

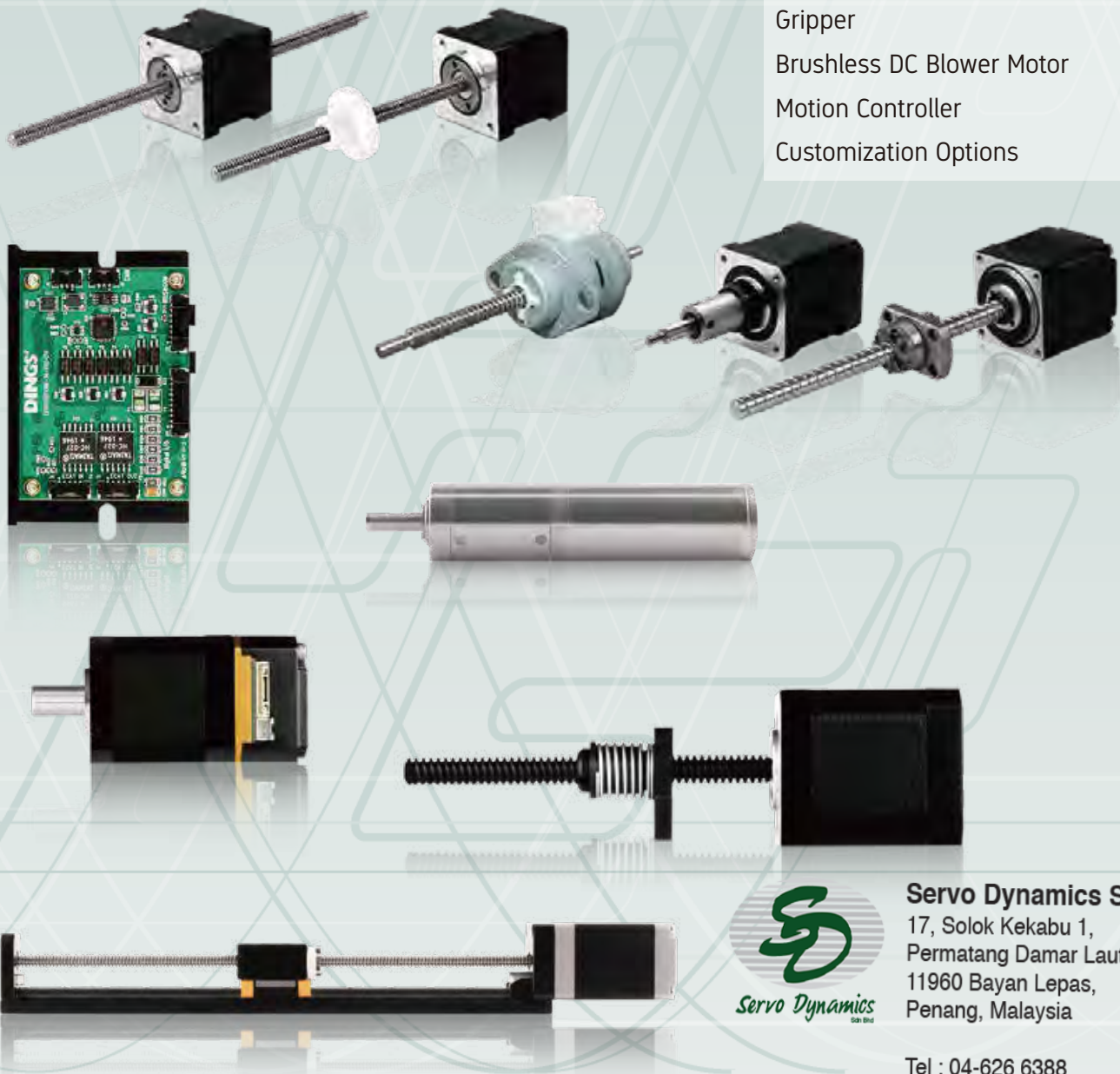
DINGS

Precision Motion Specialist

SIMPLE BROCHURE

PRODUCTS 2023

Stepper Lead Screw Linear Actuator
Stepper Ball Screw Linear Actuator
PM Stepper Linear Actuator
Voice Coil Motor
Hybrid Rotary Stepper Motor
Hollow Shaft Stepper Motor
Brushless DC Motor
Slotless Brushless DC Motor
DLM Series
Gripper
Brushless DC Blower Motor
Motion Controller
Customization Options



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Since it's establishment in 2008,

Jiangsu DINGS' Intelligent Control Technology Co., Ltd adheres to the "Quality comes from Responsibility, Details determine Success or Failure" business concept, commits to become a Precision Motion Specialist and world-class motion control solutions provider.

DINGS' provides precision stepper motor actuators, brushless DC motors and motion controllers.

Size

DINGS' covers 18,500m² and fully in-housing with wire rolling machine, automatic injection molding machine, CNC machine, machining center, automatic straightening machine and cutting machine.



Qualifications

DINGS' is a high-tech company listed on the new third board, NEEQ stock market in June, 2021. And listed on the Beijing Stock Exchange 13th Apr, 2023.

DINGS has awards of "Jiangsu Private Science and Technology Enterprise", "Jiangsu Science and Technology Small and Medium-sized Enterprise" and "Jiangsu Specialized and New Small Giant Enterprise".

In addition, DINGS' products have RoHS, CE, REACH and other certifications as ISO9001 and ISO14001. DINGS' has more than 80 invention patents.



