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
**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.

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Nominal Torque</td>
<td>Up to 2.9 Nm</td>
</tr>
<tr>
<td>Nominal Speed</td>
<td>Up to 450 rpm</td>
</tr>
<tr>
<td>Interfaces</td>
<td>CAN: can be bus master or slave</td>
</tr>
<tr>
<td></td>
<td>KNX: with a CAN converter</td>
</tr>
<tr>
<td>Max. Shaft Load</td>
<td>160 N (radial, centre of output shaft)</td>
</tr>
<tr>
<td>Inputs</td>
<td>1x open / 1x close / 1x reset / 2x sensor connection / 1x locking control (see below), 1x free to use</td>
</tr>
<tr>
<td>Locking Device Control</td>
<td>2x 24 V output for the control (max. 1 A, switchable), 1x input for the status feedback of the lock</td>
</tr>
<tr>
<td>Gearbox</td>
<td>Low-noise planetary gearbox with integrated helical gearing</td>
</tr>
<tr>
<td>Connection</td>
<td>All standard timing belts available</td>
</tr>
<tr>
<td>Installation Ease</td>
<td>For quick and easy installation, the base plate of the housing is provided with mounting threads.</td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC-DC, 150 W, integrated in the housing of the drive</td>
</tr>
<tr>
<td>Voltage</td>
<td>115 / 230 V AC</td>
</tr>
<tr>
<td>Weight</td>
<td>1.50 kg / 3.31 lb</td>
</tr>
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</table>

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For product and service information, visit

[www.moog-memmingen.com](http://www.moog-memmingen.com)

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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.