

Actuator MK67

MK67 is an economical actuator for medical applications with the advantages of short installation dimension and small size of the motor box. It can be equipped with dual Hall sensors to feedback positioning signals. Mainly used in applications such as home care and medical beds.



Features and Options

- Main applications: Medical, Home care
- Input voltage: 24V DC
- Max. load: 6000N (push) / 4000N (pull)
- Typical speed at full load: 2.6mm/sec (6000N load)
- Stroke: 50 ~ 300mm
- Noise level: ≦50dB
- IP level: IPX5
- Aluminum alloy outer tube
- Color: Light gray RAL 7035
- Duty cycle: 10%, max. 2 min. continuous operation in 20 min.
- Operating ambient temperature: +5°C ~ +40°C
- Storage ambient temperature: -25°C ~ +65°C
- Certified: CE Marking, EN 60601-1-2, BS EN 60601-1-2, IEC 60601-1-2
- Optional positioning signal feedback with dual Hall effect sensors
- Push only option
- Optional pivot orientation of rear connector 90°

Performance Data

Model No.	Push Pull Max. (N) Max. (N	Pull	*Braking ability (N)	**Typical Sp	beed (mm/s)	**Typical Current (A)			
		Max. (N)		No load	Full load	No load	Full load		
MK67-24- A4	6000	4000	6000	4.1	2.6	0.4	3.1		
MK67-24- A6	4000	3000	4000	6.1	4.1	0.4	2.9		
MK67-24- A8	3000	3000	3000	8.0	6.0	0.4	2.6		
MK67-24- AC	2000	2000	2000	12.1	9.1	0.4	2.4		





Push / Pull Load —



Remarks:

- * Equipped with mechanical brakes for thrust applications only.
- ** The typical speed and current are 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.

Inrush current



- When the actuator starts to operate, an inrush current of about 0.2 seconds will be generated. The starting inrush current of MK67 can reach about 3 times of the typical current under the actuator load.
- If a circuit board power supply is used, the specifications must be sufficient to handle the inrush current. If batteries are used as the power source, inrush current will not be a problem.
- MOTECK controllers are designed to take into account the inrush current when the actuator starts. If the user provides his or her own controller, this feature must be considered in the specifications and protection mechanisms. Besides, the connectors, switches and relays selected by users must also be able to withstand the starting currents.

Dimensions

• Retracted length (A):

Front connector	Retracted length(A)					
1	A <u>≧</u> S+170mm					
3, 7	A≧S+142mm					

- Available stroke (S) range = 50 \sim 300 mm
- Extended length (B) = Retracted length (A) + Stroke (S)



Unit: mm

• Front connector

1: Plastic





3: Drilled hole with bushing



15.5

7: Plastic bushing



Rear connector

1: Plastic



Front connector code	Diameter of pivot (D)
1	Ø8, Ø10, Ø12
3	Ø8, Ø10
7	Ø10
Rear connector code	Diameter of pivot (D)
1	Ø10

Pivot orientation of rear connectors



*Remarks: As an example in 0° orientation for rear connector.

Compatibility

Product	Model	MK67 spec				
Control box	CB4P	- Without positioning sensor feedback - With Moteck H-type 4-pin DIN plug				
	CM45	- Without positioning sensor feedback - With Moteck V-type or H-type 4-pin DIN plug				
	СВ5Р-М, СМ41-М	- With dual Hall effect sensors - With Moteck LR-type minifit 6-pin plug				

Cable Plug

• With Moteck H-type, V-type or LR-type plug:

- Without positioning sensor feedback



H-type or V-type 4-pin DIN plug



H-type

- With dual Hall effect sensors



LR-type minifit 6-pin plug



V-type

	MK67 - 2	4 - A4	- 220	270	- 1	1	0	н	Ρ	5	0
Input voltage	24: 24V DC										
Motor and Spindle type	A4: 2500rpm / 4mm pitch A6: 2500rpm / 6mm pitch A8: 2500rpm / 8mm pitch AC: 2500rpm / 12mm pitch							l			
Retracted length	XXX (Refer to Page 3)										
Extended length	XXX (Refer to Page 3)										
Front connector	 Plastic Drilled hole with bushing Plastic bushing 							l			
Rear connector	1: Plastic										
Pivot orientation of rear connector	0: 0° (standard) 9: 90°										
Positioning feedback	0: None H: dual Hall effect sensors										
Option	0: None P: Push only (PO)										
IP Level	5 : IPX5										
Cable length	 0: 300mm straight 3: 1000mm straight 6: 2000mm straight A: 450mm with 300mm coiled 	_	_								



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