Growth

2008 Established a company and registered DINGS' Brand

2010 Established DINGS' MOTION USA

2016 Established DINGS' Korea

2019 Join in LEILI group

2021 Company moved to Jiangsu Railway Industrial Park
Established Changzhou Intelligent Manufacturing Factory
Listed on the new third board, NEEQ stock market

2022 Application of Jiangsu Engineering Technology Research Center
Application of Changzhou Enterprise Technology Center
Set up R&D Center in Korea

2023 Application for National Specialized New Small Giant
Establishment of DINGS' Europe
Listed on the Beijing Stock Exchange [Stock Code : 873593]

2024 Relocation of Headquarter into new plant



Product Warranty Statement

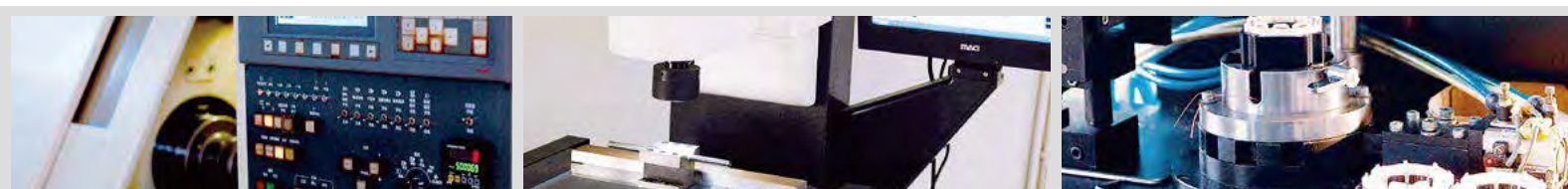
DINGS' provides product quality certificates during shipping, and customers are to inspect product according to technical drawings and/or related requirements.

DINGS's product warranty period is 2 years, calculated from delivery date, and customers are to refer to the product manual for proper storage and usage of the product.

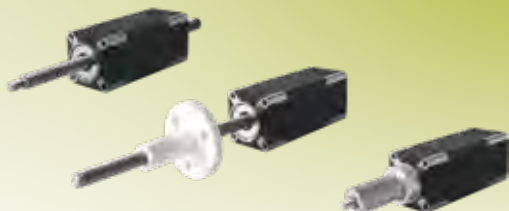
During the service life or warranty period, if our products are damaged or do not work properly due to quality problems, DINGS' provides no-charge repairs.

The following conditions do not belong to the scope of free maintenance :

1. When the validity period has been exceeded
(In the case of loss of nameplate or artificial damage, it is considered to have exceeded the validity period)
2. Damage caused by improper usage
3. Man-made dismantling
4. Products that have been disassembled or repaired, but not by a DINGS' accredited representative
5. Failure caused by irresistible factors such as natural disasters



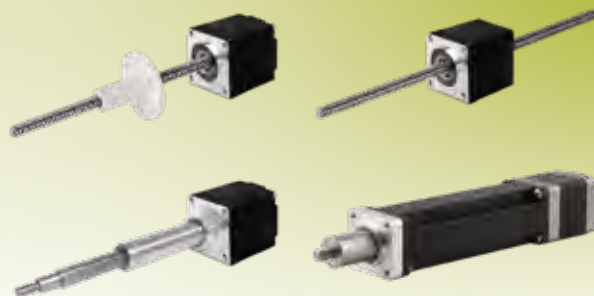
NEMA Size 6 [14mm]



14mm Stepper lead screw linear actuator

External / Non-Captive / Kaptive Type
 Max. 15N Thrust force
 Max. 4096CPR Encoder option
 Teflon coating option
 Screw end machining option

NEMA Size 8 [20mm]



20mm Stepper lead screw linear actuator

External / Non-Captive / Kaptive / Captive Type
 Max. 45N Thrust force
 Max. 2048CPR Encoder option
 Teflon coating option
 Anti-backlash nut option
 Screw end machining option

NEMA Size 11 [28mm]



28mm Stepper lead screw linear actuator

External / Non-Captive / Kaptive / Captive Type
 Max. 140N Thrust force
 Max. 2048CPR Encoder option
 Teflon coating option
 Anti-backlash nut option
 Screw end machining option
 Power-off brake option

NEMA Size 14 [35mm]

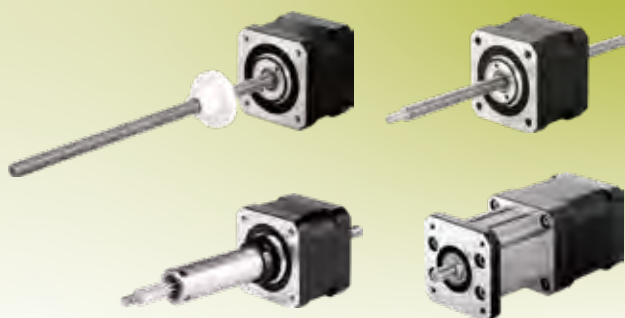


35mm Stepper lead screw linear actuator

External / Non-Captive / Kaptive / Captive Type
 Max. 230N Thrust force
 Max. 5000CPR Encoder option
 Teflon coating option
 Anti-backlash nut option
 Screw end machining option
 Power-off brake option

Stepper Lead Screw Linear Actuator

NEMA Size 17 [42mm]



42mm Stepper lead screw linear actuator

External / Non-Captive / Kaptive / Captive Type
Max. 330N Thrust force
Max. 5000CPR Encoder option
Teflon coating option
Anti-backlash nut option
Screw end machining option
Power-off brake option

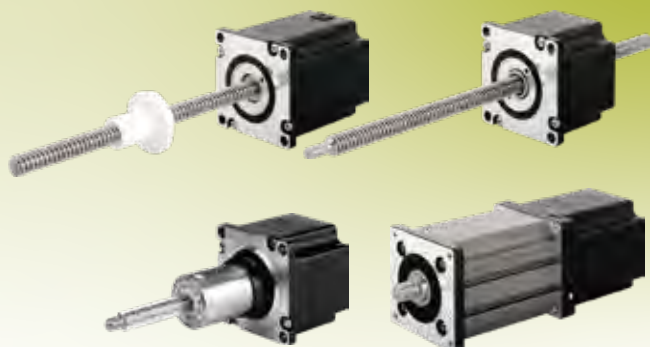
NEMA Size 23 [57mm]



57mm Stepper lead screw linear actuator

External / Non-Captive / Kaptive / Captive Type
Max. 910N Thrust force
Max. 10000CPR Encoder option
Teflon coating option
Anti-backlash nut option
Screw end machining option
Power off brake option

NEMA Size 24 [60mm]



60mm Stepper lead screw linear actuator

External / Non-Captive / Kaptive / Captive Type
Max. 910N Thrust force
Max. 10000CPR Encoder option
Teflon coating option
Screw end machining option
Power-off brake option

NEMA Size 34 [86mm]



86mm Stepper lead screw linear actuator

External / Non-Captive Type
Max. 2270N Thrust force
Max. 10000CPR Encoder option
Teflon coating option
Screw end machining option
Power-off brake option

