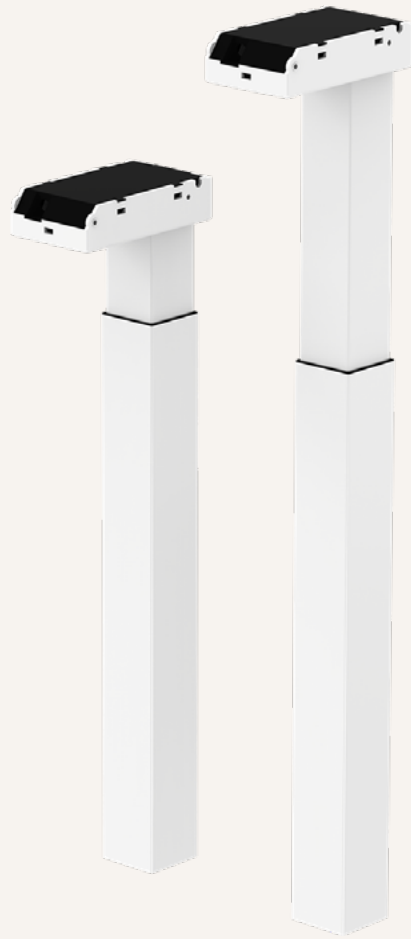


TL13S

series



Product Segments

• Ergo Motion

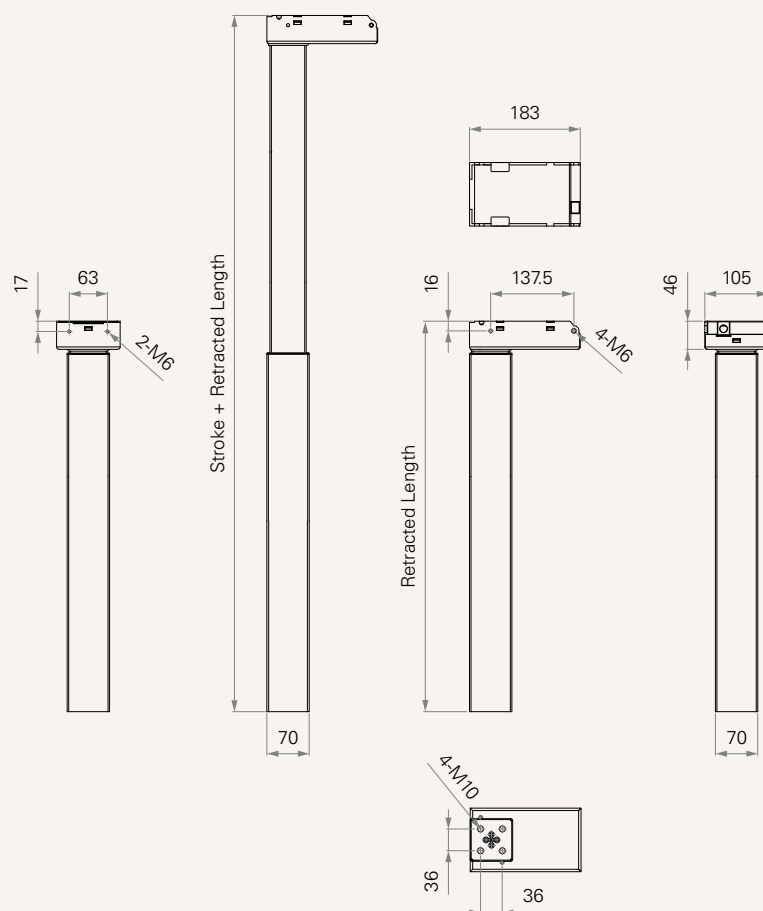
TiMOTION's TL13S series lifting columns are specifically designed for use in ergonomic desks and work tables. Using multiple TL series lifting columns with compatible TC series control boxes and TH / TDH series controls, work surfaces can be controlled quietly and smoothly with synchronous movement. All Ergo Motion TC series control boxes have a less than 0.1W standby power option that reduces power consumption. Our wide range of columns offers customers the solutions they require to satisfy their project requirements. The TL13S has a two stage telescopic outer tube that is designed for a narrow-top, wide-bottom square appearance.

