

## Actuator

### MD66



## Features

- ◆ MD66 is quiet and powerful actuator designed for use in home care and medical bed. The control boxes, MD6C and CB2P, which can be perfectly attached and integrated to MD66 are available for customers to choose.
- ◆ Main applications : homecare, medical
- ◆ Input voltage : 24V DC / 12V DC
- ◆ Max. load : 6000N (push) / 4000N (pull)
- ◆ Max. current : 2.8A @ 24V DC
- ◆ Max.speed at no load : 16.6mm/sec
- ◆ Max.speed at full load : 12.2mm/sec @ 6000N
- ◆ Stroke : 50~300mm
- ◆ Duty cycle : 10% or 2 min continuous operation in 20 min.
- ◆ IP protection level : IPX5
- ◆ Color : RAL7035 / Black
- ◆ Certified : IEC60601-1 / EN60601-1
- ◆ Noise level :  $\leq 50$ dB
- ◆ Preset limit switches
- ◆ Orientation of rear connector is available in every 30°

# Options

- ◆ Positioning signal feedback with Hall effect sensor X1
- ◆ Positioning signal feedback with Hall effect sensor X2
- ◆ Safety Nuts
- ◆ Push only

# Compatibility

## 1. Control box

Without positioning feedback	CB2P、CB4P、MD6C、MD7C、CBP2
Positioning signal feedback with Hall effect sensor x 1	CB4P-HP-SY
Positioning signal feedback with Hall effect sensor x 2	CB4P-SY-CG-BA

**MD6C & CB2P can be easily fixed onto MD60 actuator**



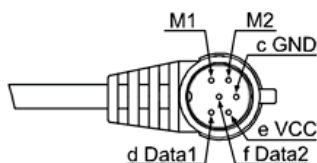
MD66+MD6C



MD66+CB2P

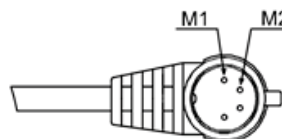
## Pin Assignment

1x or 2x Hall sensors for positioning



M1(+) & M2(-) : Extends  
Pin 'Data2' is defined for 2x Hall sensors only

No sensor feedback



M1(+) & M2(-) : Extends

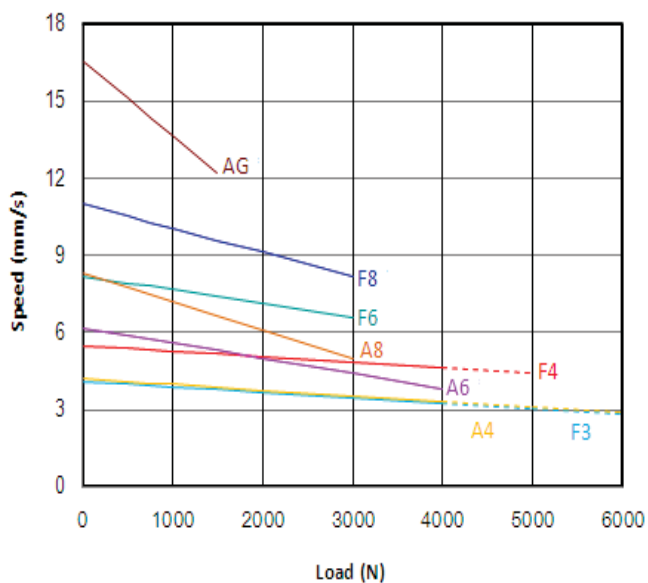
## 2. Accessory

None

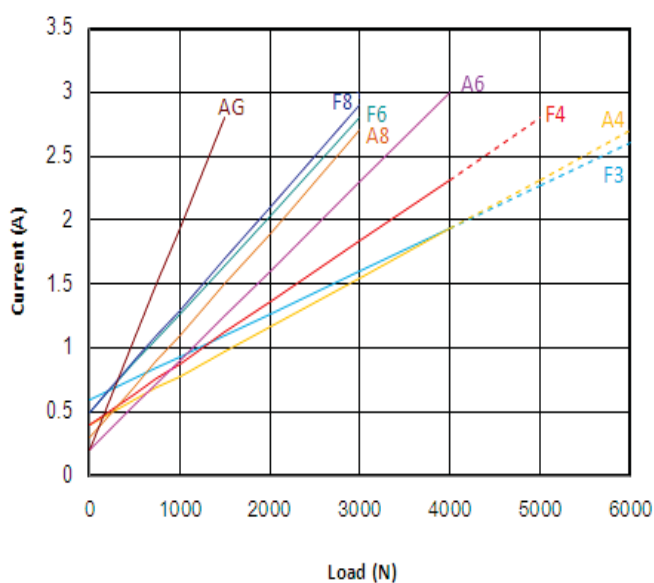
# Performance Data

Model No.	Push Max. (N)	Pull Max. (N)	Speed (mm/s)		Current (A)			
			No load	Full load	No load		Full load	
					12V	24V	12V	24V
MD66-XX-F3-XXX.XXX	6000	4000	4.1	2.8	1.2	0.6	5.2	2.6
MD66-XX-A4-XXX.XXX	6000	4000	4.2	2.9	0.8	0.4	5.4	2.7
MD66-XX-F4-XXX.XXX	5000	4000	5.5	4.4	0.8	0.4	5.6	2.8
MD66-XX-A6-XXX.XXX	4000	4000	6.2	3.8	0.4	0.2	5.0	3.0
MD66-XX-F6-XXX.XXX	3000	3000	8.2	6.6	1.0	0.5	5.6	2.8
MD66-XX-A8-XXX.XXX	3000	3000	8.3	5.0	0.6	0.3	5.4	2.7
MD66-XX-F8-XXX.XXX	3000	3000	11.0	8.2	1.0	0.5	5.8	2.9
MD66-XX-AG-XXX.XXX	1500	1500	16.6	12.2	0.4	0.2	5.6	2.8