NEMA Size 6 [14mm]



14mm Stepper ball screw linear actuator

C7 Standard [C5 / C3 option]
External Type
Max. 12N Thrust force
Max. 4096CPR Encoder option
Screw end machining option

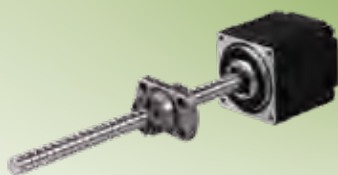
NEMA Size 8 [20mm]



20mm Stepper ball screw linear actuator

C7 Standard [C5 / C3 option]
External Type
Max. 25N Thrust force
Max. 2048CPR Encoder option
Screw end machining option

NEMA Size 11 [28mm]



28mm Stepper ball screw linear actuator

C7 Standard [C5 / C3 option]
External Type
Max. 180N Thrust force
Max. 2048CPR Encoder option
Screw end machining option
Power-off brake option

NEMA Size 14 [35mm]

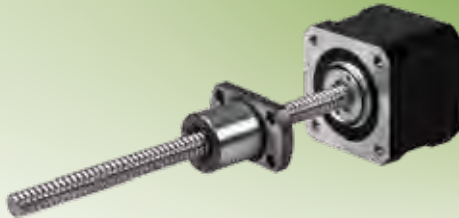


35mm Stepper ball screw linear actuator

C7 Standard [C5 / C3 option]
External Type
Max. 400N Thrust force
Max. 5000CPR Encoder option
Screw end machining option
Power-off brake option

Stepper Ball Screw Linear Actuator

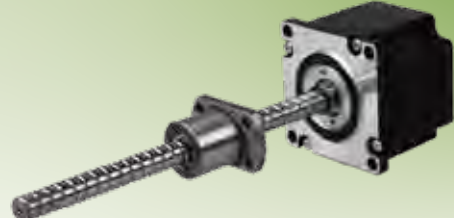
NEMA Size 17 [42mm]



42mm Stepper ball screw linear actuator

C7 Standard [C5 / C3 option]
External Type
Max. 700N Thrust force
Max. 5000CPR Encoder option
Screw end machining option
Power-off brake option

NEMA Size 23 [57mm]



57mm Stepper ball screw linear actuator

C7 Standard [C5 / C3 option]
External Type
Max. 1700N Thrust force
Max. 10000CPR Encoder option
Screw end machining option
Power-off brake option

NEMA Size 11 [28mm] DLG



28mm Stepper ball screw electric slide actuator

C7 Standard
Linear guide [DLG]
Non-linear guide [DLS]
30mm Stroke
Max. 180N Thrust force
Max. 2048CPR Encoder option
Power-off brake option

NEMA Size 17 [42mm] DLG



42mm Stepper ball screw electric slide actuator

C7 Standard
Linear guide [DLG]
Non-linear guide [DLS]
40mm / 70mm Stroke
Max. 700N Thrust force
Max. 5000CPR Encoder option
Power-off brake option

PM Stepper Linear Actuator

Size 20mm



20mm PM stepper linear actuator

External / Non-Captive / Kaptive Type
Max. 35N Thrust force
Teflon coating option
Screw end machining option
Hall sensor & magnet feedback option
Incremental encoder option

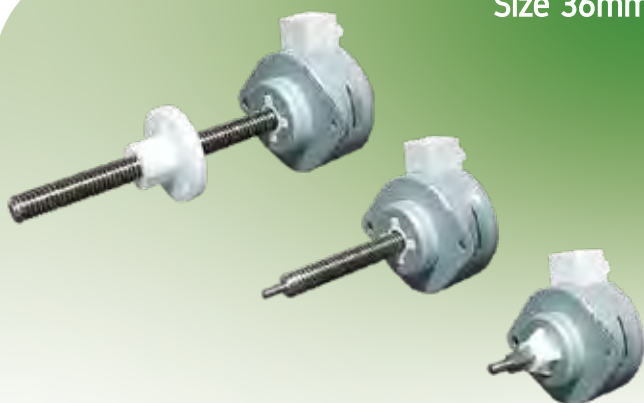
Size 25mm



25mm PM stepper linear actuator

External / Non-Captive / Kaptive Type
Max. 65N Thrust force
Teflon coating option
Screw end machining option
Hall sensor & magnet feedback option
Incremental encoder option

Size 36mm



36mm PM stepper linear actuator

External / Non-Captive / Kaptive Type
Max. 115N Thrust force
Teflon coating option
Screw end machining option
Hall sensor & magnet feedback option
Incremental encoder option

Voice Coil Motor

Φ25.4 Voice Coil Motor



25.4mm Voice coil motor

Stroke customization option
Linear encoder option
Standard stroke 9.5mm
Continuous force 11N (9.5mm stroke)
Peak thrust force 31N (9.5mm Stroke)

Φ30 Voice Coil Motor



30mm Voice coil motor

Stroke customization option
Linear encoder option
Standard stroke 13/15mm
Continuous force 4.63N (13/15mm stroke)
Peak thrust force 29.4N (13/15mm Stroke)

Φ38 Voice Coil Motor



38mm Voice coil motor

Stroke customization option
Linear encoder option
Standard stroke 7.7mm
Continuous force 5N (7.7mm stroke)
Peak thrust force 22.5N (7.7mm Stroke)

NEMA Size 6 [14mm]



14mm Hybrid rotary stepper motor

Max. 0.005N·m Holding torque
Max. 0.3A Current
Max. 4096CPR Encoder option
Shaft customization option

NEMA Size 8 [20mm]



20mm Hybrid rotary stepper motor

Max. 0.02N·m Holding torque
Max. 0.5A Current
Max. 2048CPR Encoder option
Max. 107:1 Planetary gearbox option
Shaft customization option

NEMA Size 11 [28mm]



28mm Hybrid rotary stepper motor

Max. 0.14N·m Holding torque
Max. 1.0A Current
Max. 2048CPR Encoder option
Max. 72:1 Planetary gearbox option
Shaft customization option
Power-off brake option

NEMA Size 14 [35mm]



