🔓 T‡MOTION

TA26 series



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.

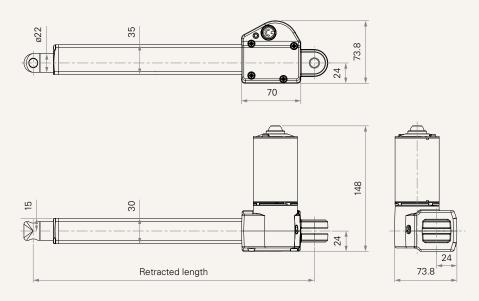
General Features

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
Options	Hall sensor(s)
Voltage	12/24V DC; 24V DC (PTC)
Color	Black
Operational temperature range	+5°C~+45°C

TA26 series

Drawing

Standard Dimensions (mm)



Load and Speed

CODE	Load (N)	_oad (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 Spee	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	
C	2000	2000	350	1500	1.0	4.0	24.0	12.8	

Note

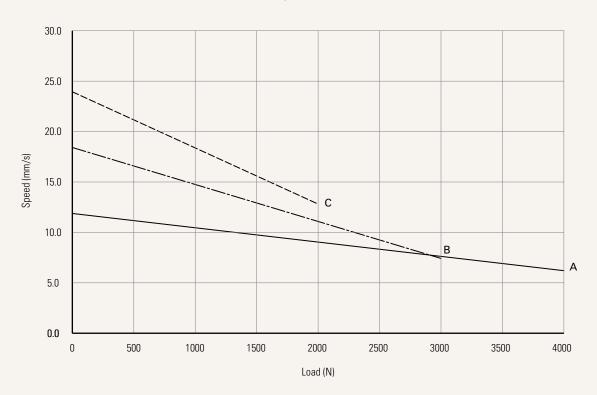
- 1 Please refer to the approved drawing for the final authentic value.
- 2 This self-locking force level is reached only when a short circuit is applied on the terminals of the motor. All the TiMOTION control boxes have this feature built-in.
- 3 Operational temperature range: -25°C~+65°C
- 4 The current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





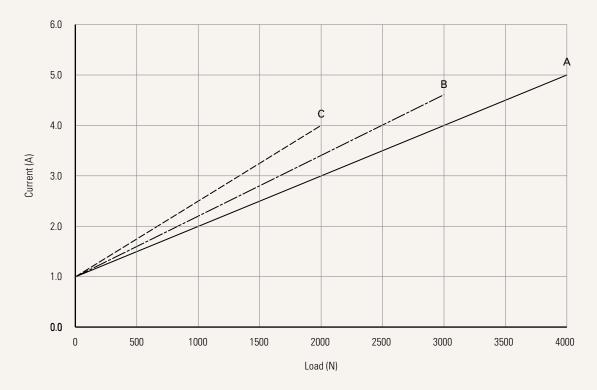
Performance Data (24V DC Motor)

Motor Speed (3800RPM)





Current vs. Load





TA26 Ordering Key

1 T*i* MOTION

TA26

				Version: 2020100		
Voltage	1 = 12V	2 = 24V	5 = 24V, PTC			
Load and Speed	<u>See page 2</u>					
Stroke (mm)	<u>See page 5</u>					
Retracted Length (mm)	<u>See page 5</u>					
Rear Attachment (mm) See page <u>5</u>	1 = Plastic, clevis U, slo	t 6.2, depth 16.0, hole 10.2				
Front Attachment (mm) See page <u>5</u>	1 = Plastic, no slot, hole 2 = Plastic, no slot, hole 3 = Aluminum casting, c hole 8.2		hole 10.2	clevis U, slot 6.2, depth 17.0,		
Special Functions for Spindle Sub- Assembly	0 = Without					
Functions for Limit Switches See page <u>6</u>	 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	2 = Hall sensor * 2		
Connector See page 6	1 = DIN 6P, 90° plugP = Molex 8P, 90° plug, without anti-clip2 = Tinned leadsK = Single motor, direct cut system3 = Small 01P, plugL = 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 = Direct cut operation with single actuator L = Direct cut operation with two actuators		



Retracted Length (mm)

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

A. Front Attach.

1, 2	+120
3, 4	+150

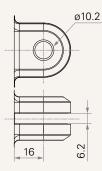
B. Stroke (mm)				
0~150	-			
151~200	-			
201~250	+5			
251~300	+10			
301~350	+15			
351~400	+20			

Note

1 For stroke over 200mm, +5mm for each increment of 50mm stroke .

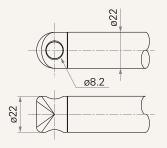
Rear Attachment (mm)

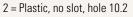
1 = Plastic, clevis U, slot 6.2, depth 16.0, hole 10.2

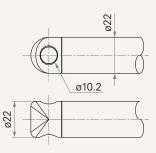


Front Attachment (mm)

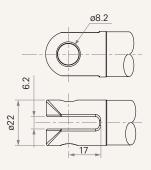
1 = Plastic, no slot, hole 8.2



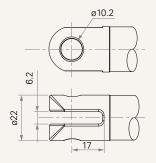




3 = Aluminum casting, clevis U, slot 6.2, depth 17.0, hole 8.2



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



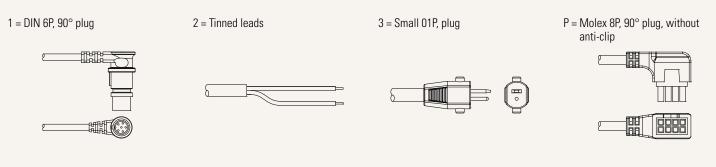
TA26 Ordering Key Appendix



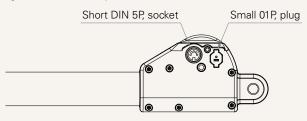
Functions for Limit Switches

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	

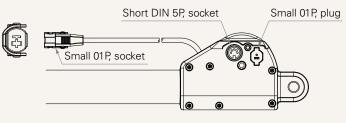
Connector



K = Single motor, direct cut system



L = 1+1, 2 motors direct cut system



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