General Features

Max. load	700N (push)
Max. speed at max. load	30mm/s
Max. speed at no load	38mm/s
Retracted length	Standard outer tube: 645mm Extended outer tube: 665mm
Dimension of outer tube	70*70mm square
Stages	2-stage
Stroke	500mm
Output signals	Hall sensor * 2
Voltage	24V DC
With motor house	

Drawing

Standard Dimensions
(mm)



Load and Speed

CODE	Load (N)	Self Locking Force (N)	Typical Current (A)		Typical Speed (mm/s)	
	Push		No Load 32V DC	With Load 24V DC	No Load 32V DC	With Load 24V DC
Motor Speed (5200RPM, short motor)						
B	700	700	2.0	4.2	38.0	30.0

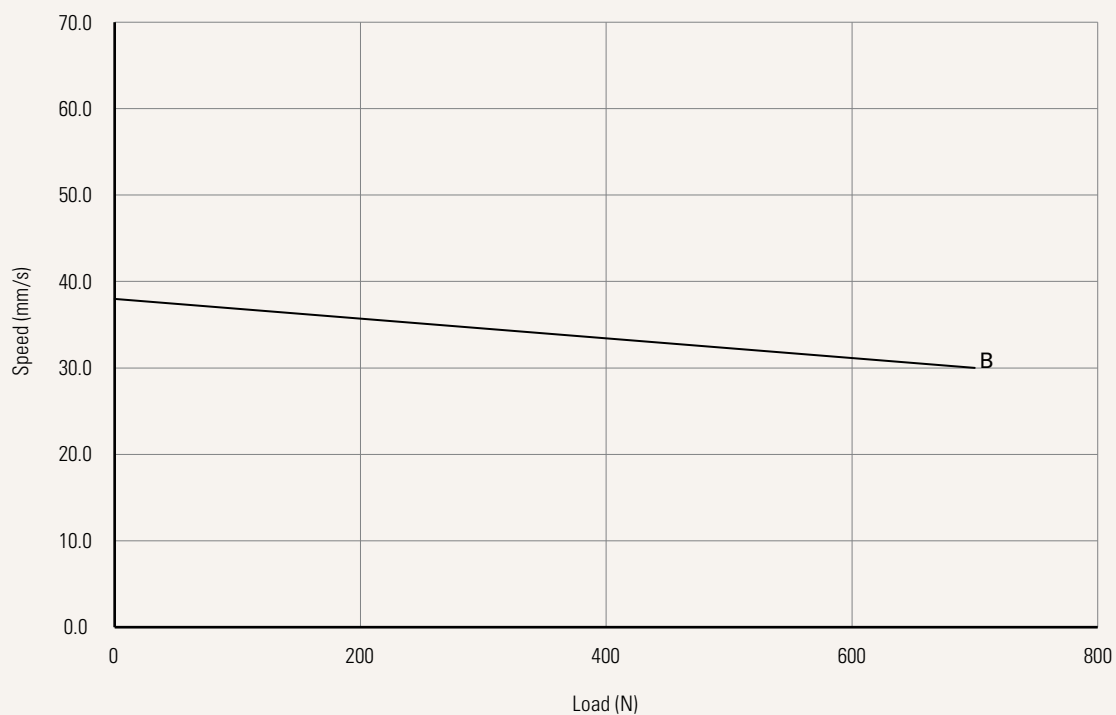
Note

- 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 Please refer to the approved drawing for the final authentic value.