35mm Hybrid rotary stepper motor

Max. 0.4N·m Holding torque
Max. 1.5A Current
Max. 5000CPR Encoder option
Max. 72:1 Planetary gearbox option
Shaft customization option
Power-off brake option

Hybrid Rotary Stepper Motor

NEMA Size 17 [42mm]



42mm Hybrid rotary stepper motor

- Max. 0.72N·m Holding torque
- Max. 2.0A Current
- Max. 5000CPR Encoder option
- Max. 99.5:1 Planetary gearbox option
- Shaft customization option
- Power-off brake option

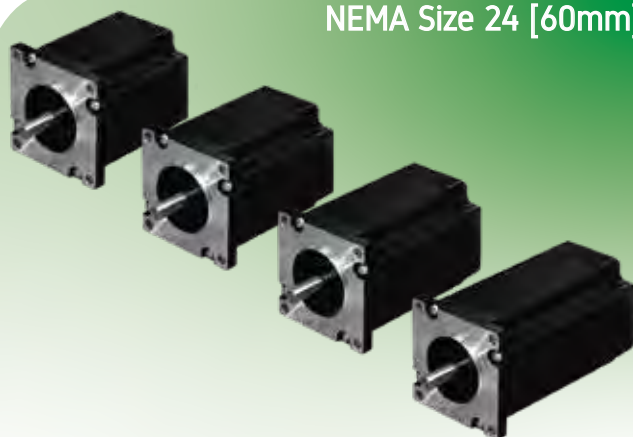
NEMA Size 23 [57mm]



57mm Hybrid rotary stepper motor

- Max. 2.0N·m Holding torque
- Max. 4.0A Current
- Max. 10000CPR Encoder option
- Max. 25:1 Planetary gearbox option
- Shaft customization option
- Power-off brake option

NEMA Size 24 [60mm]



60mm Hybrid rotary stepper motor

- Max. 3.0N·m Holding torque
- Max. 5.0A Current
- Max. 10000CPR Encoder option
- Max. 25:1 Planetary gearbox option
- Shaft customization option
- Power-off brake option

NEMA Size 34 [86mm]



86mm Hybrid rotary stepper motor

- Max. 7.0N·m Holding torque
- Max. 6.0A Current
- Max. 10000CPR Encoder option
- Shaft customization option
- Power-off brake option

NEMA Size 6 [14mm]



14mm Hollow shaft stepper motor

Max. 0.005N·m Holding torque

Max. 0.3A Current

OD : 4mm / ID : 2mm

Shaft customization option

NEMA Size 8 [20mm]



20mm Hollow shaft stepper motor

Max. 0.02N·m Holding torque

Max. 0.5A Current

OD : 5mm / ID : 3mm

(Max. OD : 6mm / ID : 4mm Customization Available)

Max. 2048CPR Encoder option

Shaft customization option

NEMA Size 11 [28mm]



28mm Hollow shaft stepper motor

Max. 0.1N·m Holding torque

Max. 1.0A Current

OD : 7mm / ID : 5mm

(Max. OD : 8mm / ID : 6mm Customization Available)

Max. 5000CPR Encoder option

Shaft customization option

NEMA Size 14 [35mm]



35mm Hollow shaft stepper motor

Max. 0.36N·m Holding torque

Max. 1.0A Current

OD : 10mm / ID : 8mm

Max. 5000CPR Encoder option

Shaft customization option

Hollow Shaft Stepper Motor

NEMA Size 17 [42mm]



42mm Hollow shaft stepper motor

Max. 0.48N·m Holding torque
Max. 2.5A Current
OD : 10mm / ID : 8mm
(Max. OD : 12mm / ID : 10mm Customization Available)
Max. 5000CPR Encoder option
Shaft customization option

NEMA Size 23 [57mm]



57mm Hollow shaft stepper motor

Max. 1.6N·m Holding torque
Max. 2.5A Current
OD : 15mm / ID : 12mm
(Max. OD : 16mm / ID : 14mm Customization Available)
Max. 10000CPR Encoder option
Shaft customization option

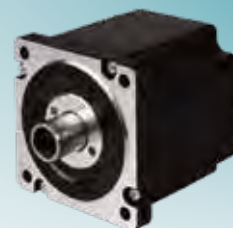
NEMA Size 24 [60mm]



60mm Hollow shaft stepper motor

Max. 1.9N·m Holding torque
Max. 4.0A Current
OD : 15mm / ID : 12mm
(Max. OD : 16mm / ID : 14mm Customization Available)
Max. 10000CPR Encoder option
Shaft customization option

NEMA Size 34 [86mm]



86mm Hollow shaft stepper motor

Max. 4.5N·m Holding torque
Max. 3.0A Current
OD : 20mm / ID : 16mm
Max. 10000CPR Encoder option
Shaft customization option

16mm BLDC



16mm Brushless DC motor

- 2 pole pairs
- 24 VDC
- Max. 9.2W
- Max. 12600RPM Rated speed
- Max. 16300RPM No load speed
- Hall sensor
- Incremental encoder option
- Planetary gearbox option

22mm BLDC



22mm Brushless DC motor

- 2 pole pairs
- 24 VDC
- Max. 19.9W
- Max. 10000RPM Rated speed
- Max. 12000RPM No load speed
- Hall sensor
- Incremental encoder option
- Planetary gearbox option

28mm BLDC



28mm Brushless DC motor

- 2 pole pairs
- 24 VDC
- Max. 52.4W
- Max. 10000RPM Rated speed
- Max. 12000RPM No load speed
- Hall sensor
- Incremental encoder option
- Planetary gearbox option

36mm BLDC

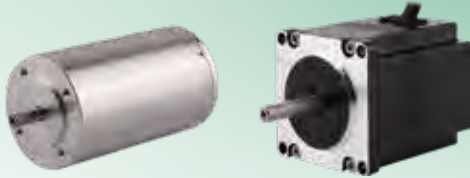


36mm Brushless DC motor

- 2 pole pairs
- 48 VDC
- Max. 130.9W
- Max. 10000RPM Rated speed
- Max. 12000RPM No load speed
- Hall sensor
- Incremental encoder option
- Planetary gearbox option

