

# INTELLIGENT SLIDING SYSTEM DRIVE

High efficiency and powerful building automation in a compact design.



## A Reliable Revolutionary

The Intelligent Sliding System Drive ISA\* features extremely compact dimensions, high power density and outstanding programmability. Even heavy-duty sliding elements are maneuvered precisely and almost silently.

The ISA housing already includes a Moog Animatics SmartMotor™, power supply and the complete interface electronics. The low-noise planetary gearbox is integrated over the mounting plate.

This exceptionally compact bundle raises systems with heavy sliding elements of several hundred kilograms (up to more than thousand pounds) to a new level.

## Wide Range of Applications With Many Options

One and the same drive can be used for a variety of different applications and motion sequences. On request we take over the complete programming.

Of course, you can also use several ISAs at the same time. In this case, we provide for mutual communication between the motors, to avoid collision.

\* „Intelligenter Schiebesystem-Antrieb“ - German for „Intelligent Sliding System Drive“

## ADVANTAGES

- Extremely small installation space with high efficiency and power density
- Maintenance-free, robust and brushless DC motor
- Self-sufficient and -learning system
- Easy installation and operation
- Manually adjustable without loss of position
- High flexibility for integration and connections
- Extensive data logging and remote access to system parameters

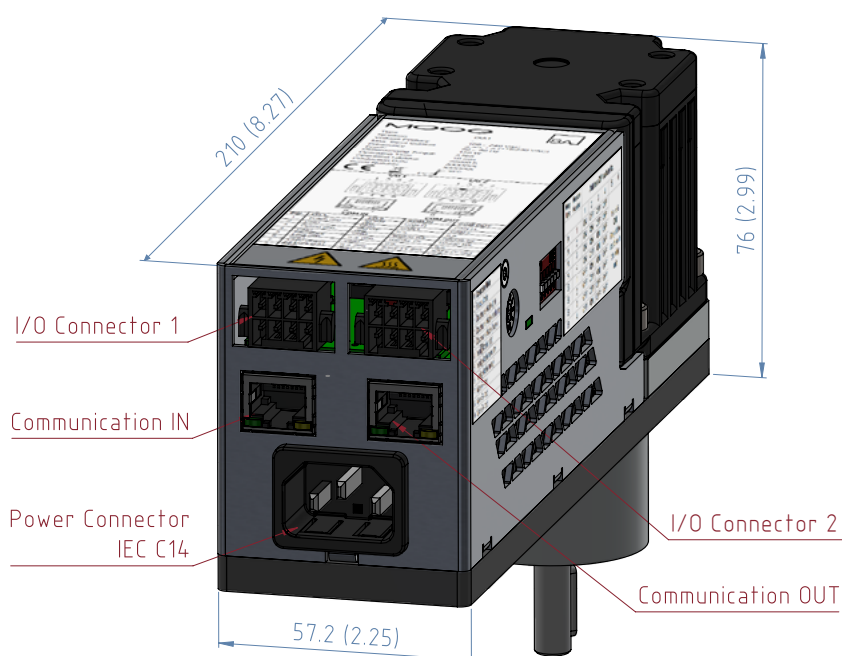
## APPLICATIONS

- Sliding doors and windows
  - Conventional sliding systems
  - Systems with multiple sliding elements: telescope or accordion operations
  - Corner solutions: accordion and telescope operations
  - Revolving and swing systems
  - Round sliding systems
- Automated dispensing cabinets



# SPECIFICATIONS - ISA1

Motor	150 W Moog Animatics SmartMotor™, achieves up to 250 N of thrust  This is a highly compact and brushless DC motor with high power density. The housing of the SmartMotor™ comprises a full-featured motion controller, a high-resolution encoder for precise position detection and an amplifier.
Nominal Torque	Up to 2.9 Nm
Nominal Speed	Up to 450 rpm
Interfaces	CAN: can be bus master or slave KNX: with a CAN converter
Max. Shaft Load	160 N (radial, centre of 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
Installation Ease	For quick and easy installation, the base plate of the housing is provided with mounting threads.
Power Supply	AC-DC, 150 W, integrated in the housing of the drive
Voltage	115 / 230 V <sub>AC</sub>
Weight	1.50 kg / 3.31 lb



Dimensions are in mm (inch)

Moog has offices around the world. For more information or the office nearest you, do not hesitate to contact us:

**info.mm@moog.com**  
**+49 (0) 8331 98480-0**

For product and service information, visit  
**[www.moog-memmingen.com](http://www.moog-memmingen.com)**

Moog is a registered trademark of Moog Inc.  
All trademarks as indicated herein are the property of Moog Inc. and its subsidiaries.  
©2019 Moog Inc. All rights reserved. All changes are reserved.

ISA1 - Intelligent Sliding System Drive  
PIM/Rev. A, October 2019, Id. CDL59020-en

This technical information is based on currently available data and is subject to change at any time. Customized systems can also show discrepancies.

**MOOG**