Desk Lifting Column
DKL3

DKL3 is a 3-section leg mainly used for electric height adjustable tables. Customers can put DKL3 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.

Features and Options

- Main application: Furniture
- Input voltage: 24 ~ 32V DC
- Max. load: 600N (Push/Pull)
- Speed at no load: 41mm/sec (Typical value)
- Speed at full load: 25mm/sec (Typical value @600N loaded)
- Stroke: 650mm
- Positioning feedback with dual Hall effect sensors
- Noise level: ≦50dB
- Duty cycle: 10%, max. 1 min. continuous operation in 10 min.
- Power cord length: 1200, 2000mm
- Certified: UL 962 Standard for Household and Commercial Furnishings

1

Performance Data

Input	Push/Pull Max. load (N)	** Typical Speed (mm/s)		** Typical Current (A)	
		No load	Full load	No load	Full load
24V DC power supply	600	41	25	1.4	5.3
CF11D(32V) control box	* 600 / 1200	28 ~ 30			

Speed VS. Load — 24V DC

Current VS. Load — 24V DC
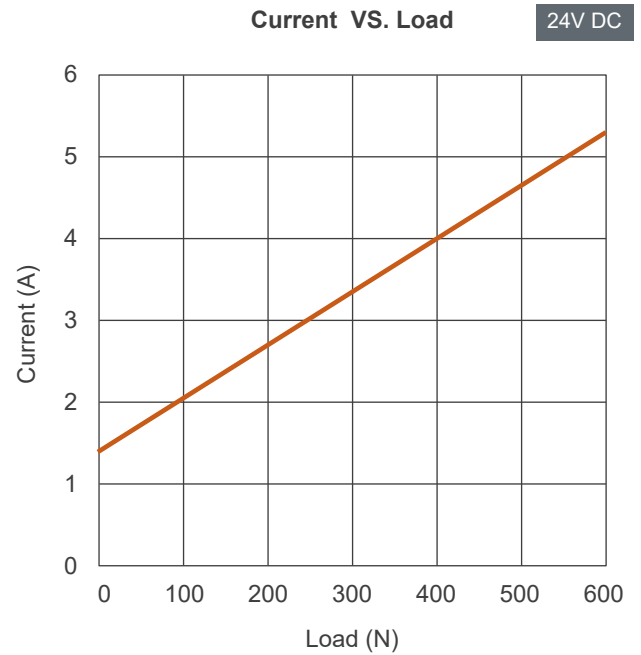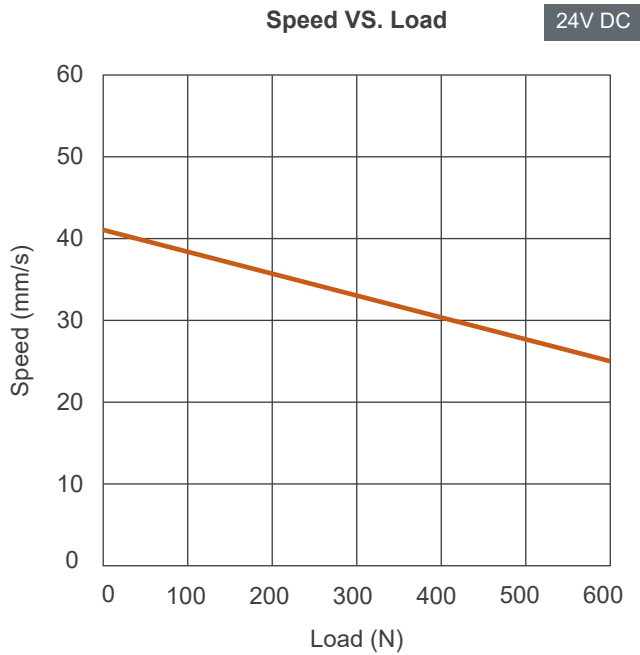
Remarks:

* When 2 pcs DKL3 are integrated into an adjustable desk with CF11D control box, the max. lifting capability is 600N when the load is put at one side (Fig. 1), and is 1200N when the load is put at the center (Fig. 2).
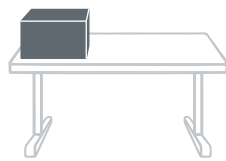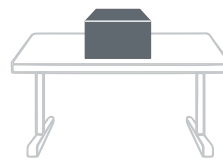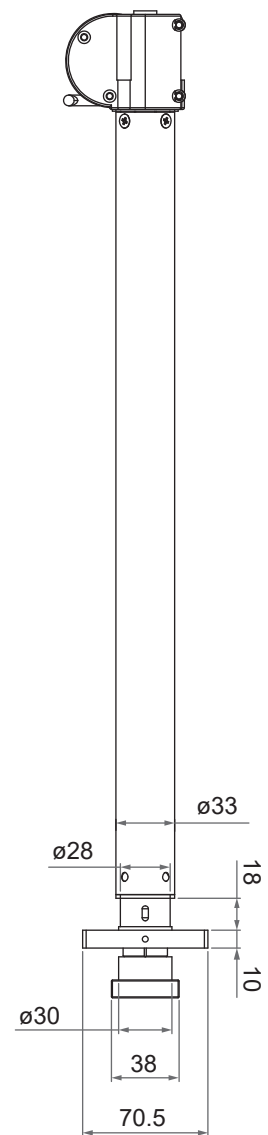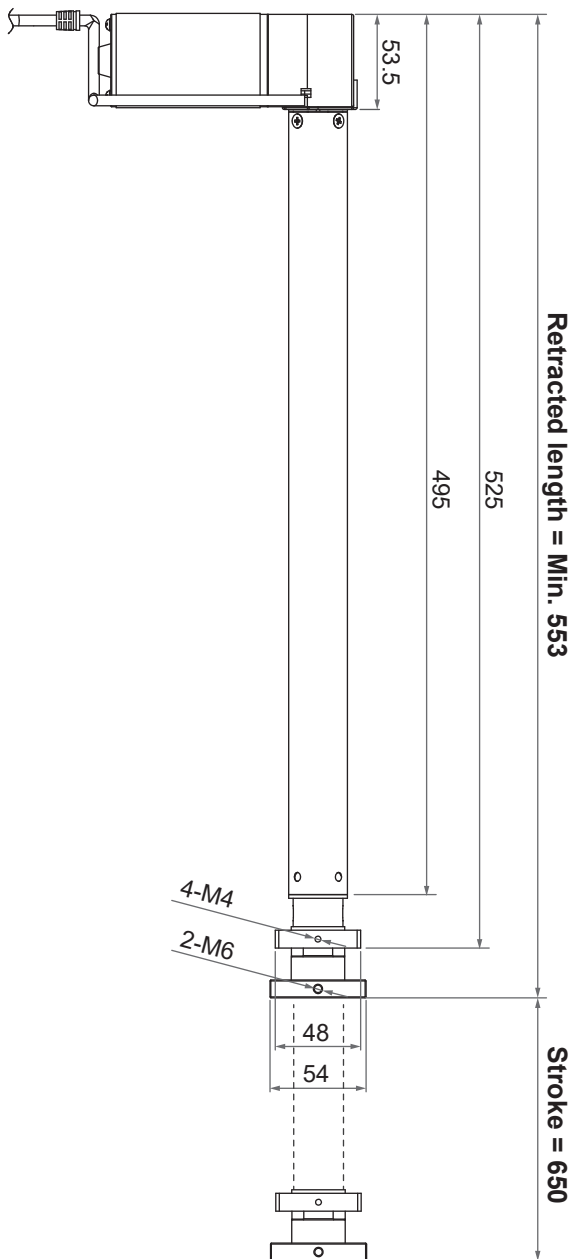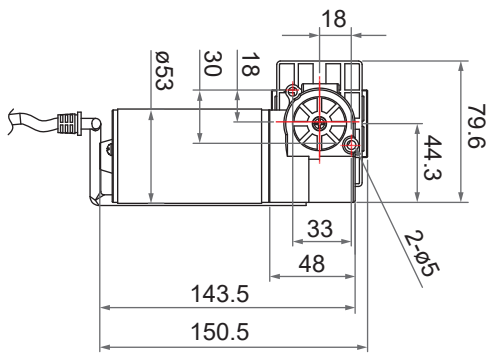

Fig. 1

Fig. 2

** The typical speed or typical current means the average value neither upper limit nor lower limit, which measured under room temperature and stable power. The performance curves are made with typical values.
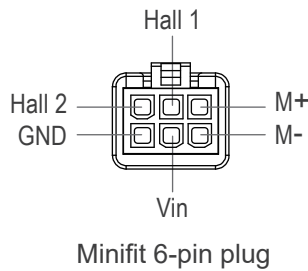
Dimensions

ø53

18

30

18

79.6

44.3

33

48

2-ø5

143.5

150.5

53.5

Retracted length = Min. 553

525

495

4-M4

2-M6

48

54

Stroke = 650

ø33

ø28

18

10

ø30

38

70.5

Unit: mm

Compatibility

Product	Model	DKL3 spec
Control box	CF11D	With Moteck L3-type minifit 6-pin plug

Cable Plug

● **With Moteck L3-type plug**

Minifit 6-pin plug

L3-type plug

Note: Pin definition

	Definition	Descriptions
Power	M+	Connect M+ to "Vdc +" & M- to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.
	M-	
Signal	Vin	Voltage input range: 5 ~ 20V
	Hall 1 output	High= Input - 1.2V (±0.6V) Low= GND Hall signal data: Actuator extends Actuator retracts Hall effect sensor resolution: 1.25 pulses/mm
	Hall 2 output	
	GND	

Ordering Key

DKL3 - 24 H6 - 553 . 1203 - 0 H 0 1

Input voltage	**24**: 24V DC
Motor and spindle type	**H6**: 3500rpm / 6mm pitch
Retracted length (Refer to Page 3)	**553**: 553mm
Extended length (Refer to Page 3)	**1203**: 1203mm
Reserved	**0**
Positioning feedback	**H**: Hall effect sensors x 2
Reserved	**0**
Cable length	**1**: 1200mm straight **2**: 2000mm straight

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