Brushless DC Motor

42mm BLDC



42mm Brushless DC motor

2 pole pairs (Circular type) / 5 pole pairs (Square type)
24 ~ 48 VDC (For square type, 24V only)
Max. 209.4W
Max. 10000RPM Rated speed
Max. 12000RPM No load speed
Hall sensor
Incremental encoder option
Planetary gearbox option
Power-off brake option (Square type)

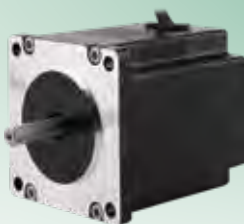
57mm BLDC



57mm Brushless DC motor

5 pole pairs
24 VDC
Max. 103.7W
Max. 3000RPM Rated speed
Max. 4000RPM No load speed
Hall sensor
Incremental encoder option
Planetary gearbox option
Power-off brake option

60mm BLDC



60mm Brushless DC motor

5 pole pairs
24 VDC
Max. 144.5W
Max. 3000RPM Rated speed
Max. 3500RPM No load speed
Hall sensor
Incremental encoder option
Planetary gearbox option
Power-off brake option

86mm BLDC



86mm Brushless DC motor

5 pole pairs
48 VDC
Max. 471.2W
Max. 3000RPM Rated speed
Max. 3600RPM No load speed
Hall sensor
Incremental encoder option
Planetary gearbox option
Power-off brake option

Φ16 Slotless BLDC



16mm Slotless BLDC motor

40mm Motor length
18 ~ 48 VDC
1 pole pairs
Max. 39W
Max. 50000RPM Rated speed
Max. 58000RPM No load speed
Hall sensor
Incremental encoder option
Planetary gearbox option

Φ22 Slotless BLDC



22mm Slotless BLDC motor

48mm Motor length
18 ~ 48 VDC
1, 2 pole pairs
Max. 100W
Max. 49600RPM Rated speed
Max. 55000RPM No load speed
Hall sensor
Incremental encoder option
Planetary gearbox option

Φ28 Slotless BLDC



28mm Slotless BLDC motor

52mm Motor length
12 ~ 48 VDC
1, 2 pole pairs
Max. 37W
Max. 8430RPM Rated speed
Max. 9680RPM No load speed
Hall sensor
Incremental encoder option
Planetary gearbox option

Φ30 Slotless BLDC



30mm Slotless BLDC motor

65mm Motor length
24 VDC
2 pole pairs
Max. 65W
Max. 6900RPM Rated speed
Max. 9200RPM No load speed
Hall sensor
Incremental encoder option
Planetary gearbox option

Slotless Brushless DC Motor

Φ36 Slotless BLDC



36mm Slotless BLDC motor

60mm Motor length
18 ~ 48 VDC
1, 2 pole pairs
Max. 85W
Max. 11700RPM Rated speed
Max. 13000RPM No load speed
Hall sensor
Incremental encoder option
Planetary gearbox option

Φ42 Slotless BLDC



42mm Slotless BLDC motor

80mm Motor length
18 ~ 48 VDC
1, 2 pole pairs
Max. 160W
Max. 12200RPM Rated speed
Max. 13800RPM No load speed
Hall sensor
Incremental encoder option
Planetary gearbox option

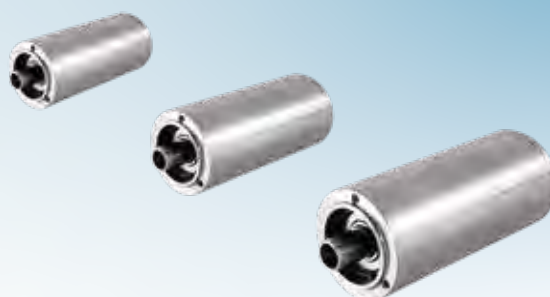
Φ22/28/36 Slotless BLDC Linear Actuator



22/28/36mm Slotless BLDC Linear actuator

32 ~ 52mm Motor length - External / Captive type
Lead screw integrated External / Captive linear actuator
24 VDC
1 pole pairs
Max. 5000RPM Rated speed (Φ22 - captive type)
Max. 7000RPM Rated speed (Φ22 - external type)
Max. 8430RPM Rated speed (Φ28 - external type)
Max. 9340RPM Rated speed (Φ36 - external type)
Hall sensor
Incremental encoder option

Φ22/28/36 Hollow Shaft Slotless BLDC



22/28/36mm Hollow shaft slotless BLDC

48 ~ 52mm Motor length
24 VDC
1 pole pairs
Max. 7000RPM Rated speed (Φ22)
Max. 8430RPM Rated speed (Φ28)
Max. 9340RPM Rated speed (Φ36)
Hall sensor

Precision Planetary Gearbox / DLM Series

Precision Planetary Gearbox



Slotless BLDC Planetary Gearbox

16 / 22 / 28 / 30 / 36 / 42mm Gearbox Options

Max. 90% Efficiency

Min. Continuous Torque 0.2N·m

Max. Continuous Torque 25N·m

Min. Gear Ratio 3.947:1

Max. Gear Ratio 1526:1

0.4° ~ 1.0° Backlash

NEMA Size 6 [14mm]



14mm Stepper lead screw linear module

Min. 20mm stroke

Max. 100mm stroke

7 different kinds of lead screw selection

Max. 15N Thrust force

Incremental encoder solution

Ball screw option available

NEMA Size 8 [20mm]



20mm Stepper lead screw linear module

Min. 20mm stroke

Max. 150mm stroke

7 different kinds of lead screw selection

Max. 45N Thrust force

Incremental encoder solution

Ball screw option available

DLM Series

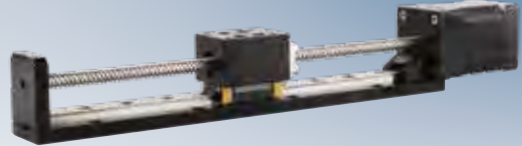
NEMA Size 11 [28mm]



28mm Stepper lead screw linear module

- Min. 20mm stroke
- Max. 250mm stroke
- 6 different kinds of lead screw selection
- Max. 140N Thrust force
- Incremental encoder solution
- Power-off brake solution
- Ball screw option available

NEMA Size 14 [35mm]



35mm Stepper lead screw linear module

- Min. 50mm stroke
- Max. 400mm stroke
- 18 different kinds of lead screw selection
- Max. 230N Thrust force
- Incremental encoder solution
- Power-off brake solution
- Ball screw option available

