

The background of the entire page is a stylized illustration of a modern industrial factory. It features a curved conveyor belt with several cardboard boxes moving along it. Overlaid on this scene are various digital and technical elements: glowing blue wireframe models of industrial machinery, including what appears to be a motor and a pump, are positioned above the conveyor. The background is filled with a grid of binary code (0s and 1s) and abstract geometric shapes, creating a high-tech, digital atmosphere. The Siemens logo is prominently displayed in the top left corner.

**SIEMENS**

Motion Control Drives

# SINAMICS Converters for Single-Axis Drives

SINAMICS G115D  
Distributed Drive System

Order  
overview  
D 31.2 N

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[siemens.com/sinamics-g115d](https://www.siemens.com/sinamics-g115d)

## Order overview

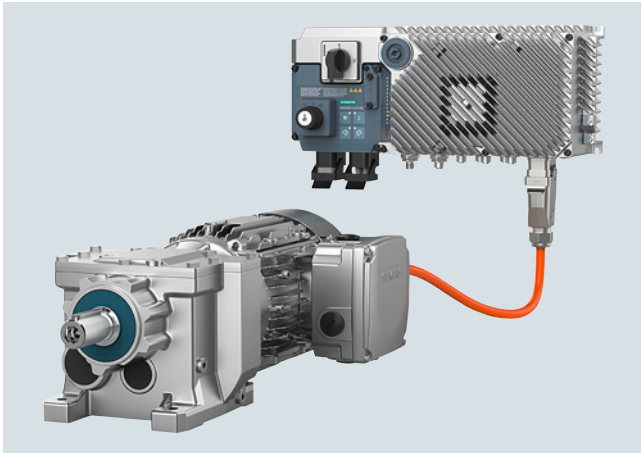
### SINAMICS G115D distributed drive system

#### System overview

##### Overview

The SINAMICS G115D distributed drive system provides fully preconfigured and ready-to-connect solutions in a modular concept that includes the converter, motor and gear unit. The converter supports three-phase asynchronous motors with efficiency class IE3 or high-efficiency synchronous reluctance motors with efficiency class IE4. It meets all requirements of conveyor system applications – from simple speed control to sophisticated encoderless vector control. Integrated functions such as fast/slow speed switchover, Quick Stop and limit position disconnecter make the SINAMICS G115D particularly suitable for applications in conveyor systems. For applications that require safety technology, the SINAMICS G115D offers the Safety Integrated Function STO (Safe Torque Off), which can be implemented without additional external components. The SINAMICS G115D distributed drive system is available for wall mounting and for motor mounting.

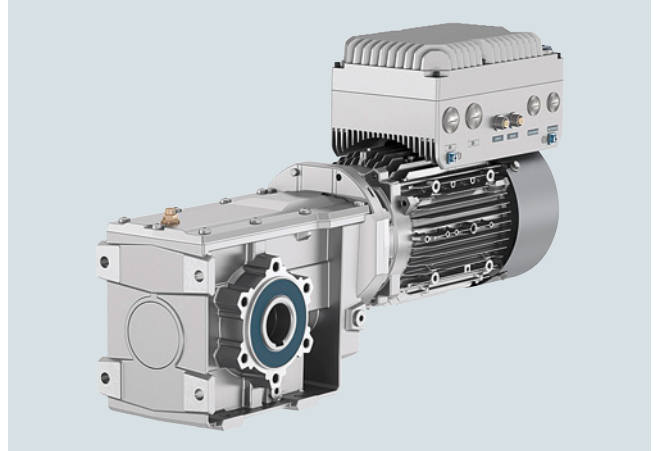
#### **SINAMICS G115D distributed drive system, wall-mounted**



