

TL5

series



Product Segments

• Ergo Motion

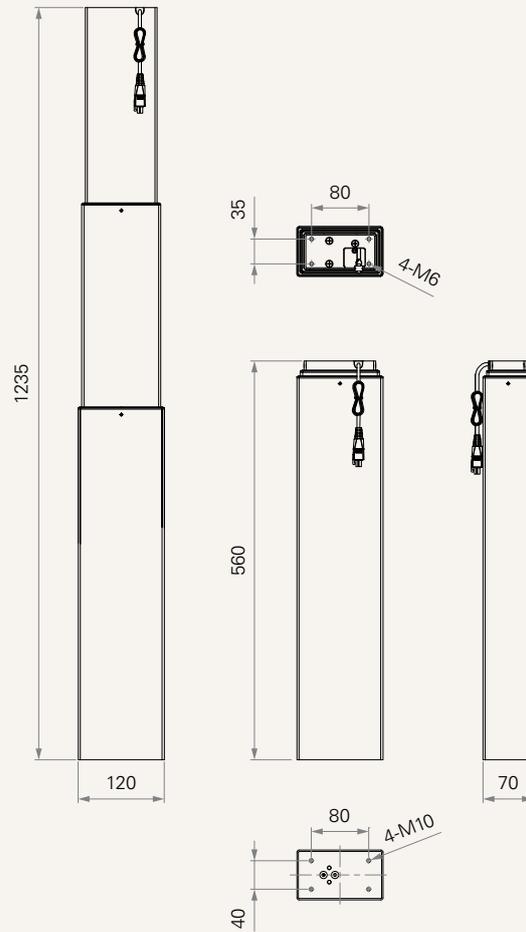
TiMOTION's TL5 series columns are designed with an extruded steel square appearance for use in ergonomic furniture applications. Our TL5 provides stable vertical lifting. This makes the engineering design process easier and safer by replacing older style lifting mechanisms that use many moving stages and have pinch points. The 3 stage telescopic design enables a greatly reduced retracted height and provides an increased stroke length while ensuring a high degree of stability.

General Features

Max. load	800N (push)
Max. speed at max. load	20mm/s
Max. speed at no load	36mm/s
Retracted length	560mm
Dimension of outer tube	3-stage, 120*70mm rectangular
Stroke	675mm
Current at rated load	5A
Color	Black, white, or grey

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 (3800RPM)						
A	500	500	2.5	4.0	36.0	20.0
Motor speed (5200RPM)						
B	800	1000	2.5	5.0	32.0	20.0