NEMA Size 17 [42mm]



42mm Stepper lead screw linear module

- Min. 50mm stroke
- Max. 500mm stroke
- 18 different kinds of lead screw selection
- Max. 230N Thrust force
- Incremental encoder solution
- Power-off brake solution
- Ball screw option available

NEMA Size 23 [57mm]



57mm Stepper lead screw linear module

- Min. 50mm stroke
- Max. 600mm stroke
- 15 different kinds of lead screw selection
- Max. 910N Thrust force
- Incremental encoder solution
- Power-off brake solution
- Ball screw option available

NEMA Size 8 [20mm]



20mm Gripper

6mm Gripping stroke
7 different kinds of lead screw selection
Max. Gripping force : 70N
Recommended gripping force : 35N
Incremental encoder option for Force control
DS-CLS9-FRS4-01 Force control driver

NEMA Size 11 [28mm]



28mm Gripper

6/12mm Gripping stroke
6 different kinds of lead screw selection
Max. Gripping force : 150N
Recommended gripping force : 70N
Incremental encoder option for Force control
Absolute encoder option
DS-CLS9-FRS4-01 Force control driver

NEMA Size 14 [35mm]



35mm 3-Finger Gripper

3-Finger Grippers are available for 35mm
15 different kinds of lead screw selection
Incremental encoder option for Force control
Absolute encoder option
DS-CLS9-FRS4-01 Force control driver

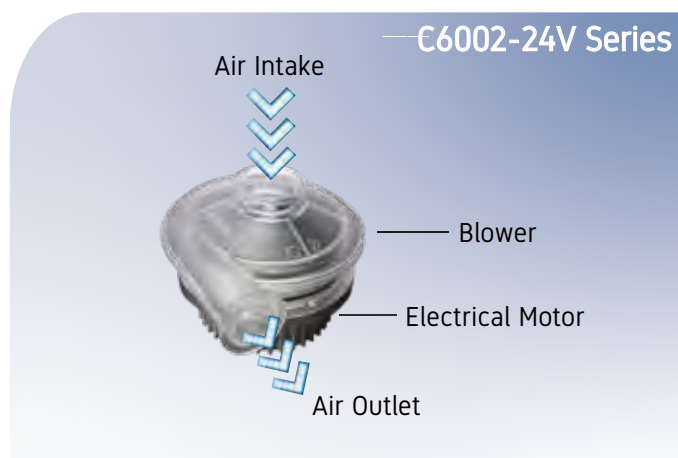
NEMA Size 17 [42mm]



42mm 3-Finger Gripper

3-Finger Grippers are available for 42mm
15 different kinds of lead screw selection
Incremental encoder option for Force control
Absolute encoder option
DS-CLS9-FRS4-01 Force control driver

Brushless DC Blower Motor



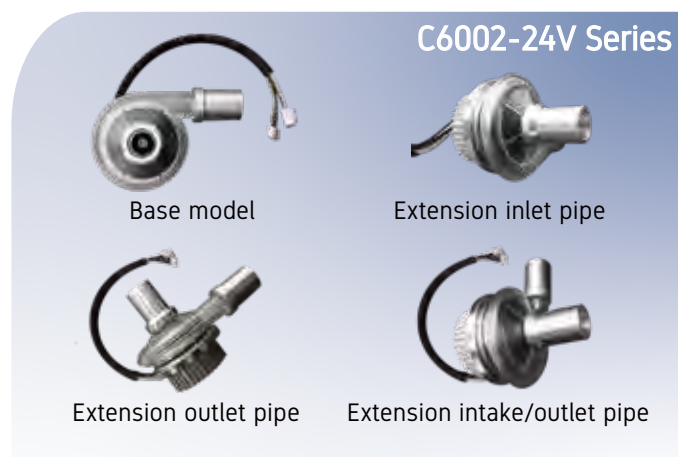
C6002-24V series

Max. Flow rate : 420LPM
Rated flow rate : 184LPM
Max. Flow speed : 48.9m/s
Max. Static pressure : 6.5kPa
Rated static pressure : 5.1kPa
Inlet dimension : ID 16mm
Outlet dimension : ID 13.5mm



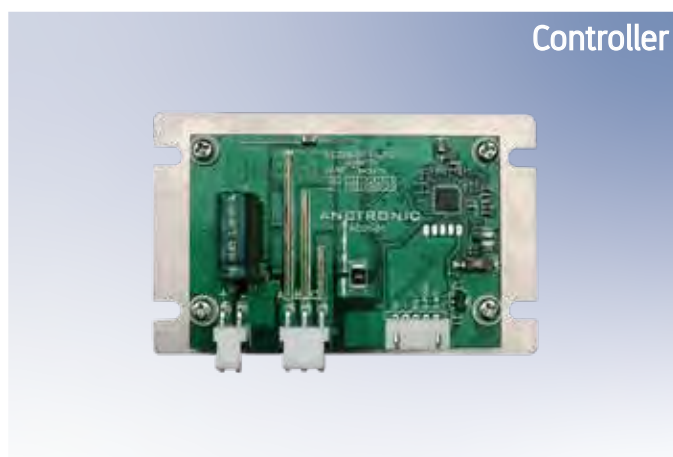
C6002-24V series

Automation equipment application
Blower / Ventilator to remove dust or smoke
Medical equipment application
Ventilator / Aspirator / Sterilization / Cleaner
Automotive application
Air conditioning / Cooling engine / Tire inflation



C6002-24V series

Commercial & household application
Air fresh / Refrigerator / Cleaner / Sweeper
Garden machinery application
Leaf & snow blower / Cleaning
Agricultural & Fishery application
Transplanter / Fruit sorter / Oxygen generator



Controller

Rated voltage : 24V [14 ~ 28V]
Max. continuous current : 10A
Max. peak current : 20A
Peak power : 240W
Half-Commutation
200Hz PWM frequency (10 ~ 90% adjustment)

DS-OLS2-FPD



DS-OLS2-FPD

- 18 ~ 36 VDC
- 0.3 ~ 2.2A Dip switch current setting
- Dip switch microstep resolution setting
- 1 Pulse Step & Direction
- 2 Pulse CW/CCW
- 3 Differential inputs
- 1 Differential output

