ISA

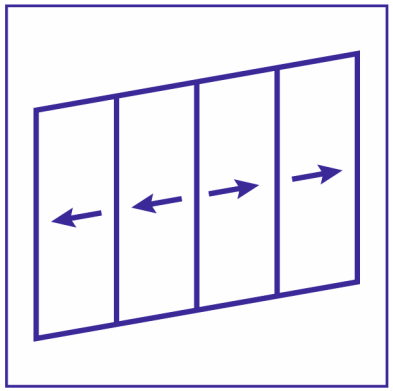
Your Intelligent Sliding System Drive

Invisible and powerful building automation

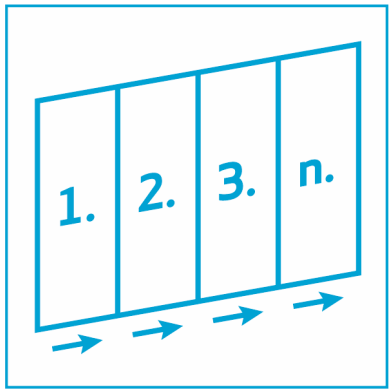
WHAT MOVES YOUR WORLD

MOOG

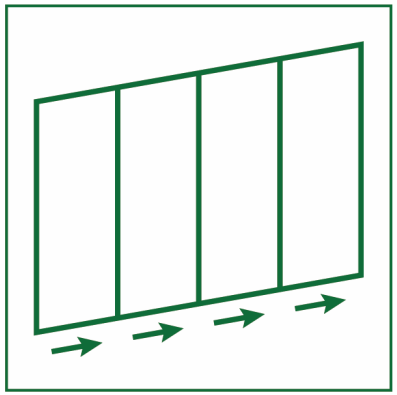
➡ Designed for a number of applications



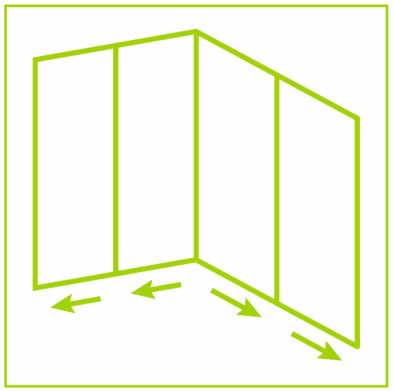
Conventional
sliding doors



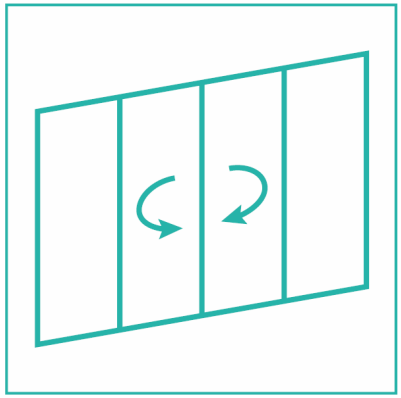
Multiple-sash system
Concertina operation