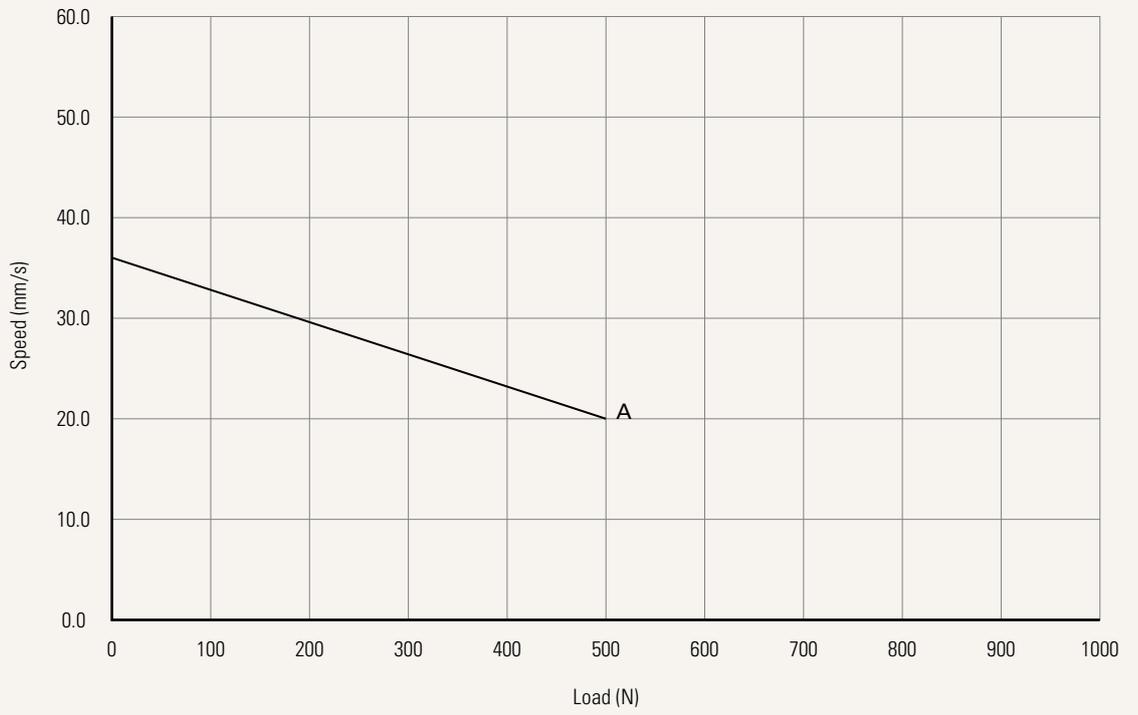
Note

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.

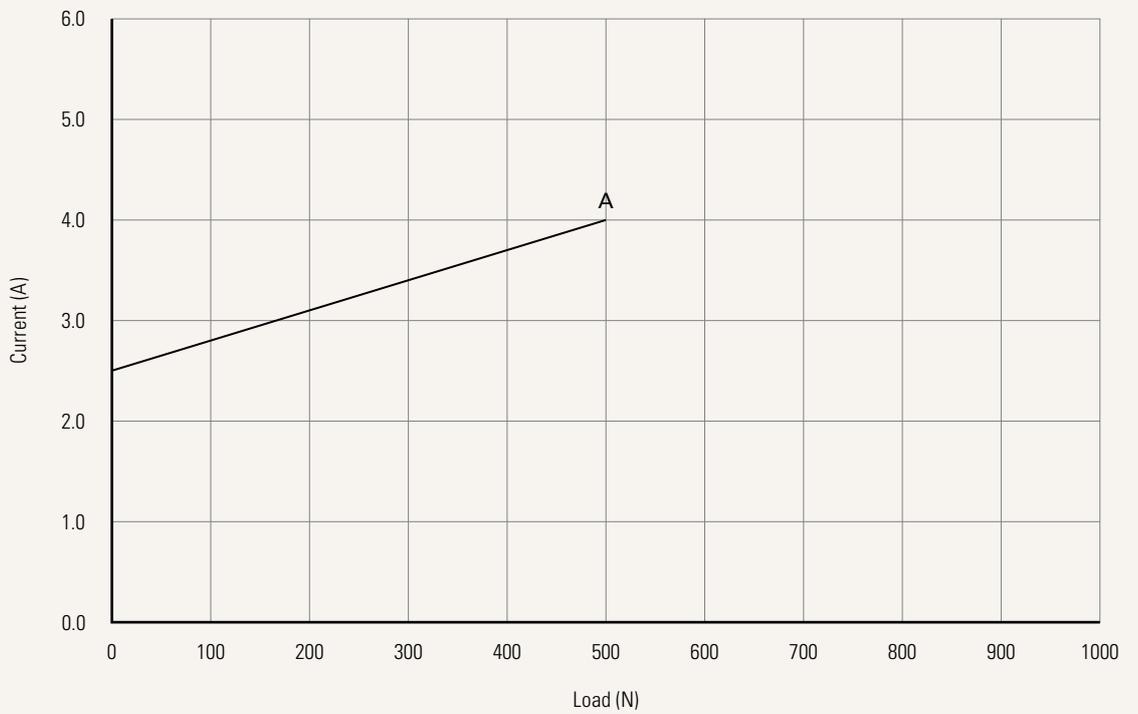
Performance Data (24V DC Motor)

Motor speed (3800RPM)