DS-OLS22-FPD



DS-OLS22-FPD

- 12 ~ 48 VDC
- 0.3 ~ 3.0A Dip switch current setting
- Dip switch microstep resolution setting
- 1 Pulse Step & Direction
- 2 Pulse CW/CCW
- 3 Differential inputs

DS-OLS4-FPD



DS-OLS4-FPD

- 20 ~ 50 VDC
- 1.0 ~ 4.2A Dip switch current setting
- Dip switch microstep resolution setting
- 1 Pulse Step & Direction
- 2 Pulse CW/CCW
- 3 Differential inputs
- 2 Digital outputs

DS-OLS8-FPD

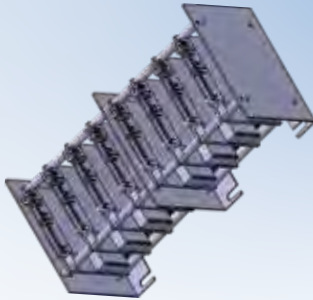


DS-OLS8-FPD

- 24 ~ 72 VDC
- 2.8 ~ 7.8A Dip switch current setting
- Dip switch microstep resolution setting
- 1 Pulse Step & Direction
- 2 Pulse CW/CCW
- 3 Differential inputs
- 1 Digital output

Motion Controller

DS-OLC8-FPD



DS-OLC8-FPD

18 ~ 36 VDC
0.3 ~ 2.2A Dip switch current setting
Dip switch microstep resolution setting
1 Pulse Step & Direction
2 Pulse CW/CCW
3 Differential inputs (per Axis)
1 Differential output (per Axis)

DS-OLS7-FRS4



DS-OLS7-FRS4

24 ~ 48 VDC
0.1 ~ 3.2A
Pulse (1/2 pulse) or RS485 ModBus RTU
2 Differential inputs
1 Digital output
Max. 30 Axes connection control
Max. 102,400 microstep resolution

DS-OLS8-FRS4



DS-OLS8-FRS4

24 ~ 72 VDC
0.1 ~ 6.5A
Pulse (1/2 pulse) or RS485 ModBus RTU
2 Differential inputs
1 Digital output
Max. 30 Axes connection control
Max. 102,400 microstep resolution

DS-OLS10-FSC



DS-OLS10-FSC

24 ~ 48 VDC
1.0 ~ 4.5A Dip switch current setting
Analog input stepper driver (0~10VDC)
Dip switch velocity setting
3 Digital inputs

DS-CLS9-FRS4



DS-CLS9-FRS4

24 ~ 48 VDC
 0 ~ 4.5A
 Pulse (1/2 pulse) or RS485 ModBus RTU
 2 Differential inputs
 5 Digital inputs
 2 Digital outputs
 3 Encoder signal outputs (Differential)
 Max. 30 Axes connection control

DS-CLS9-FRS4-01



DS-CLS9-FRS4-01

24 ~ 48 VDC
 0 ~ 4.5A
 Pulse (1/2 pulse) or RS485 ModBus RTU
 2 Differential inputs
 5 Digital inputs
 2 Digital outputs
 3 Encoder signal outputs (Differential)
 Max. 30 Axes connection control
 Force control function

DS-CLS9-FETC



DS-CLS9-FETC

24 ~ 48 VDC
 6.5A
 EtherCAT
 2 Differential inputs
 5 Digital inputs
 3 Digital outputs
 Support PP, PV, HM, CSP, CVS

DS-CLS9-FCAO



DS-CLS9-FCAO

24 ~ 48 VDC
 6.5A
 CANOpen
 2 Differential inputs
 5 Digital inputs
 3 Digital outputs
 Support PP, PV, HM, PT

Motion Controller

DS-CLS9-FETC-2I



DS-CLS9-FETC-2I

- 24 ~ 48 VDC
- 6.5A
- EtherCAT
- Support 2 motors with Incremental encoder
- Support brake
- 2 Differential inputs
- 5 Digital inputs
- 3 Digital outputs
- Support PP, PV, HM, CSP, CVS

DS-CLS9-FETC-2A



DS-CLS9-FETC-2A

- 24 ~ 48 VDC
- 6.5A
- EtherCAT
- Support 2 motors with Absolute encoder
- Support brake
- 2 Differential inputs
- 5 Digital inputs
- 3 Digital outputs
- Support PP, PV, HM, CSP, CVS

DS-CLS10-FRS4



DS-CLS10-FRS4

- 24 ~ 72 VDC
- 6.5A
- Pulse (1/2 pulse) or RS485 ModBus RTU
- 7 Digital inputs
- 3 Digital outputs
- Max. 30 Axes connection control

DS-CL28/42-SA



DS-CL28/42-SA

- 24 VDC
- 1.0A (28mm) / 0.5 ~ 2.0A (42mm)
- RS485 ModBus RTU
- 4 Digital inputs (DS-CL28-SA)
- 7 Digital inputs (DS-CL42-SA)
- 3 Digital outputs (DS-CL42-SA)
- Max. 64 Position table function
- Support 4 Origin methods

DS-CLBS2-FETC



DS-CLBS2-FETC

12 ~ 48 VDC
6A (Max. 12A)
EtherCAT
6 Digital inputs
2 Digital outputs
BLDC, Slotless BLDC, Voice coil motor drive

DS-CLBS2-FCAO



DS-CLBS2-FCAO

12 ~ 48 VDC
6A (Max. 12A)
CANOpen
6 Digital inputs
2 Digital outputs
BLDC, Slotless BLDC, Voice coil motor drive

DS-BVM-FETC/FCAO



DS-BVM-FETC/FCAO

12 ~ 48 VDC
Rated output current 3A (Max. 6A)
FETC : EtherCAT / FCAO : CANOpen
6 Digital inputs
2 Digital outputs
1 Analog input
BLDC, Slotless BLDC, Voice Coil Motor Drive

DS-BVS-FETC/FCAO



DS-BVS-FETC/FCAO

12 ~ 48 VDC
Rated output current 10A (Max. 20A)
FETC : EtherCAT / FCAO : CANOpen
6 Digital inputs
2 Digital outputs
1 Analog input
BLDC, Slotless BLDC, Voice Coil Motor Drive

