

# Desk Lifting Column

## MTL3

MTL3 is a 3-section leg mainly used for electric height adjustable tables. Customers can put MTL3 into the legs, either in square or round shape. The compact transmission design provides quiet and quick operation. Besides, the 3-section mechanism is ideal for adjustable tables that require smaller installation lengths and longer strokes.

### Feature

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- Main applications: Furniture
- Input voltage: 24 ~ 32V DC
- Max. push load: 1200N
- Typical speed at no load: 45 mm/sec
- Typical speed at full load: 26 mm/sec (1200N load)
- Stroke: 650 mm
- Life cycle: More than 10,000 cycle under full load
- Positioning feedback with dual Hall effect sensors
- IP Protection level: IP20
- Noise level:  $\leq 50$ dB
- Duty cycle: 10%, max. 1 min. continuous operation in 10 min.
- CE Marking, EMC Directive 2014/30/EU,  
UL 962 Standard for Household and Commercial Furnishings.

### Option

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- Power cord length: 1200, 2000 mm

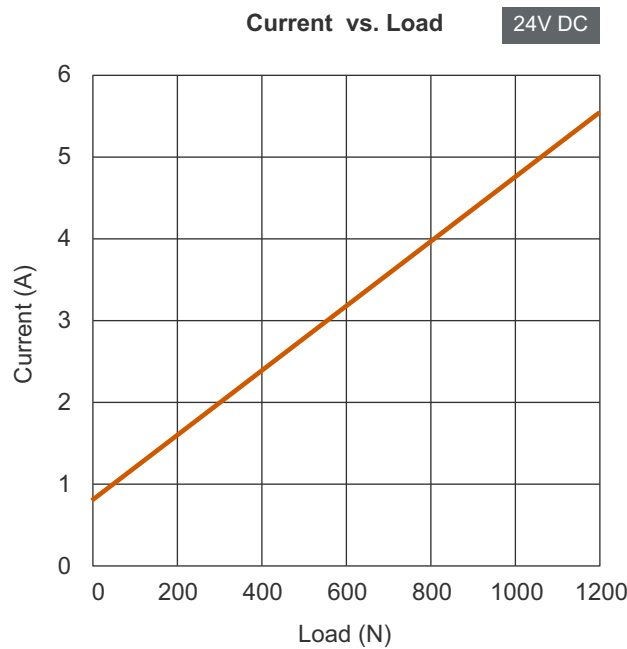
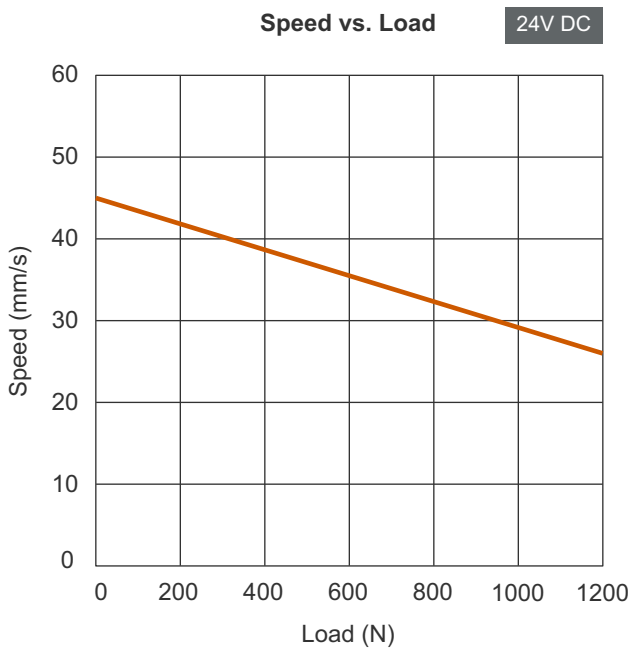


## Compatibility

| Product     | Model | MTL3 spec                              |
|-------------|-------|--|
| Control box | DKC3  | With Modico L1-type minifit 6-pin plug |

## Performance Data

| Input                 | Max. Push load (N) | ** Typical Speed (mm/s) |           | ** Typical Current (A) |           |
|-----------------------|--------------------|-------------------------|-----------|------------------------|-----------|
|                       |                    | No load                 | Full load | No load                | Full load |
| 24V DC power supply   | 1200               | 45                      | 26        | 0.8                    | 5.5       |
| DKC3(32V) control box | * 800 / 1200       | 28 ~ 30                 |           |                        |           |



### Remarks:

- \* When 2 pcs MTL3 are integrated into an adjustable desk with DKC3 control box, the max. lifting capability is 800N when the load is put at one side (*Fig. 1*), and is 1200N when the load is put at the center (*Fig. 2*).