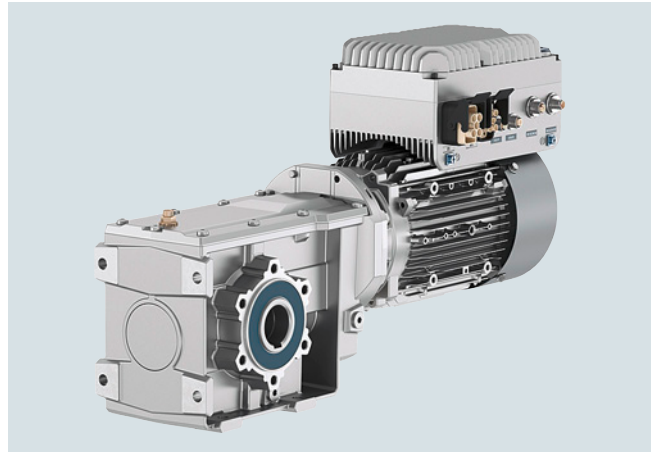
SINAMICS G115D distributed drive system, wall-mounted, PROFINET, version with plug-in connection, FSA, 1.5 kW

The wall-mounted converter with its different versions (frame sizes FSA to FSC) in a performance range from 0.37 kW to 7.5 kW is suitable for a large number of different applications. Thanks to the compact design with degree of protection IP65 (plug-in connection) or IP66 (cable gland), it can be seamlessly integrated into the system.

#### **SINAMICS G115D distributed drive system, motor-mounted**



SINAMICS G115D distributed drive system, motor-mounted, PROFINET, version with cable gland, FSA, 1.5 kW, SIMOGEAR motor LE 90, gearbox B49, hollow shaft



SINAMICS G115D distributed drive system, motor-mounted, PROFINET, version with plug-in connection, FSA, 1.5 kW, SIMOGEAR motor LE90, gearbox B49, hollow shaft

The motor-mounted converter with its different versions (frame sizes FSA and FSB) in a performance range from 0.37 kW to 4 kW is suitable for a large number of different applications. Thanks to the compact design with degree of protection up to IP65, it can be seamlessly integrated into the system.

## Overview

### **Perfect combination with SIMATIC controllers and PROFINET**

Integration via PROFINET communication with PROFIsafe, AS-Interface, EtherNet/IP into a higher-level SIMATIC control system is very easy thanks to full TIA Portal integration, which provides a tool as well as an operating and data management concept. In addition, an optional web server module is available with the web server module SINAMICS G120 Smart Access (SAM) – a WLAN-based web server solution for simple and fast wireless setup with tablets or smartphones during commissioning and for diagnostics.

The SINAMICS G115D distributed drive system is ready for digitalization. All operating data can be transferred to the MindSphere cloud solution. The MindSphere application "Analyze MyDrives" facilitates the process evaluation of operating data, with the possibility of adaptation to individual customer requirements. This simplifies the recording and evaluation of the operating conditions of the drive system.

### **Reasons for using the SINAMICS G115D distributed drive system**

- User-friendly modular solution – pre-configured and ready for connection
- Versatile, robust and reliable system
- New design for quick and easy installation, cabling and commissioning
- The wall-mounted and motor-mounted variants use the same platform
- No control cabinet required, thanks to the installation on the machine less space required and lower cooling requirements
- Long cables between the converters and the motors can be avoided (thus less power loss, reduced interference emissions, and lower costs for shielded cables and additional filters)
- Supports asynchronous motors and high-efficiency synchronous reluctance motors according to efficiency class IE4
- Worldwide winding of the motor independent of the line voltage
- Temperature range from -30 °C to 55 °C (suitable for installation in deep-freeze applications)
- Integrated safety, STO (Safe Torque Off) via fail-safe digital input F-DI or PROFIsafe
- Perfectly prepared for digitalization thanks to various communication interfaces and integration of the AMD (Analyze MyDrives) application into the TIA tool environment
- Special properties for the intralogistics market (e.g. repair switches, local remote control, Safety Integrated, ready-to-use functions)

### **The family of distributed drive systems at Siemens**

Siemens offers an innovative portfolio of frequency converters for optimal implementation in distributed drive solutions. The strengths of the individual members of the converter family allow easy adaptation to the most diverse application requirements:

- Identical connection systems
- User-friendly commissioning and configuration tools

Products from the family of distributed drives:

- SINAMICS G115D distributed drive system (wall and motor-mounted)
- SINAMICS G120D frequency converters
- SIMATIC ET 200pro FC-2 frequency converters
- SIRIUS M200D motor starters

### **Modularity**

SINAMICS G115D is available as motor-mounted and wall-mounted version. This modular, distributed converter system with degree of protection IP65/66 comprises various functional units.

