel	rsion: 20220712-D	
Voltage	1 = 12V	2 = 24V	5 = 24V, PTC		
Load and Speed	See page 2				
Stroke (mm)	See page 5				
Retracted Length (mm)	See page 5				
Rear Attachment (mm) See page 5	1 = Plastic, clevis U, s	lot 6.2, depth 16.0, hole 10.2			
Front Attachment (mm) See page 5	1 = Plastic, no slot, ho 2 = Plastic, no slot, ho 3 = Aluminum casting, 8.2		4 = Aluminum casting, clevis U, slot 6.2, depth 17.0, hole 10.2		
Special Functions for Spindle Sub- Assembly	0 = Without				
Functions for Limit Switches 1 = Two switches at full retracted / extended positions to cut current 2 = Two switches at full retracted / extended positions to cut current + 3rd LS 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 + 3rd LS to send signal					
Output Signals	0 = Without	1 = Hall sensor * 1	2 = Hall sensor * 2		
Connector See page 6	1 = DIN 6P, 90° plug 2 = Tinned leads 3 = Small 01P, plug P = Molex 8P, 90° plug	g, 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)	0 = Straight, 100 1 = Straight, 500 2 = Straight, 750 3 = Straight, 1000	4 = Straight, 1250 5 = Straight, 1500 6 = Straight, 2000 7 = Curly, 200		ut operation o actuators.	

TA26 Ordering Key Appendix



Retracted Length (mm)

- 1. Calculate A+B=Y
- 2. Retracted length needs to ≥ Stroke + Y

A. Front Attach.				
1, 2	+120			
3, 4	+150			

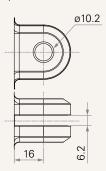
B. Stroke (mm)				
0~150	-			
151~200	-			
201~250	+5			
251~300	+10			
301~350	+15			
351~400	+20			

Note

 ${\bf 1}\,$ For stroke over 200mm, +5mm for each increment of 50mm stroke .

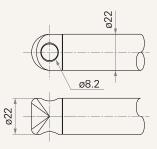
Rear Attachment (mm)

1 = Plastic, clevis U, slot 6.2, depth 16.0, hole 10.2

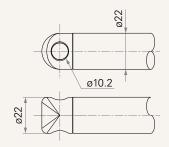


Front Attachment (mm)

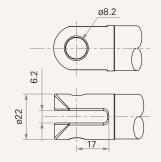
1 = Plastic, no slot, hole 8.2



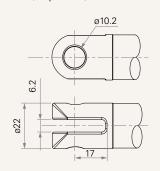
2 = Plastic, no slot, hole 10.2



3 = Aluminum casting, clevis U, slot 6.2, depth 17.0, hole 8.2



4 = Aluminum casting, clevis U, slot 6.2, depth 17.0, hole 10.2



TA26 Ordering Key Appendix

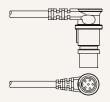


Functions for Limit Switches

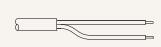
Wire Definitions								
CODE	Pin							
	1 (Green)	2 (Red)	3 (White)	4 (Black)	5 (Yellow)	6 (Blue)		
1	extend (VDC+)	N/A	N/A	N/A	retract (VDC+)	N/A		
2	extend (VDC+)	N/A	middle switch pin B	middle switch pin A	retract (VDC+)	N/A		
3	extend (VDC+)	common	upper limit switch	N/A	retract (VDC+)	lower limit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

Connector

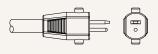
1 = DIN 6P, 90° plug



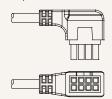




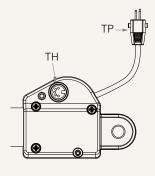
3 = Small 01P, plug



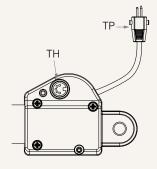
P = Molex 8P, 90° plug, without anti-clip



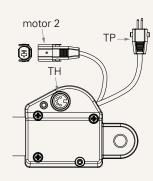
K = 1 motor direct cut system



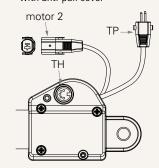
J = 1 motor direct cut system, with anti-pull cover

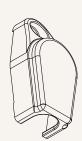


L = 1+1, 2 motors direct cut system



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





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