Syncing Value and Performance.

Siemens Intelligent Sync Transfer minimizes costs while maximizing performance.
**Advanced Engineering Capabilities**

When purchasing a new sync transfer system, buying from Siemens offers significant advantages. Not only does working with a single supplier help simplify maintenance and service, it also makes engineering and design less complicated — and less costly. The end result is a seamlessly integrated system that is engineered for optimal compatibility.

By leveraging the most complete, integrated portfolio of power products in the industry, Siemens can design your sync transfer system to suit your application. With standard, pre-configured systems that utilize our best-in-class VFD and motor control products, Siemens can provide a full spectrum of standard and flexible options.

Our proprietary, industry-leading, Sync Transfer Controller automates the unique bumpless closed transfer functionality. In addition to providing a user-friendly interface, the preconfigured controller also includes advanced interlock sequencing to help prevent control faults.

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**An Intelligent Process to Protect Your Process & Plant**

Synchronous transfer allows users to minimize unnecessary stress on the power grid and your critical equipment in multi-motor applications by transferring motor supply from the Variable Frequency Drive (VFD) to the utility line. But not all synchronous transfer systems are created equal. Open and standard closed transfer can cause harmful current & torque transients due to phase, frequency, and voltage mismatch between the motor and line. Only Siemens **Intelligent Sync Transfer** system offers a truly bumpless closed transfer by guaranteeing a match between the motor and line.

**Siemens Offers a Truly Bumpless Closed Transfer**

Siemens bumpless closed transfer eliminates damaging transients. This state-of-the art system progressively synchronizes the motor and the line to prevent unnecessary mechanical and electrical stress. Siemens unique approach helps improve system efficiency while increasing uptime. And when it comes to your process, uptime is everything.

Only Siemens takes an intelligent approach to offer a truly bumpless closed synchronous transfer system. Other closed transfer processes introduce harmful torque and current transients into your drive train, which can lead to damaged equipment and premature failure.

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**Figure 1: Example one-line diagram illustrating interconnection of Intelligent Sync Transfer components**
Exceptional Logistics
Once the sync transfer system has been completely assembled, Siemens performs full power testing to ensure seamless integration and operation. Components are assembled and tested just outside of Pittsburgh, PA, delivering best-in-class lead time and USA-made content to meet new government regulations for pipelines.

A proven track record of on-time delivery backs every Siemens drive system. And because meticulous testing eliminates potential issues in advance, commissioning is quick, allowing startup to be completed in as little as three days.

Proven Reliable Operation
A Siemens Intelligent Sync Transfer system comes with reliability built in. The SINAMICS PERFECT HARMONY GH180 drive’s multi-cell design and patented Advanced Cell Bypass technology provide the highest level of system reliability and availability that customers have come to expect from Siemens.

Process reliability is ensured through multiple layers of redundancy, allowing the drive to achieve 99.9 percent availability — and qualifying it as the only drive approved for use in nuclear power applications. Optional Arc Defense technology can be integrated into the system to provide even greater levels of operator safety.

When selecting your sync transfer supplier, choose the industry leader in medium voltage drive technology. Choose the most reliable and most efficient multi-motor control system in the industry today. Choose Siemens Intelligent Sync Transfer.

Figure 2: Example Intelligent Sync Transfer lineup for a three motor application.

<table>
<thead>
<tr>
<th>Standard Ratings</th>
<th>Optional Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIMOVAC Motor Control Unit Rating</td>
<td>Circuit Breaker</td>
</tr>
<tr>
<td>400A or 720A</td>
<td>800A</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>Input Voltage</td>
</tr>
<tr>
<td>7.2kV</td>
<td>13.8kV</td>
</tr>
<tr>
<td>Motor Voltage</td>
<td>Motor Voltage</td>
</tr>
<tr>
<td>Up to 7.2kV</td>
<td>Up to 13.8kV</td>
</tr>
<tr>
<td>Motor FLA</td>
<td>Motor FLA</td>
</tr>
<tr>
<td>Up to 720A</td>
<td>Up to 750A</td>
</tr>
</tbody>
</table>

Table 1: Intelligent Sync Transfer Specifications
The information provided in this brochure contains merely general descriptions or characteristics of performance, which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. All product designations may be trademarks or product names of Siemens or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.