The most important components are:

- Electronic Module
- Wiring Module

The Electronic Module contains the frequency converter which controls and monitors the connected motor using various control modes. The input signals can be connected directly to the converter and initiate local reactions independently of each other, or they can be transmitted to the central control system via PROFINET / EtherNet/IP or AS-Interface for further processing within the framework of the overall system. The Electronic Module supplies the motor. State-of-the-art IGBT technology with pulse width modulation (PWM) is used for extremely reliable and flexible motor operation. Extensive protective functions provide a high degree of protection for the entire distributed drive system.

The Wiring Module provides ample space for wiring to connect to the main power supply, communication, and digital inputs and outputs. Different versions with cable glands and plug-in connections are available.

## Order overview

### SINAMICS G115D distributed drive system

#### System overview

#### Overview

##### **Safety Integrated**

The converters of the SINAMICS G115D distributed drive systems are already equipped with the Safety Integrated Function STO (Safe Torque Off), with certification according to IEC 61508 SIL 2 as well as EN ISO 13849-1 PL d and Category 3. This can be activated either via PROFIsafe communication protocol or via the fail-safe digital input F-DI.

##### **Drive Technology Configurator (DT Configurator)**

The Drive Technology Configurator (DT Configurator) helps you to configure the optimum drive technology products for a number of applications – starting with gear units, motors, converters as well as the associated options and components and ending with controllers, software licenses and connection systems.

The DT Configurator can be used on the Internet without requiring any installation. The DT Configurator can be found in the Siemens Industry Mall at the following address:

[www.siemens.com/dt-configurator](http://www.siemens.com/dt-configurator)

##### **SINAMICS Startdrive commissioning tool**

SINAMICS Startdrive is a tool integrated into the TIA Portal for configuring, commissioning and diagnostics of the SINAMICS converter family. SINAMICS Startdrive (V16 and higher) can be used for implementing converter tasks with most of the SINAMICS G and SINAMICS S converter series. The commissioning tool has been optimized in terms of simplicity, ease of use, and consistent use of the benefits of the TIA Portal to provide a uniform working environment for PLC, HMI and drives.

The SINAMICS Startdrive Basic commissioning tool is available free on the internet at [www.siemens.com/startdrive](http://www.siemens.com/startdrive)

##### **Drive dimensioning of the SINAMICS G115D distributed drive system with the TIA Selection Tool**

The SINAMICS G115D distributed drive system is easily configured with the TIA Selection Tool under the Drive Dimensioning plug-in. It provides support when selecting the hardware and firmware components necessary to implement a drive task. The plug-in encompasses the configuration of the entire drive system and allows the handling of individual drives.

- Intuitive user interface, menu-based operation and help
- Configuration of the SINAMICS G115D distributed drive system
- Adjustable load cycles and various mechanical systems integrated
- Interface to the TIA Portal and Industry Mall

The TIA Selection Tool is available for free on the Internet at [www.siemens.com/tia-selection-tool-standalone](http://www.siemens.com/tia-selection-tool-standalone)

##### Note:

Integration of the SINAMICS G115D distributed drive system, motor-mounted, and online version available soon.

##### **SIMARIS planning tools for plants with SINAMICS drives (available soon)**

Electrical planning: Even easier with software!

Electrical planning for power distribution in non-residential and industrial buildings has never been more complex. To ensure you, as a specialist planner, have the best hand when it comes to electrical planning with SINAMICS drives, we provide support with the following efficient software tools:

- SIMARIS design for dimensioning and
- SIMARIS project for calculating the space requirements of the distribution boards.

##### **Extended warranty**

For SINAMICS G115D, Siemens offers an extended warranty of up to 4 years:

- 18-month standard warranty
- Optional extension via **Service Protect**
  - Free for the first 6 months after registering the product: <https://myregistration.siemens.com>
  - With costs for 1 or 2 additional years for wall-mounted and motor-mounted versions (complete system with converter and geared motor)

Additional information is available on the Internet at:

<https://support.industry.siemens.com/cs/ww/en/sc/4842>

##### **More information**

**Compact Operating Instructions** are supplied in hard copy form in German, English and Chinese with every SINAMICS G115D.