Speed vs. Load



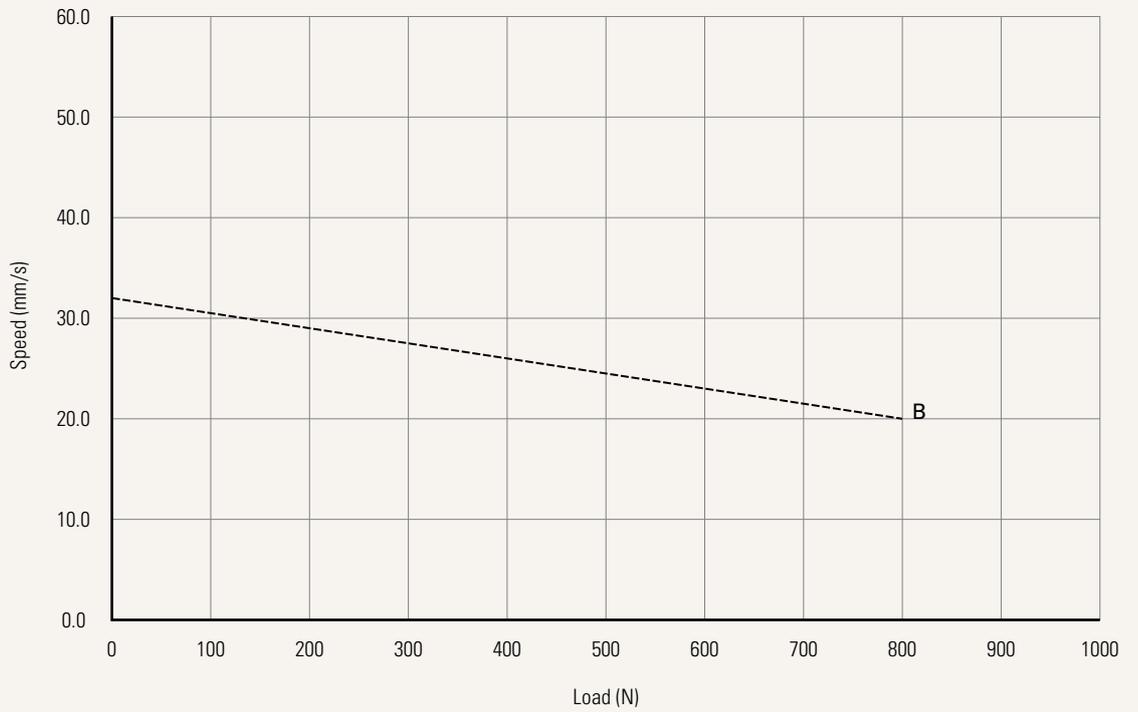
Current vs. Load



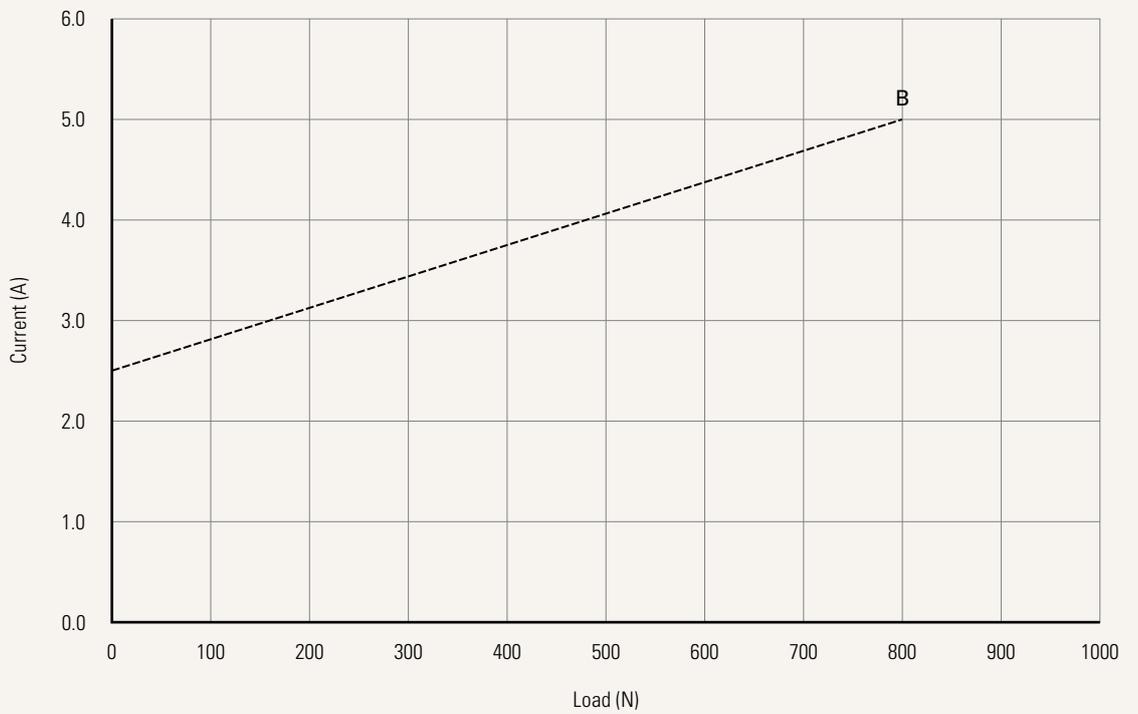
Performance Data (24V DC Motor)

