

TL12

series



Product Segments

• Ergo Motion

TiMOTION's TL12 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 offer customers the solutions they require to satisfy their working environment project requirements. The TL12 has a three stage telescopic outer tube that is designed for a wide-top, narrow-bottom rectangular appearance.

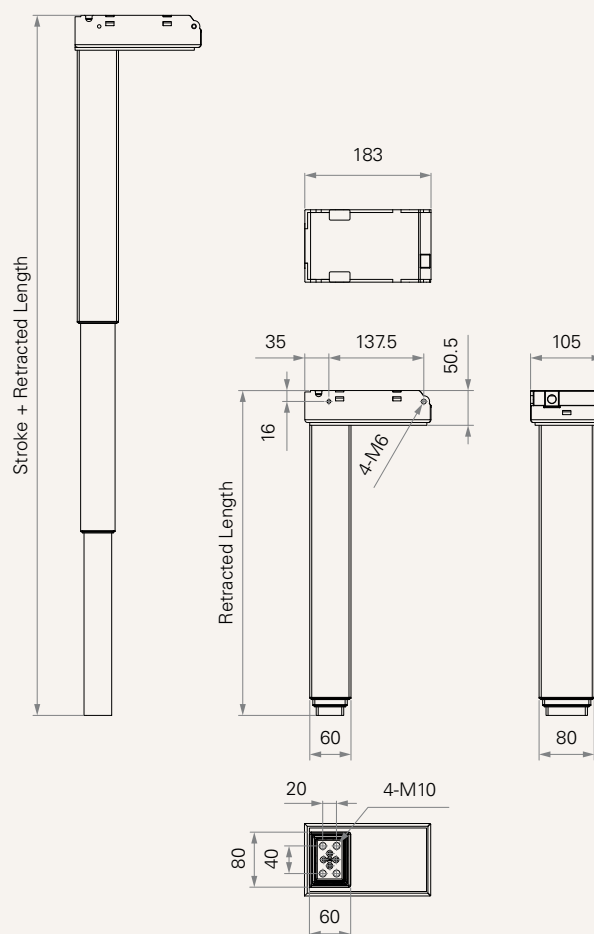
Additionally, the TL12 features an option for a longer stroke of 950mm, which makes this column a versatile solution for many applications such as a TV lift.

General Features

Max. load	800N (push)
Self-locking force	800N
Max. speed at max. load	39mm/s
Max. speed at no load	48mm/s
Retracted length	590 / 560 (M) / 700 (XL) mm
Dimension of outer tube	80*60mm rectangular
Stages	3-stage, upside down
Stroke	650 / 660 (M) / 950 (XL) mm
Output signals	Hall sensor*2
Voltage	24V DC, 24V DC (UL)
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 29V DC	With Load 29V DC	No Load 29V DC	With Load 29V DC
Motor Speed (5200RPM)						
C	800	800	2.8	6.0	48.0	39.0

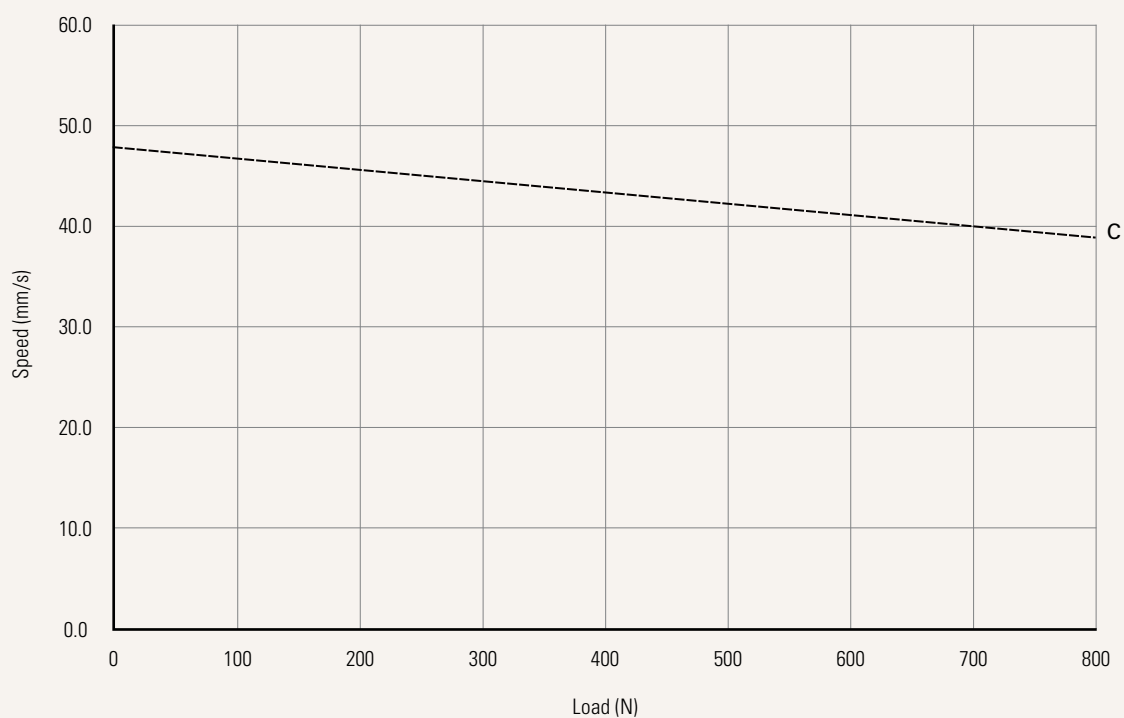
Note

- Above self lock, typical current and typical speed performance are tested with Timotion control boxes.
- Parameters above are from tested average, please refer to approval drawing for final value.

