Product Data Sheet



Actuator MD60



Features

- MD60 is a quiet and powerful actuator designed for use in a variety of medical and home care applications such as patient hoist and bed.
- Main applications : homecare, medical
- Input voltage : 24V DC
- Max. load : 6000N (push) / 4000N (pull)
- ◆ Max. current : 4.9 A@24V
- ◆ Max. speed at no load : 22.3 mm/sec
- Max. speed at full load : 5.0 mm/sec @ 6000N
- ♦ Stroke : 50 ~ 400mm
- Duty cycle : 10% or 2 min. continuous operation in 20 min.
- IP protection level : IPX4
- Color : RAL 7035
- Certified : EN60601-1-2 / IEC 61000-4-2 / IEC 61000-4-3 / IEC 61000-4-8
- ♦ Noise level : <53 dB</p>
- Ambient operating temperature : +5° ~ 40°C
- Preset limit switches
- Aluminum outer tubes
- Steel extension tube
- Rear connector's pivot direction can be chosen in every 30 degrees

Options

- Single / dual Hall effect sensor for positioning feedback
- Mechanical Push only
- Safety nut (additional 8 mm installation length is required)
- ◆ QR1 quick release : at gearbox, minimum 300N load required
- ◆ QR2 quick release : at Zinc front connector
- ◆ MR1 manual release : at Zinc front connector
- IPX5 protection level

Compatibility

1. Control box

MD6C, CB2P, CB4P (MD6C & CB2P can be easily fixed onto MD60 actuator)