The latest technical documentation (catalogs, dimensional drawings, certificates, manuals and operating instructions as well as further technical specifications) are available on the Internet at:

[www.siemens.com/sinamics-g115d/documentation](http://www.siemens.com/sinamics-g115d/documentation)

and the Drive Technology Configurator (DT Configurator):

[www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

# Order overview

## SINAMICS G115D distributed drive system

### SINAMICS G115D distributed converter, wall-mounted

#### Selection and ordering data

| SINAMICS G115D distributed converter, wall mounted · 380 ... 480 V 3 AC                |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|----------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------|-----------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----|-----|---|---|---|---|----|----|----|----|----|----|----|---|---|--|---|--|--|--|
| Rated power <sup>1)</sup>                                                              |                               | Rated output current I <sub>N</sub> <sup>2)</sup> | Rated input current <sup>3)</sup> | Frame size                   | SINAMICS G115D, wall-mounted<br>Degree of protection IP65/IP66/UL Type 4X<br>with integrated line filter class A<br>according to EN 55011 |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| 400 V<br>kW                                                                            | 480 V<br>hp                   | at 400 V<br>A                                     | at 400 V<br>A                     |                              | Data position in Article No.                                                                                                              |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               |                                                   |                                   |                              | 1                                                                                                                                         | 2 | 3 | 4   | 5   | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |   |   |  |   |  |  |  |
| <b>380 ... 480 V 3 AC · Rated pulse frequency 4 kHz · Input frequency 45 ... 66 Hz</b> |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| 0.37                                                                                   | 0.5                           | 1.3                                               | 1.23                              | FSA                          | 6                                                                                                                                         | S | L | 3   | 5   | 2 | ■ | - | ■ | X  | ■  | ■  | 0  | -  | 3  | A  | ■ | 0 |  |   |  |  |  |
| 0.55                                                                                   | 0.75                          | 1.7                                               | 1.58                              | FSA                          | 6                                                                                                                                         | S | L | 3   | 5   | 2 | ■ | - | ■ | X  | ■  | ■  | 0  | -  | 5  | A  | ■ | 0 |  |   |  |  |  |
| 0.75                                                                                   | 1                             | 2.2                                               | 1.99                              | FSA                          | 6                                                                                                                                         | S | L | 3   | 5   | 2 | ■ | - | ■ | X  | ■  | ■  | 0  | -  | 7  | A  | ■ | 0 |  |   |  |  |  |
| 1.1                                                                                    | 1.5                           | 3.1                                               | 2.69                              | FSA                          | 6                                                                                                                                         | S | L | 3   | 5   | 2 | ■ | - | ■ | X  | ■  | ■  | 1  | -  | 1  | A  | ■ | 0 |  |   |  |  |  |
| 1.5                                                                                    | 2                             | 4.1                                               | 3.48                              | FSA                          | 6                                                                                                                                         | S | L | 3   | 5   | 2 | ■ | - | ■ | X  | ■  | ■  | 1  | -  | 5  | A  | ■ | 0 |  |   |  |  |  |
| 2.2                                                                                    | 3                             | 5.9                                               | 5.18                              | FSB                          | 6                                                                                                                                         | S | L | 3   | 5   | 2 | ■ | - | ■ | X  | ■  | ■  | 2  | -  | 2  | A  | ■ | 0 |  |   |  |  |  |
| 3.0                                                                                    | 4                             | 7.7                                               | 6.76                              | FSB                          | 6                                                                                                                                         | S | L | 3   | 5   | 2 | ■ | - | ■ | X  | ■  | ■  | 3  | -  | 0  | A  | ■ | 0 |  |   |  |  |  |
| 4.0                                                                                    | 5                             | 10.2                                              | 8.95                              | FSB                          | 6                                                                                                                                         | S | L | 3   | 5   | 2 | ■ | - | ■ | X  | ■  | ■  | 4  | -  | 0  | A  | ■ | 0 |  |   |  |  |  |
| 5.5                                                                                    | 7.5                           | 13.2                                              | 11.88                             | FSC                          | 6                                                                                                                                         | S | L | 3   | 5   | 2 | ■ | - | ■ | X  | ■  | ■  | 5  | -  | 5  | A  | ■ | 0 |  |   |  |  |  |
| 7.5                                                                                    | 10                            | 19                                                | 17.11                             | FSC                          | 6                                                                                                                                         | S | L | 3   | 5   | 2 | ■ | - | ■ | X  | ■  | ■  | 7  | -  | 5  | A  | ■ | 0 |  |   |  |  |  |
| <b>Article No. supplements</b>                                                         |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| <b>Brake voltage</b>                                                                   |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    | 0  |    |    |    |   |   |  |   |  |  |  |
| 180 V DC *)                                                                            |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    | 1  |    |    |    |   |   |  |   |  |  |  |
| 400 V AC                                                                               |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| <b>Operating options</b>                                                               |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| Without operating option *)                                                            |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  | 0 |  |  |  |