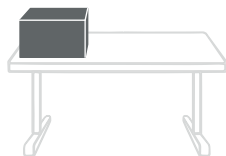


Fig. 1

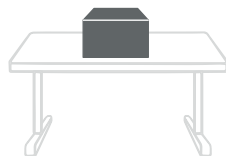
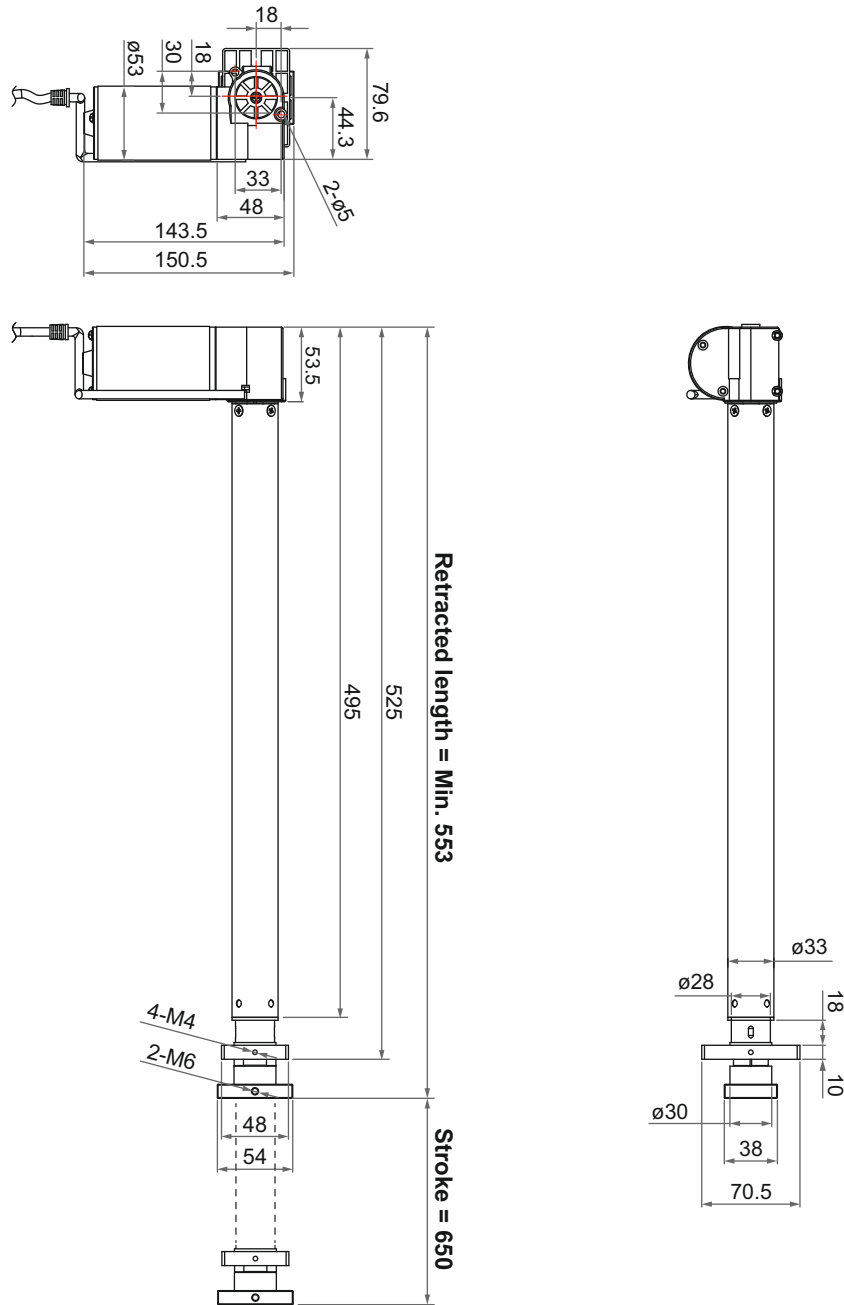


Fig. 2

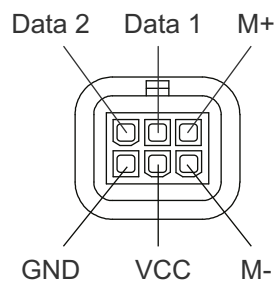
- \*\* The typical speed or typical current means the average value neither upper limit nor lower limit. The performance curves are made with typical values.

## Dimensions



## Cable Plug

### Modico L1-type minifit 6-pin, 180° plug



#### Note:

1. Connect Pin (M+) to "+" & Pin (M-) to "-" of DC power, the actuator will extend.
2. Hall effect sensor resolution: 1.25 pulses/mm



## Ordering Key

|                               |  |
|-------------------------------|--|
|                               | <b>MTL3 - 24 H6 - 553 - 1203 - 0 H 0 1</b>               |
| <b>Input voltage</b>          | <b>24:</b> 24V DC  |
| <b>Motor and Spindle type</b> | <b>H6</b><br>(Refer to Performance Data)                 |
| <b>Retracted length</b>       | <b>XXX</b><br>(Refer to Dimensions)                      |
| <b>Extended length</b>        | <b>XXXX</b><br>(Refer to Dimensions)                     |
| <b>Reserved</b>               | <b>0:</b> No meaning                                     |
| <b>Positioning feedback</b>   | <b>H:</b> Hall effect sensors x 2                        |
| <b>Reserved</b>               | <b>0:</b> No meaning                                     |
| <b>Power cord length</b>      | <b>1:</b> 1200 mm Straight<br><b>2:</b> 2000 mm Straight |

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