Motor speed (5200RPM)

Speed vs. Load



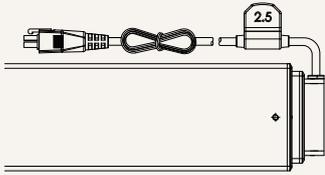
Current vs. Load



Voltage	2 = 24V DC	5 = 24V DC, PTC. See page 6		
Load and Speed	See page 2			
Stroke (mm)	675 (Standard)			
Retracted Length (mm)	560 (Standard)			
Color	1 = Black, RAL 9005, Black wiper	7 = White, RAL 9016, White wiper		
	2 = Grey, RAL 9006, Black wiper	8 = Special grey, RAL 9022, Grey wiper		
	3 = White, RAL 9016, Black wiper	B = Matte black, RAL 7021, Black wiper		
	4 = Special grey, RAL 9022, Black wiper	C = Graphite grey, RAL7024, Black wiper		
	6 = Grey, RAL 9006, Grey wiper	D = Matte black, RAL 7021, Matte Black wiper		
Functions for Limit Switches	1 = Two switches at full retracted / extended positions to cut current			
	See page 6			
Output Signals	0 = Without	2 = Hall sensor*2		
Plug	1 = DIN 6P, 90° plug	2 = Tinned leads	E = Molex plug 8P	F = DIN 6P, 180° plug
	See page 6			
Cable Length (mm)	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500	
Cable Exit	1 = From the top	2 = From the bottom		
	See page 6			

Voltage

5 = 24V DC, PTC



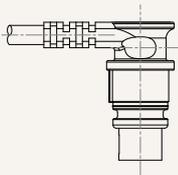
Functions for Limit Switches

Wire Definitions

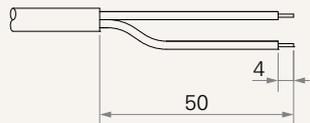
CODE	Pin					
	1 (Green)	2 (Red)	3 (White)	4 (Black)	5 (Yellow)	6 (Blue)
1	extend (VDC+)	N/A	N/A	N/A	retract (VDC+)	N/A

Plug

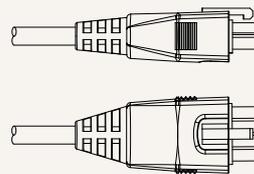
1 = DIN 6P, 90° plug



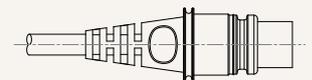
2 = Tinned leads



E = Molex plug 8P

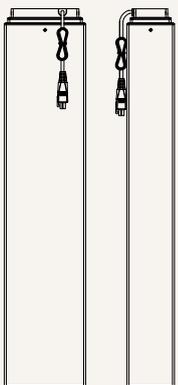


F = DIN 6P, 180° plug

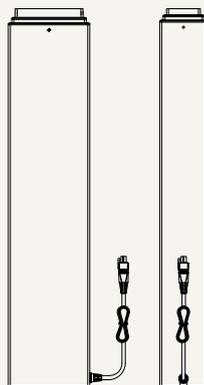


Cable Exit

1 = From the top



2 = From the bottom



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.