TA20
series

TiMOTION

## Product Segments

• **Ergo Motion**

The TA20 is a 3 stage inline actuator which combines long stroke length with minimum installation dimension. This actuator is suitable for various customized lifting columns in height adjustable furniture, particularly with the need for a slim and neat structure.

General Features

Max. load	700N (push)
Max. speed at max. load	38mm/s
Max. speed at no load	63mm/s
Retracted length	≥ (Stroke/2) + 177mm
Stroke	50~800mm
Options	Hall sensors
Operational temperature range	+5°C~+45°C
Suitable for 3-stage desk columns	

Drawing

Standard Dimensions
(mm)
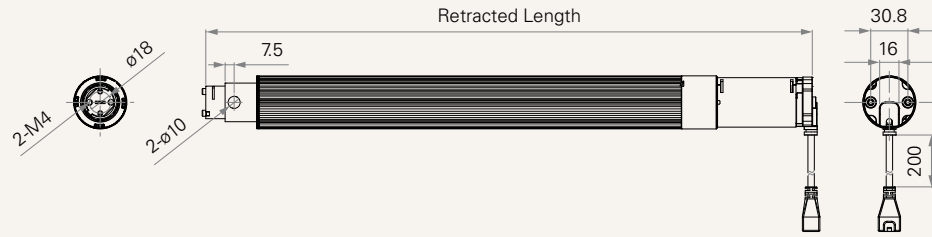
Load and Speed

CODE	Rated Load (N)	Typical Current (A)		Typical Speed (mm/s)	
		No Load 29V DC	With Load 29V DC	No Load 29V DC	With Load 29V DC
Motor Speed (5200RPM, Duty Cycle 10%)					
B	600	≤ 1.8	≤ 4.8	63	45
C	700	≤ 1.8	≤ 5.0	48	38

Note

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

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.

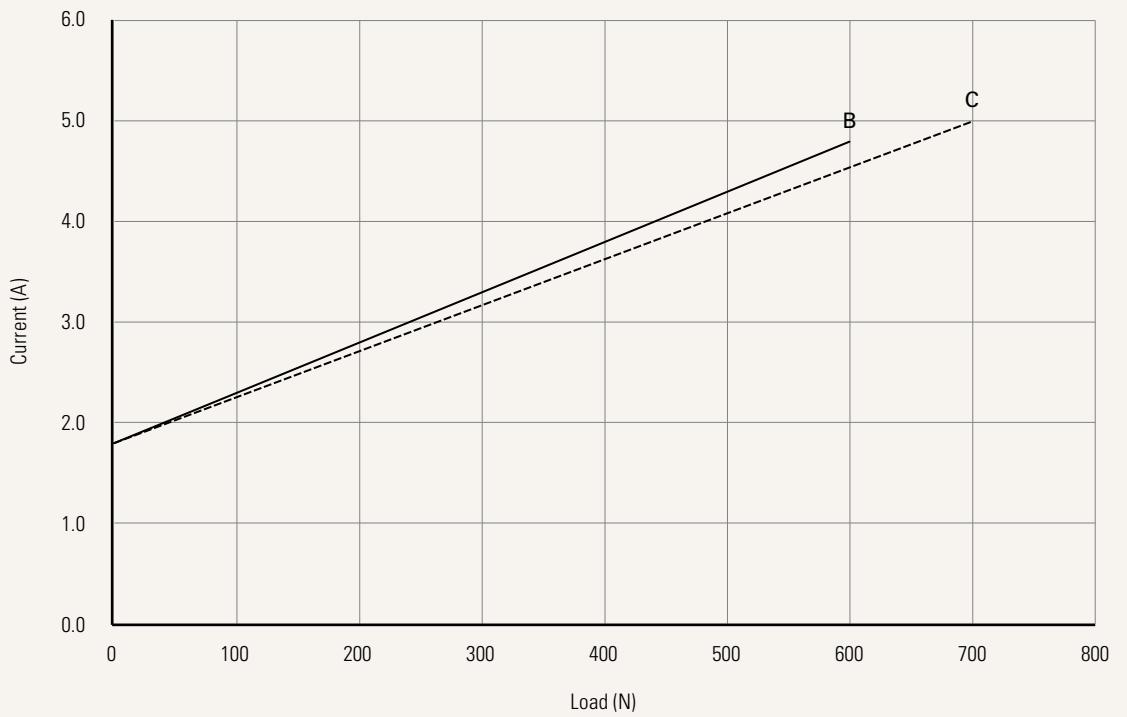**3** Please refer to the approved drawing for the final authentic value.