Speed vs. Load

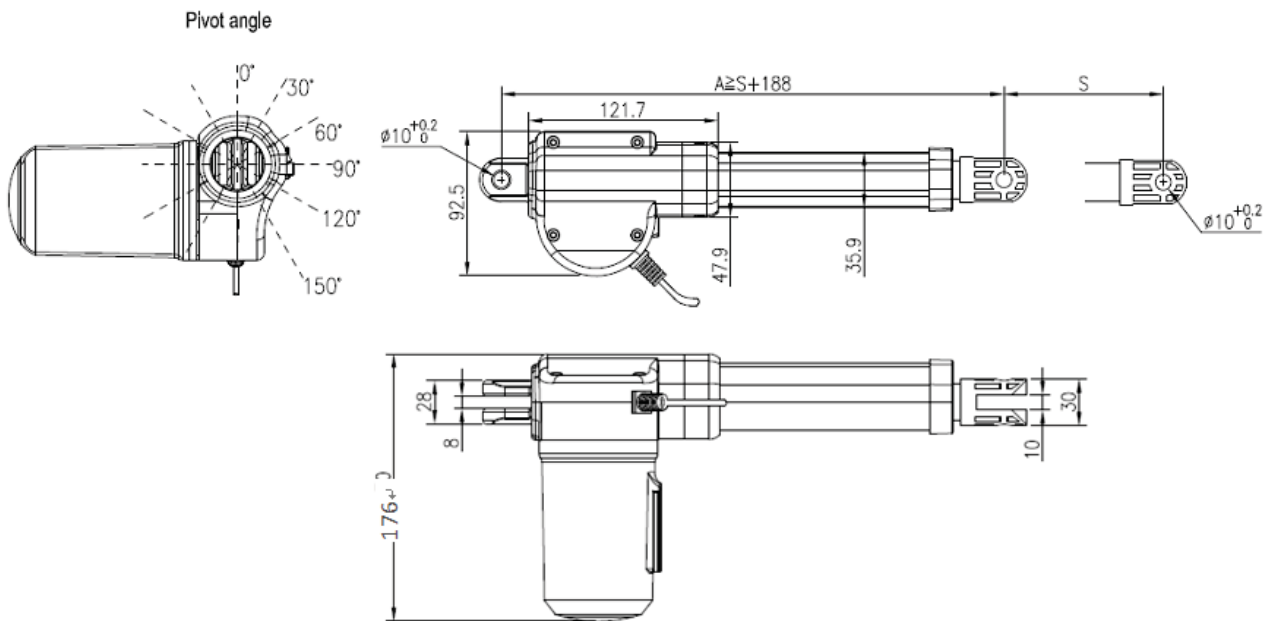


Current vs. Load

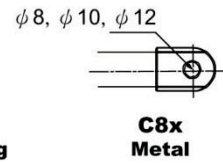
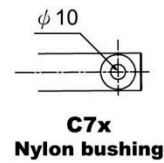
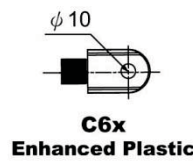
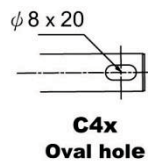
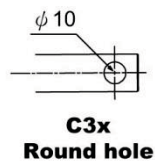
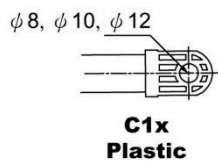


— Push / Pull Load  
 - - - - - Push Load

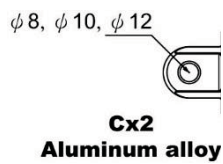
# Dimensions



## ◆ Front Connector



## ◆ Rear Connector



◆ Available stroke (S) range = 50~300mm

◆ Retracted length (A)

Front connector = C3x, C4x, C7x  $\geq$  stroke + 160mm

Front connector = C1x, C6x, C8x  $\geq$  stroke + 188mm

Safety Nut : additional 8mm is required

◆ Extended length (B) = S+A

# Ordering Key

MD66—□□—□□—□□□.□□□—C□□—□□□

## Input Voltage

12 : 12V DC  
24 : 24V DC

## Motor and Spindle Code

A4、A6、A8、AG、F3、F4、F6、F8  
(Refer to paragraph Performance Data)

## Retracted Length

(Refer to paragraph Dimensions)

## Extended Length

(=Retracted length + Stroke. Refer to paragraph Dimensions)

## Front Connector

1 : Plastic	3 : Round hole
4 : Oval hole	6 : Enhanced plastic
7 : Nylon bushing	8 : Metal

## Rear Connector

2 : Aluminum alloy

## Options

HS3 : Hall sensor x 1  
HS4 : Hall sensor x 2  
PO : Push only  
SN : Safety nut



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