MD60 & MD6C



MD60 & CB2P

2. Handset

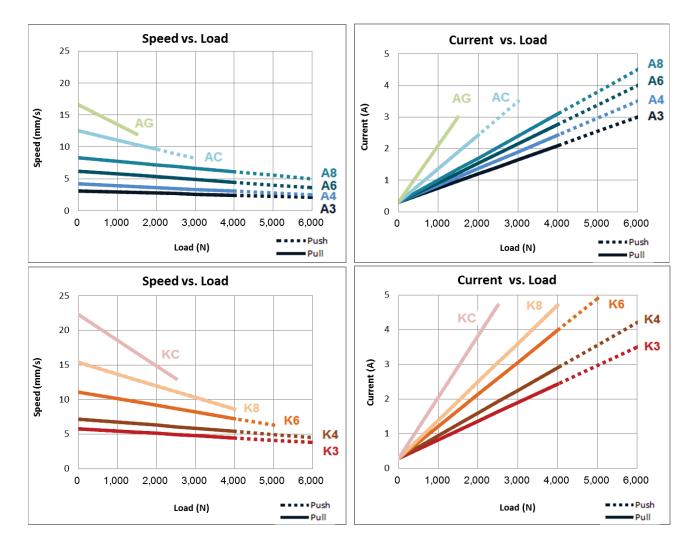
HC, HD, HF, HT

3. Accessory

None

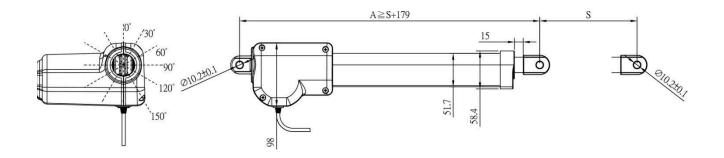
Performance Data

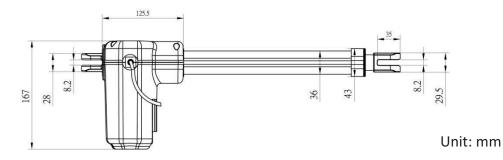
Model No.	Push Max.	Pull Max. (N)	Typical Speed (mm/s)		Current (A) @ 24V	
Model No.	(N)		No load	Full load	No load	Full load
MD60-24-A3-xxx.xxx-Cxx-xxxxxxx	6,000	4,000	3.1	2.1	0.3	3.0
MD60-24- A4 -xxx.xxx-Cxx-xxxxxxx	6,000	4,000	4.2	2.5	0.3	3.5
MD60-24-A6-xxx.xxx-Cxx-xxxxxxx	6,000	4,000	6.2	3.6	0.3	4.0
MD60-24- A8 -xxx.xxx-Cxx-xxxxxxx	6,000	4,000	8.3	5.0	0.3	4.5
MD60-24- AC -xxx.xxx-Cxx-xxxxxxx	3,000	2,000	12.5	8.2	0.3	3.5
MD60-24- AG -xxx.xxx-Cxx-xxxxxxx	1,500	1,500	16.6	12.0	0.3	3.0
MD60-24- K3 -xxx.xxx-Cxx-xxxxxxx	6,000	4,000	5.8	3.8	0.3	3.5
MD60-24- K4 -xxx.xxx-Cxx-xxxxxxx	6,000	4,000	7.2	4.5	0.3	4.2
MD60-24- K6 -xxx.xxx-Cxx-xxxxxxx	5,000	4,000	11.1	6.3	0.3	4.9
MD60-24- K8 -xxx.xxx-Cxx-xxxxxxx	4,000	4,000	15.4	8.6	0.3	4.7
MD60-24- KC -xxx.xxx-Cxx-xxxxxxx	2,500	2,500	22.3	13.0	0.3	4.7



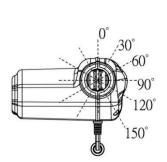
Dimensions

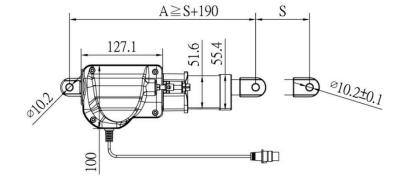
1. Standard

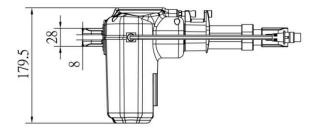




2. With QR1 Quick Release

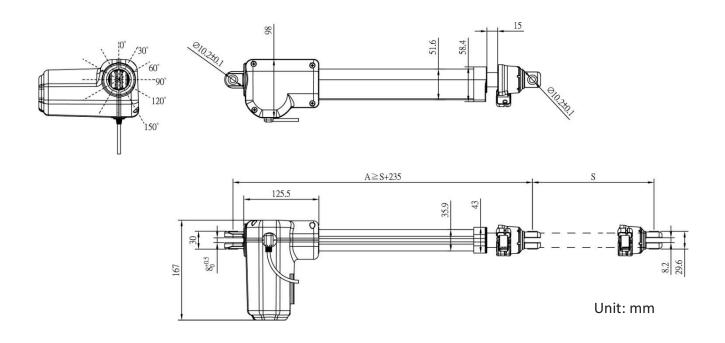




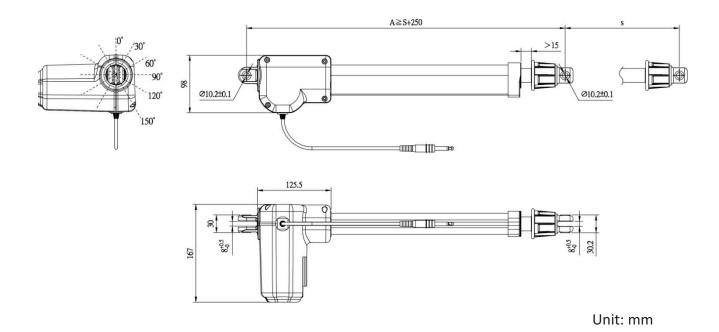


Unit: mm

3. With QR2 Quick Release



4. With MR1 Manual Release



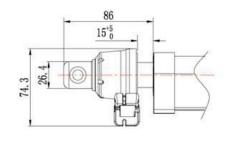
5. Installation Length

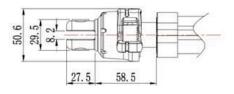
Front Connector	Standard retracted length	with QR1	Description
C3x,C7x	A ≧ S+154	A \geq S+165	
C1x,C5x,C8x	A ≧ S+179	A ≧ S+190	
CQx	A \geq S+235	N/A	with QR2 quick release
СМх	A ≧ S+250	N/A	with MR1 manual release
Remarks:			

1. A= Retracted Length (unit: mm)

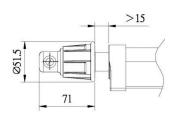
- 2. S= Stroke (unit: mm)
- 3. Additional 8 mm retracted length is required if Safety Nut is equipped.

