SIMOTICS S-1FS2 servomotors with stainless steel housings are ideal for use in areas with very high hygiene and cleanliness requirements thanks to their specific product properties.

Areas of application

- Food industry: meat and fish processing
- Beverage filling
- Packaging and handling applications
- Pharmaceutical applications

Availability of SIMOTICS S-1FS2

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 2021</td>
<td>Motors in shaft heights 40, 52 and 63 are now available for sales and delivery</td>
</tr>
<tr>
<td>End of July 2021</td>
<td>Optional MC400 extension cables 6FX40... for SIMOTICS S-1FS2 with connection option Q1_ are scheduled to be available</td>
</tr>
<tr>
<td>August 2021</td>
<td>Shaft height 80 is scheduled for availability</td>
</tr>
<tr>
<td>Fall 2021*</td>
<td>Offline engineering via StartDrive is possible starting from V17, update 1 to be released</td>
</tr>
</tbody>
</table>

*Until then, online commissioning is possible via the web server integrated in the SINAMICS S210 servo system.
Major features of SIMOTICS S-1FS2 servomotors

- Wide range of power ratings: three frame sizes in the power range 0.45 to 2kW with torques from 3.1 to 14Nm
- High dynamics due to low inherent inertia and high overload capacity, such as for pick-and-place applications
- Optional holding brake, stainless steel shaft available with and without feather key
- One cable connection (OCC) for easier installation and cleaning
- Various connection versions available: cable tail for converter direct connection or MOTION CONNECT coupling
- High-resolution 22-bit multi-turn encoder as standard encoder (AM22DQC)
- Very high degree of protection IP66/IP67 for the entire motor, IP69k (30bar) for the motor housing
- Suitable for CIP processes (“Cleaning in Place”) with commercially available cleaning agents
- High-quality materials ensure very high robustness, long service life and maximum compatibility with the requirements of the food industry: housing made of 1.4404 stainless steel, EPDM seals, bearing grease with NSF H1 approval
- Designed according to EHEDG guidelines, certification for EHEDG EL Class I AUX is in preparation

SIMOTICS S-1FS2 ordering information

<table>
<thead>
<tr>
<th>S-1FS2...</th>
<th>M0 [Nm]</th>
<th>Mmax [Nm]</th>
<th>Is [A]</th>
<th>Imax [A]</th>
<th>w/o brake inertia J [kg/cm²]</th>
<th>with Brake inertia J [kg/cm²]</th>
<th>rated power [W]</th>
<th>short time nmax [1/min]</th>
<th>pitch circle [mm]</th>
<th>centering spigot [mm]</th>
<th>shaft diameter [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1FS2104-6AF</td>
<td>3.1</td>
<td>2.55</td>
<td>10</td>
<td>2.85</td>
<td>0.72</td>
<td>0.8</td>
<td>3000</td>
<td>7200</td>
<td>800</td>
<td>90</td>
<td>70</td>
</tr>
<tr>
<td>1FS2105-6AF</td>
<td>7.6</td>
<td>4.1</td>
<td>24</td>
<td>6.6</td>
<td>24</td>
<td>2.8</td>
<td>3.58</td>
<td>3000</td>
<td>6000</td>
<td>1290</td>
<td>115</td>
</tr>
<tr>
<td>1FS2106-6AF</td>
<td>14</td>
<td>6.2</td>
<td>42</td>
<td>12</td>
<td>44</td>
<td>9</td>
<td>-</td>
<td>3000</td>
<td>6000</td>
<td>1950</td>
<td>130</td>
</tr>
<tr>
<td>1FS2106-6AE</td>
<td>14</td>
<td>6.9</td>
<td>42</td>
<td>12</td>
<td>44</td>
<td>-</td>
<td>10.6</td>
<td>2500</td>
<td>6000</td>
<td>1810</td>
<td>130</td>
</tr>
</tbody>
</table>

- holding brake
  - without brake 0
  - with brake 1
- shaft end
  - plain 0
  - with feather key 1
- cable outlet
  - for direct S210 connection 0
  - for use with MC 6FX... 1
- cable length
  - A 0.5m
  - X 11m

1) weight without cable
System integration and constraints
SIMOTICS S-1FS2 can be operated on SINAMICS S210 servo-drive systems with firmware RT 5.2 SP3 HF3 or higher. Operation on SINAMICS S120 is not possible.

Configuring and documentation
TIA Selection Tool
- The SIMOTICS S-1FS2 servomotor is configurable with SINAMICS S210
  
  Click here

DT Configurator
- Selection/configuration, dimension drawings, CAD models and data sheets
  
  Click here

Additional information available at Siemens Industry Online Support via Entry type
- Product note Entry ID: 109795323, Entry date: 05/20/2021
  
  Click here

---

<table>
<thead>
<tr>
<th>Description</th>
<th>Article No. supplement</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 m (0 ft)</td>
<td>A</td>
</tr>
<tr>
<td>10 m (32.8 ft)</td>
<td>B</td>
</tr>
<tr>
<td>20 m (65.6 ft)</td>
<td>C</td>
</tr>
<tr>
<td>30 m (98.4 ft)</td>
<td>D</td>
</tr>
<tr>
<td>40 m (131 ft)</td>
<td>E</td>
</tr>
<tr>
<td>50 m (164 ft)</td>
<td>F</td>
</tr>
</tbody>
</table>

Length code max. 50 m (164 ft)