| Repair switch                                                                          |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  | 1 |  |  |  |
| Local remote control                                                                   |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  | 2 |  |  |  |
| Repair switch and local remote control                                                 |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  | 3 |  |  |  |
| <b>Connection type</b>                                                                 | <b>Fieldbus communication</b> | <b>I/O</b>                                        | <b>Motor</b>                      | <b>400 V AC</b>              | <b>24 V DC</b>                                                                                                                            |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| Cable gland<br>with daisy chain                                                        | without                       | Cable gland *)                                    |                                   |                              |                                                                                                                                           |   |   |     | A 0 |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               | Cable gland                                       |                                   |                              | Power supply unit integrated                                                                                                              |   |   |     | H 0 |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        | M12                           | Cable gland *)                                    |                                   |                              |                                                                                                                                           |   |   |     | A 2 |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               | M12                                               |                                   | Cable gland                  |                                                                                                                                           |   |   |     | A 6 |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               | Cable gland                                       |                                   |                              | Power supply unit integrated                                                                                                              |   |   |     | H 2 |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               | M12                                               |                                   | Cable gland                  | Power supply unit integrated                                                                                                              |   |   |     | H 6 |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| Plug-in connection<br>without daisy chain                                              | M12                           | M12                                               | Q8/0                              | Q4/2                         | 7/8* <sup>5)</sup>                                                                                                                        |   |   |     | B 0 |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               |                                                   |                                   | Power M12 <sup>6)</sup>      |                                                                                                                                           |   |   | B 4 |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               |                                                   |                                   | Quickon <sup>4)</sup>        |                                                                                                                                           |   |   | C 0 |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               |                                                   |                                   | MQ15 <sup>4)</sup>           |                                                                                                                                           |   |   | D 0 |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               |                                                   |                                   | Q4/2                         | Power supply unit integrated                                                                                                              |   |   |     | K 0 |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               |                                                   |                                   | Quickon <sup>4)</sup>        |                                                                                                                                           |   |   | L 0 |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               |                                                   |                                   | MQ15 <sup>4)</sup>           |                                                                                                                                           |   |   | M 0 |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| Plug-in connection<br>with daisy chain                                                 | M12                           | M12                                               | Q8/0                              | 2 × Q4/2                     | 2 × 7/8* *) <sup>5)</sup>                                                                                                                 |   |   |     | E 0 |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               |                                                   |                                   | 2 × Power M12 <sup>6)</sup>  |                                                                                                                                           |   |   | E 4 |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
|                                                                                        |                               |                                                   |                                   | Power supply unit integrated |                                                                                                                                           |   |   | N 0 |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| <b>Fieldbus communication</b>                                                          |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| AS-Interface                                                                           |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| Without fieldbus communication                                                         |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| PROFINET, EtherNet/IP                                                                  |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |
| A<br>B<br>F                                                                            |                               |                                                   |                                   |                              |                                                                                                                                           |   |   |     |     |   |   |   |   |    |    |    |    |    |    |    |   |   |  |   |  |  |  |

\* If you select "Brake voltage 180 V DC" and "Without operating option" in combination with one of the connection types **A0**, **A2** or **E0**, the delivery time will change from "standard delivery time" to "delivery ex stock".