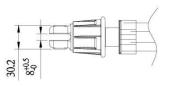
Front connector with QR2 (CQx)



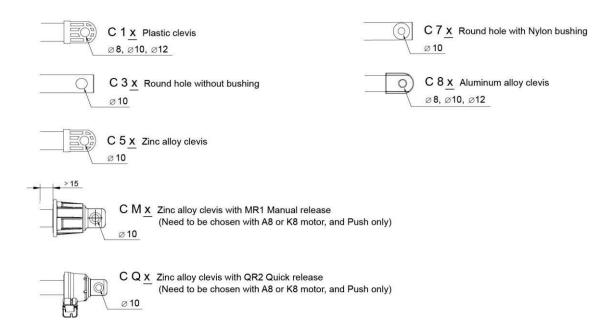


Front connector with MR1 (CMx)

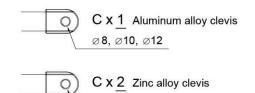




Front Connectors



Rear Connectors



Ø8, Ø10, Ø12

Cable Plug

DIN plug with Moteck V type or H type shape





V type

H type

Phone jack (Φ 6.35) with Moteck J1 type or J2 type shape



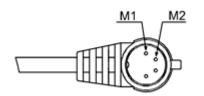


J1 type (Φ13.8)

J2 type (Φ16.7)

Pin Assignment

No sensor feedback



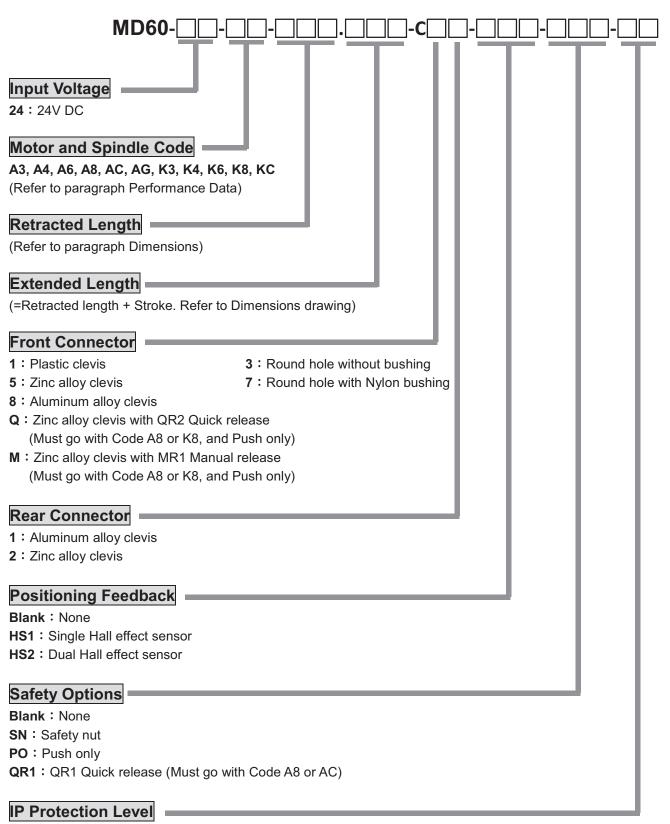
M1(+) & M2(-) : Extends

1x or 2x Hall sensors for positioning

M2 M1 c GND /CC f Data2 d Data1

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

Ordering Key



Blank : IPX4 X5 : IPX5



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