Multiple-sash system
Telescope operation

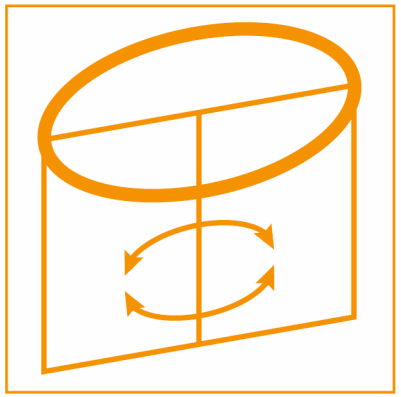


Corner solution
Concertina / Telescope
operation

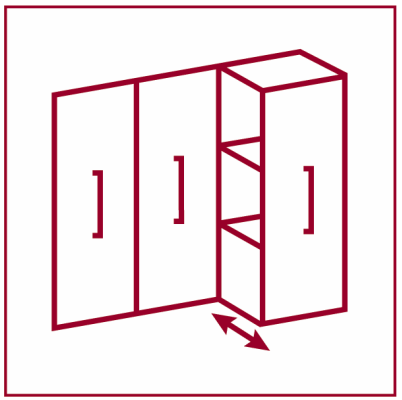


Revolving and swing
system

Round sliding system



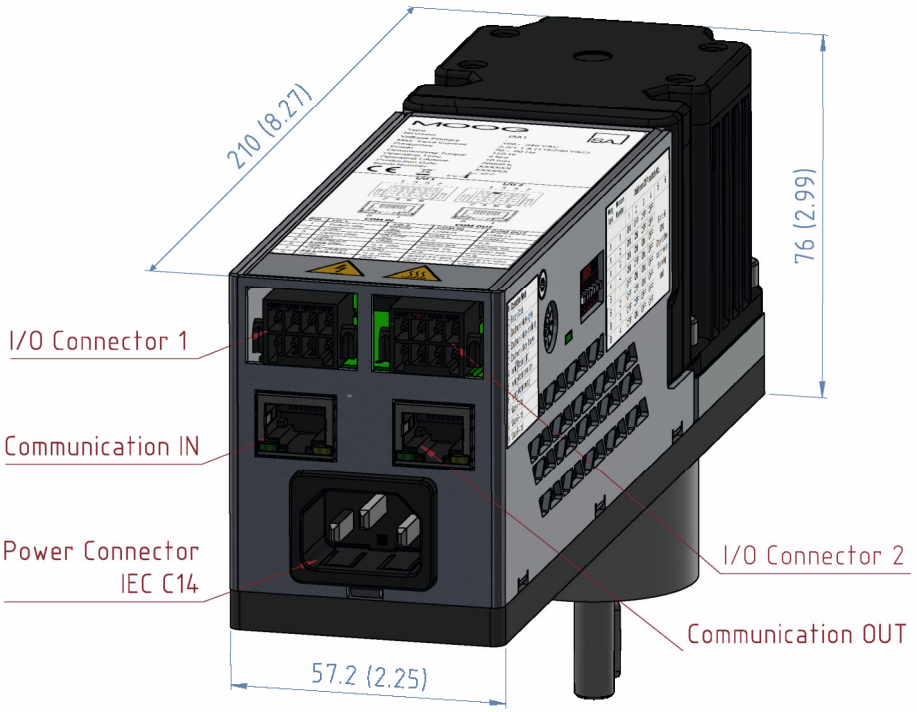
Revolving system



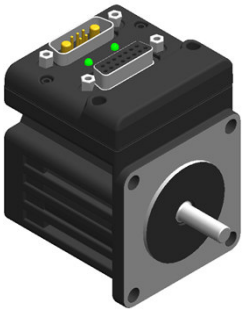
Cupboard and drawer
systems

Your application is not listed? Ask us – we will find a suitable solution for you too!

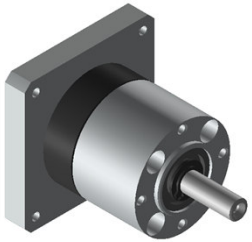
➡ Extremely compact design



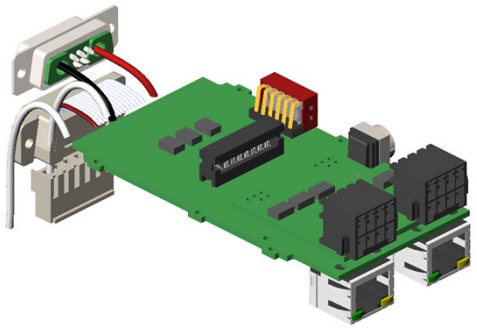
Dimensions (mm / in)



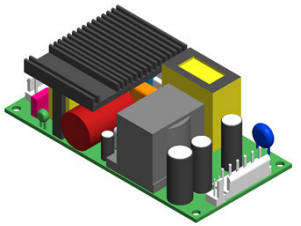
Moog Animatics
SmartMotor™



Gearbox



Interface electronics



Power supply

➡ Not keen on programming? No problem, we will be happy to deal with it!

◤ Key Features

Monitoring and limiting of the actuating current

Connection options for sensors

Connection and control of locking units

Adjustable direction of rotation

End position detection

◤ Modularity

Complete program ready for operation	Program modules for specific functions	Client programming

- Complete program ready for operation: All the functions are already included in the software and can be launched without any programming on the client's side.
- Program modules for specific functions: individual functions can be combined in accordance with the requirements of the application.
- Client programming: for simple and uncritical applications, the drive can also be delivered without any software. The programming has to be done on the client's / system manufacturer's side.

Do you need other unique and innovative functions?
Our experts can help!

➡ Technical data

Application	Sliding doors indoors and outdoors, sliding elements in furniture manufacture and shop fitting
Operating modes	Telescope operation (multiple sashes) Concertina operation (multiple sashes) Ventilation and passageway function Special features for corner solutions
Drive	A highly compact and brushless DC motor with high power density. The casing of the SmartMotor™ comprises as full-featured motion controller, a high-resolution encoder for precise position detection and an amplifier. A ISA1 with 150 W, for example, achieves up to 250 N thrust.
Nominal torque	Up to 2.9 Nm
Nominal speed	Up to 450 rpm
Interface	CAN-Bus: both Slave- and Master capable RS232 KNX: via CAN-converter
Max. shaft load	160 N (radial, center output shaft)
Inputs	1x open / 1x close / 1x reset / 2x sensor connection / 1x Locking Control (see below), 1x free to use
Locking Device Control	2x 24 V output for the control (max. 1 A, switchable), 1x input for the status feedback of the lock
Gearbox	Low-noise planetary gearbox with integrated helical gearing
Connection	All standard timing belts available ex factory
Installation Ease	For quick and easy installation, the base plate of the casing is provided with mounting threads.
Power supply	AC-DC, 150 W, integrated in the casing of the drive
Voltage	115 / 230 V_{AC}
Weight	1.5 kg

Benefits for manufacturers, architects and users

Benefits for manufacturers, architects and developers

- Extremely small installation space either in the ceiling, floor or wall. Reduces static and thermal bridge problems
- High efficiency and power density – elements of various sizes can be covered with the same engine size. Reduces construction, production, storage and service costs
- Partially self-programmed – simplifies the commissioning and servicing for assembly and service personnel
- Easy access to system parameters and system status
- Self-sufficient operational system – can but does not have to be connected to home bus system
- Maintenance-free, robust and brushless DC motor

Benefits for users

- Exceptional range of functions and options to integrate numerous special functions
- Convenient operation
- Very smooth running – despite high traversing speeds, almost silent drive is attainable even with large, heavy elements
- Optional integration of sensors, buttons and home controls
- Easy access to system parameters and system status, if desired by the manufacturer

Do you have specific requirements?
We will find a suitable solution for you – contact us!

➡ Environmentally conscious and responsible conduct

- High efficiency of our technology significantly reduces required energy consumption by up to 95%. At the same time, heat build-up is kept to minimum due to low power dissipation. This prevents excessive thermal load in frequently cramped installation areas.

- By using highly efficient brushless direct current motors in combination with intelligent power control energy, resources are used responsibly and a significant contribution to reducing CO2 emission is ensured.

CE

"We are committed to creating equilibrium between financial, social and ecological concerns in the manner of running our business."

Stefan Böckler

Managing Director at Moog Memmingen GmbH

MOOG

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