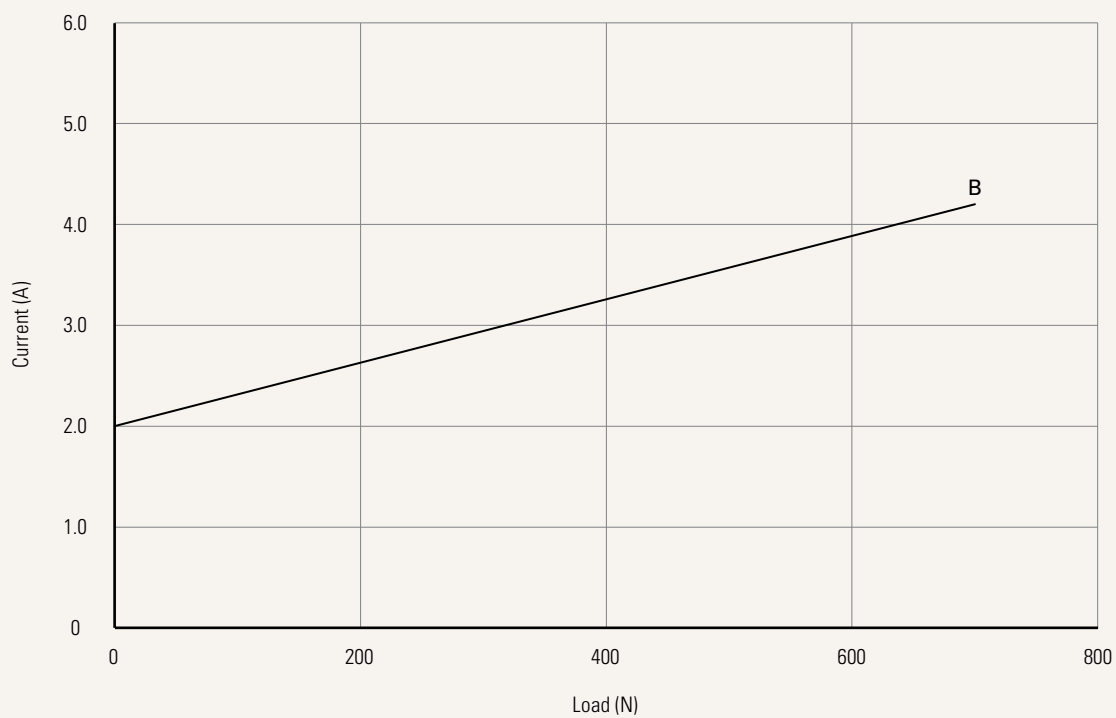
Performance Data (24V DC Motor)

Motor Speed (5200RPM, short motor)

Speed vs. Load



Current vs. Load



Note

1 The performance data in the curve charts shows theoretical value.

TL13S

Version: 20260120-E

	Appearance of Tubes	C = Without wiper fixing holes at sides		
	Voltage	2 = 24VDC		
	Load and Speed	See page 2		
	Stroke & Retracted Length (mm)	See page 5		
	Color	1 = Black, RAL 9005, Black wiper		
		2 = Grey, RAL 9006, Black wiper		
		3 = White, RAL 9016, Black wiper		
		4 = Special grey, RAL 9022, Black wiper		
		6 = Grey, RAL 9006, Grey wiper		
		7 = White, RAL 9016, White wiper		
	Motor Housing Step	0 = With 1 = Without		
	Output Signals	2 = Hall sensors * 2		
	Connector See page 5	1 = DIN 6P, 90° plug		
		E = Molex 8P, 180° plug, standard		
	Cable Length (mm)	F = Molex 8P, 90° plug, without anti-clip, for TC22 / TC23		
	Welding Part See page 5	1 = Straight, 500		
		3 = Straight, 1000		
		4 = Straight, 1500		
	Welding Part See page 5	0 = Without		
		L = Left, Standard bracket		
		R = Right, Standard bracket		
	Welding Part See page 5	B = Back, Standard bracket (For wall mounting application)		

Note

¹ The TL13S is designed especially for push applications, not suitable for pull applications.

Stroke & Retracted Length (mm)

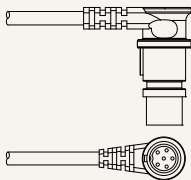
Foot Assembly	Stroke & Retracted Length
	Standard
Standard, with Foot	500 / 645
Extended Outer Tube for Shoe (Excluding Shoe)	500 / 665

Note

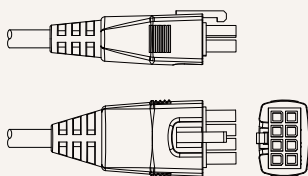
1 Only specific TEK could be with the shoes, please refer to TEK speccode

Connector

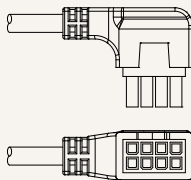
1 = DIN 6P, 90° plug



E = Molex 8P, 180° plug, standard

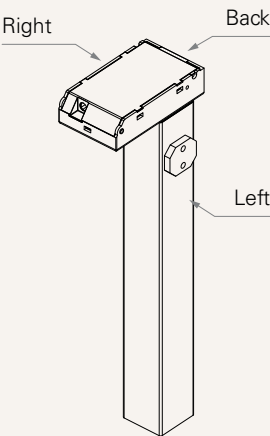


F = Molex 8P, 90° plug, without anti-clip, for TC22 / TC23



Welding Part

Standard direction



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.