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Performance Data (24V DC Motor)

Motor Speed (5200RPM, Duty Cycle 10%)
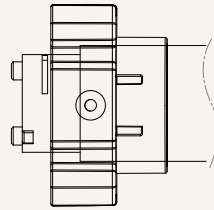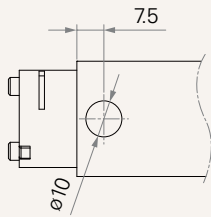
Speed vs. Load

Current vs. Load

TA20 Ordering Key

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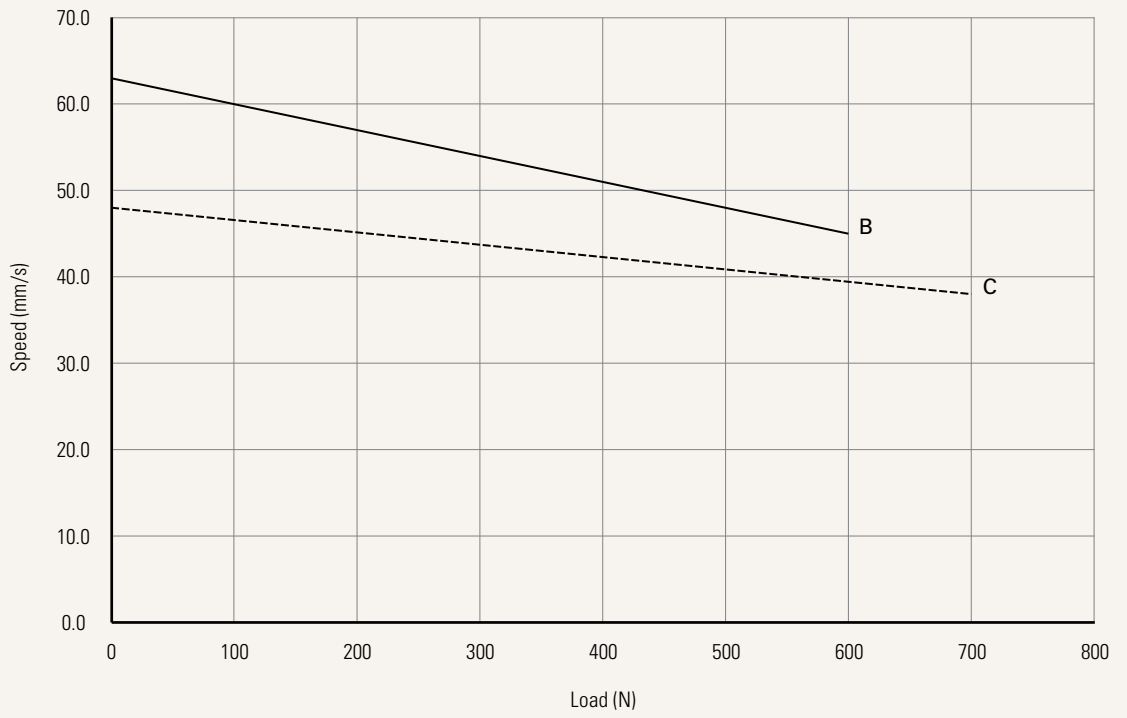
|			
Load and Speed	See page 2		
Stroke (mm)	50-800		
Retracted Length (mm)	Minimum retracted length needs to ≥ (stroke / 2) + 177		
Fixation of Mid-Tube (mm) See page 5	1 = Hole (Ø10.0)	2 = Fixation bracket	
Front Attachment (mm) See page 5	2 = Plastic		
Output Signals	2 = Hall sensor * 2, standard		
Connector See page 5	H = Molex 6P, socket		
Cable Length (mm) See page 5	1 = Straight, 200		
Extension Cable Connector See page 6	1 = Molex 6 pin (plug) to Molex 8 pin (plug), 180° plug, standard		
Extension Cable Length (mm) See page 6	1 = Straight, 500	3 = Straight, 1000	4 = Straight, 1500

Fixation of Mid-Tube (mm)

1 = Hole (Ø10.0)

7.5

ø10

2 = Fixation bracket

Front Attachment (mm)

2 = Plastic

2-ø3.2
ø27
ø18
ø5
ø5
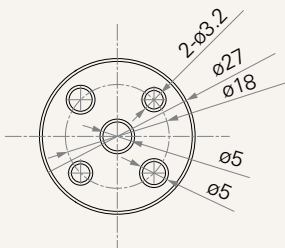
Connector

H = Molex 6P, socket

Cable Length

L

Connector

Product
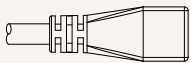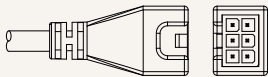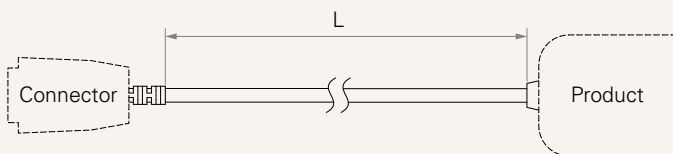
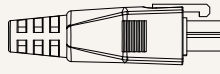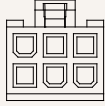| Cable Section (mm)	
CODE	L
1	200

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Extension Cable Connector

1 = Molex 6 pin (plug) to Molex 8 pin (plug), 180°plug, standard
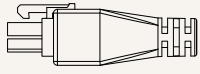
Molex 6 pin, plug   Molex 8 pin, plug

Extension Cable Length

Cable Length