Motion Controller

DS-OLBS2-FRS4



DS-OLBS2-FRS4

12 ~ 24 VDC
Rated output current 5A [100W]
RS485 ModBus RTU
2 Digital inputs
1 Analog output
BLDC Motor velocity control drive

DS-OLBS4-FRS4



DS-OLBS4-FRS4

24 ~ 48 VDC
Rated output current 10A [200W]
RS485 ModBus RTU
3 Digital inputs
2 Digital outputs
1 Analog input
BLDC Motor velocity control drive

DS-OLBS6-FSC



DS-OLBS6-FSC

24 ~ 48 VDC
Rated output current 15A [350~400W]
RS485 ModBus RTU
3 Digital inputs
2 Digital outputs
1 Analog input
BLDC Motor velocity control drive

DS-OLBS8-FRS4



DS-OLBS8-FRS4

24 ~ 48 VDC
Rated output current 30A [600~750W]
RS485 ModBus RTU
3 Digital inputs
2 Digital outputs
1 Analog input
BLDC Motor velocity control drive

DS-OL42-IPD/IRS4



DS-OL42-IPD/IRS4

24 ~ 36 VDC
0.5 ~ 3.0A
Pulse input / RS485 ModBus RTU
2 Differential inputs
2 Digital inputs
1 Digital output
Max. 25,600 microstep resolution

DS-OL42-ICA0



DS-OL42-ICA0

24 ~ 36 VDC
0.5 ~ 3.0A
CANOpen
4 Digital inputs
Max. 25,600 microstep resolution

Motion Controller

DS-OL57-IPD/IRS4



DS-OL57-IPD/IRS4

24 ~ 48 VDC
0.5 ~ 5.6A
Pulse input / RS485 ModBus RTU
2 Differential inputs
2 Digital inputs
1 Digital output
Max. 25,600 microstep resolution

DS-OL57-ICA0



DS-OL57-ICA0

24 ~ 48 VDC
0.5 ~ 5.6A
CANOpen
4 Digital inputs
Max. 25,600 microstep resolution

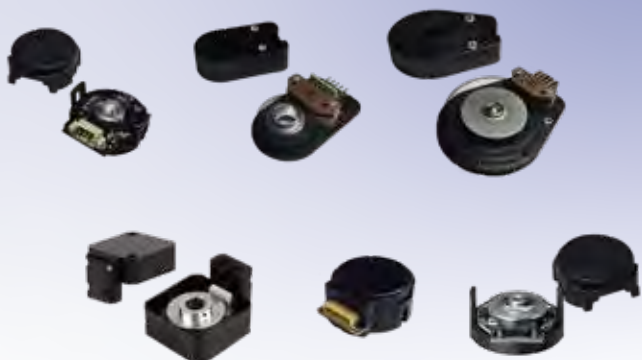
DS-OL57-ISC



DS-OL57-ISC

24 ~ 48 VDC
0.5 ~ 5.6A
Speed regulation
3 Differential inputs
Max. 25,600 microstep resolution

Encoders



Encoders

5V Incremental encoder options
Hollow shaft encoder options are available
Min. Encoder size 16mm
Min. 50CPR Resolution
Max. 10000CPR Resolutions
A/B/Z Phase
Single ended / Differential output

Absolute Encoders



Absolute encoders

Sensing method : Magnetic encoder
Main supply voltage : $5V \pm 10\%$
Batteryless type (No battery back-up)
Communication Interface : Biss-C
Air Gap : $0.4 \pm 0.1\text{mm}$
Resolution (bit) : Single-turn [16bit]
Multi-turn [16bit]
Operation temperature : $-10^{\circ}\text{C} \sim +85^{\circ}\text{C}$

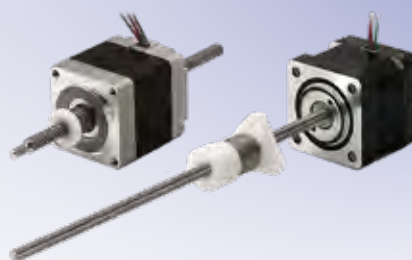
Power-Off Brake



Power-off brake

28 / 35 / 42 / 57 / 60 / 86mm
Available for Stepper and BLDC
24VDC
Max. Hold torque 5N·m
Life cycle : 2 Mil.

Anti-backlash Nut



Anti-backlash nut

For External / Non-Captive linear actuator
External linear actuator
20 / 28 / 35 / 42 / 57mm
Non-Captive linear actuator
20 / 28 / 35 / 42 / 57mm
According to lead screw selection,
length of Anti-Backlash Nut can be changed

Customization Options

Manual Knob



Manual knob

For External / Non-Captive linear actuator
Available for ball screw linear actuator
For quick pre-setting & origin movement
Convenience in applications
Laboratory
Optics
Laser
Positioning stage

Teflon Coating



Teflon coating

Greaseless screw and nut combination
Longer life cycle
Better thrust force generation
Available for External / Non-Captive linear actuator

Planetary Gearbox



Planetary gearbox

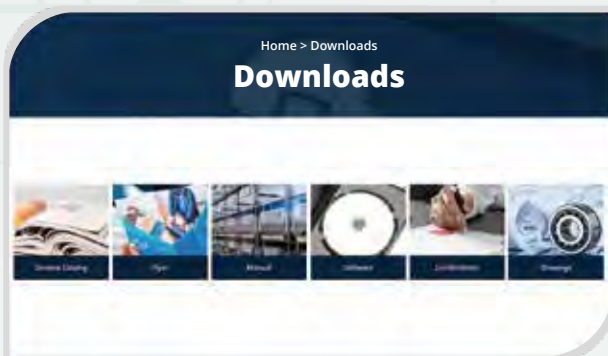
22 / 28 / 32 / 42 / 57 / 60mm Frame size
36 different ratio selection
Sleeve bearing : 22mm
Ball bearing : 28 / 32 / 42 / 57 / 60mm
1 ~ 1.2° No load backlash
15 ~ 25 arcmin for 60mm gearbox
Max. 95% efficiency
Max. limit torque 40N.m

IP Rating



IP rating

Max. IP54 protection rating for
linear actuators and hollow shaft motors
Max. IP65 protection rating for
Hybrid rotary stepper motors



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