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Ingenuity for life



Syncing Value and Performance.

Siemens *Intelligent Sync Transfer* minimizes costs while maximizing performance.

usa.siemens.com/drivetechnologies

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.

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.

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.

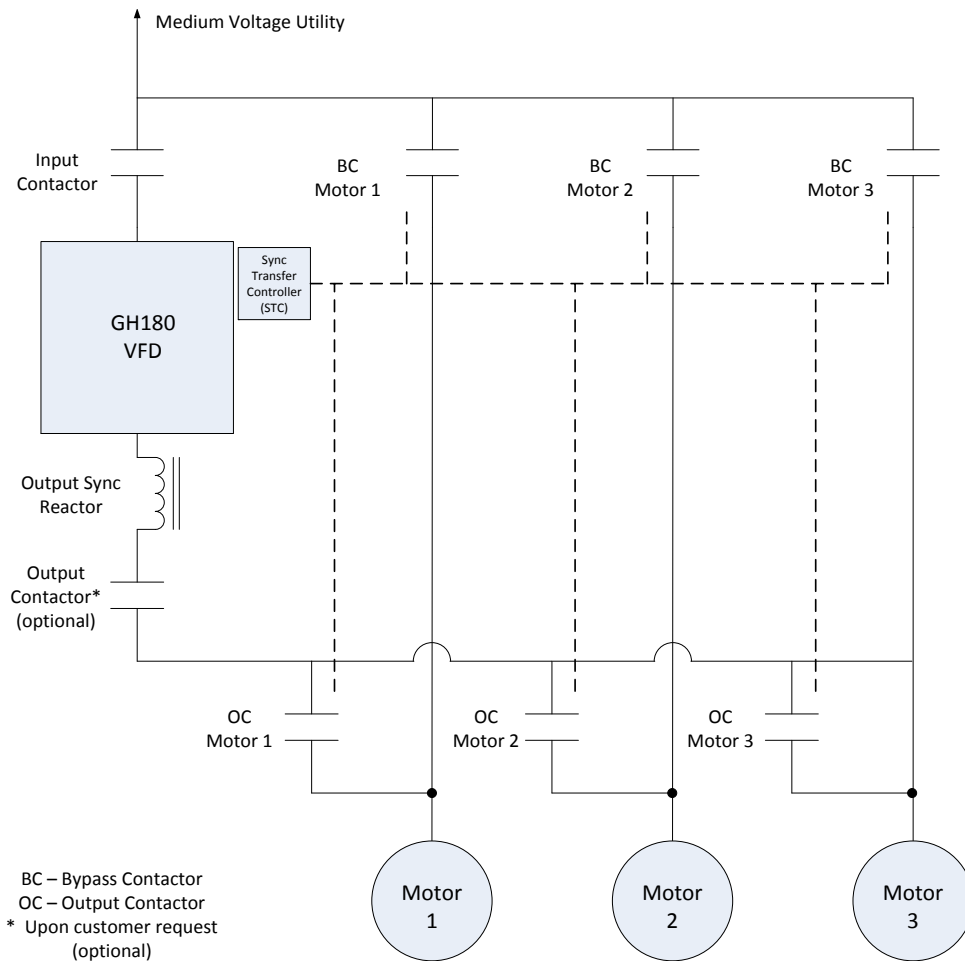


Figure 1: Example one-line diagram illustrating interconnection of *Intelligent Sync Transfer* components

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*.

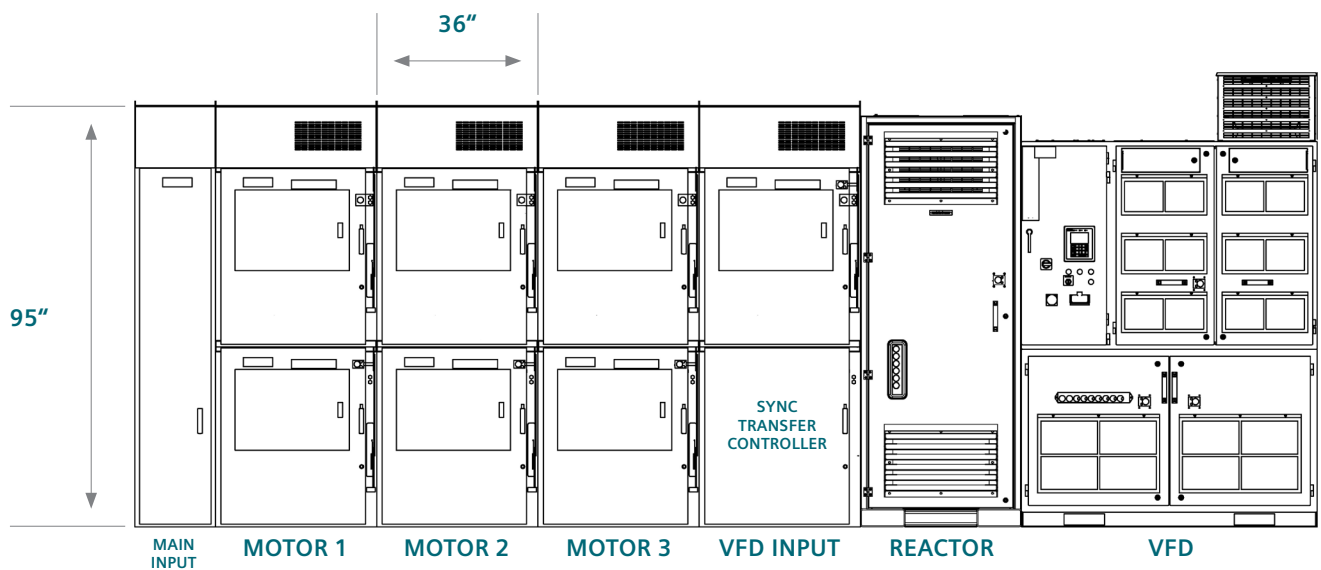


Figure 2: Example *Intelligent Sync Transfer* lineup for a three motor application.

Standard Ratings

SIMOVAC Motor Control Unit Rating	400A or 720A
Input Voltage	7.2kV
Motor Voltage	Up to 7.2kV
Motor FLA	Up to 720A

Table 1: *Intelligent Sync Transfer* Specifications

Optional Ratings

Circuit Breaker	800A
Input Voltage	13.8kV
Motor Voltage	Up to 13.8kV
Motor FLA	Up to 750A

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