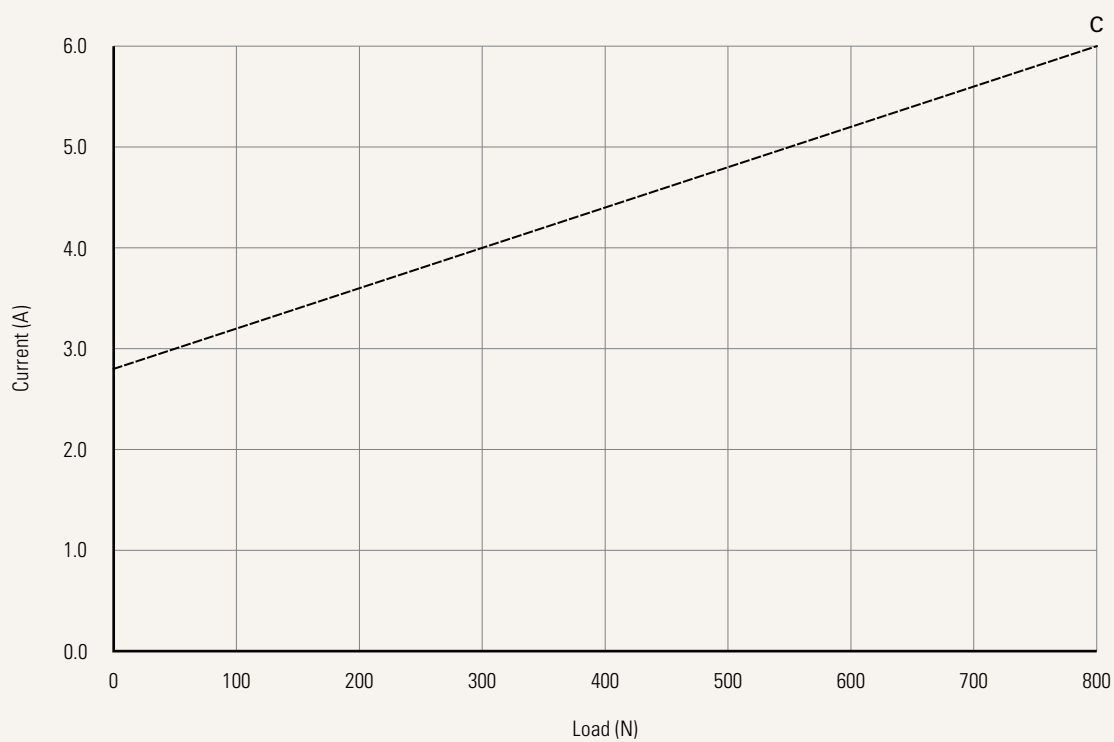
Performance Data (24V DC Motor)

Motor Speed (5200RPM)

Speed vs. Load



Current vs. Load



TL12

Version: 20260123-H



Appearance of Tubes	C = Without wiper fixing holes at sides		
Voltage	2 = 24V DC	3 = 24V DC, UL	
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 8 = Special grey, RAL 9022, Grey wiper B = Matte black, RAL 7021, Black wiper C = Graphite grey, RAL7024, Black wiper D = Matte black, RAL 7021, Matte Black wiper	
Motor Housing	0 = With	1 = Without	
Output Signals	2 = Hall sensor * 2		
Connector See page 5	1 = DIN 6P, 90° plug E = Molex 8P, 180° plug, standard	F = Molex 8P, 90° plug, without anti-clip, for TC22/TC23	
Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500
Bracket	0 = Without		

Note

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

Stroke & Retracted Length (mm)

Foot Assembly	Stroke & Retracted Length		
	Standard	M	XL
Standard, for Foot (Excluding Foot)	650 / 590	660 / 560	950 / 700

Note

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

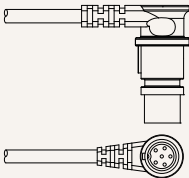
Foot Assembly

Standard, for foot (excluding foot)

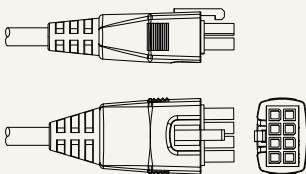


Connector

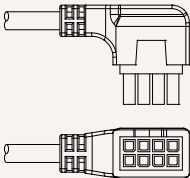
1 = DIN 6P, 90° plug



E = Molex 8P, 180° plug, standard



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



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.