- <sup>1)</sup> Rated power based on the rated output current  $I_N$ .  
The rated output current  $I_N$  is based on the duty cycle for high overload (HO).
- <sup>2)</sup> The rated output current  $I_N$  is based on the duty cycle for high overload (HO). These current values apply at 400 V and are specified on the rating plate of the converter.

- <sup>3)</sup> The input current depends on the motor load and line impedance.  
The input currents apply for a load at rated power for a line impedance corresponding to  $u_K = 1\%$ .  
The current values are specified on the rating plate of the converter.
- <sup>4)</sup> Not suitable for UL applications (FSA and FSB). Not available for FSC.
- <sup>5)</sup> Plug-in connector at fieldbus communication AS-Interface not available.
- <sup>6)</sup> Plug-in connector at fieldbus communication AS-Interface cannot be ordered.

## Order overview

### SINAMICS G115D distributed drive system

#### SIMOGEAR geared motors for SINAMICS G115D wall-mounted/motor-mounted · Structure of the Article No.

#### Selection and ordering data

| SIMOGEAR geared motors for SINAMICS G115D wall-mounted/motor-mounted - Structure of the Article No.            |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
|----------------------------------------------------------------------------------------------------------------|---|---|---|---|-----|---|---|-----|-----|----|----|----|---|----|----|----|
| SIMOGEAR 2KJ8 geared motors                                                                                    |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| Data position in Article No.                                                                                   |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| 1                                                                                                              | 2 | 3 | 4 | 5 | 6   | 7 | - | 8   | 9   | 10 | 11 | 12 | - | 13 | 14 | 15 |
| 16                                                                                                             | - | Z |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| 2                                                                                                              | K | J | 8 |   |     |   |   |     |     |    |    |    |   |    |    |    |
| <b>Article No. supplements</b>                                                                                 |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| <b>Gearbox type, gearbox designation</b>                                                                       |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| Helical gearbox E, 1-stage                                                                                     |   |   |   | 0 |     |   |   |     |     |    |    |    |   |    |    |    |
| Helical gearbox Z, 2-stage                                                                                     |   |   |   | 1 |     |   |   |     |     |    |    |    |   |    |    |    |
| Helical gearbox D, 3-stage                                                                                     |   |   |   | 2 |     |   |   |     |     |    |    |    |   |    |    |    |
| Parallel shaft gearbox FZ, 2-stage                                                                             |   |   |   | 3 |     |   |   |     |     |    |    |    |   |    |    |    |
| Parallel shaft gearbox FD, 3-stage                                                                             |   |   |   | 4 |     |   |   |     |     |    |    |    |   |    |    |    |
| Bevel gearbox B/K, 2/3-stage                                                                                   |   |   |   | 5 |     |   |   |     |     |    |    |    |   |    |    |    |
| Helical worm gearbox C, 2-stage                                                                                |   |   |   | 6 |     |   |   |     |     |    |    |    |   |    |    |    |
| <b>Gearbox size</b>                                                                                            |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| See the Drive Technology Configurator (DT Configurator)                                                        |   |   |   | 0 | 0   |   |   |     |     |    |    |    |   |    |    |    |
| <a href="http://www.siemens.com/sinamics-g115d/configuration">www.siemens.com/sinamics-g115d/configuration</a> |   |   |   | 1 | ... |   |   |     |     |    |    |    |   |    |    |    |
|                                                                                                                |   |   |   | 4 | 8   |   |   |     |     |    |    |    |   |    |    |    |
| <b>Motor type acc. to CE/UL/CCC/KC/EAC</b>                                                                     |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| Asynchronous motor                                                                                             |   |   |   |   |     |   |   | 2   |     |    |    |    |   |    |    |    |
| Synchronous reluctance motor                                                                                   |   |   |   |   |     |   |   | 4   |     |    |    |    |   |    |    |    |
| <b>Motor shaft height</b>                                                                                      |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| Shaft height 71                                                                                                |   |   |   |   |     |   |   | C   |     |    |    |    |   |    |    |    |
| Shaft height 80                                                                                                |   |   |   |   |     |   |   | E   |     |    |    |    |   |    |    |    |
| Shaft height 90                                                                                                |   |   |   |   |     |   |   | G   |     |    |    |    |   |    |    |    |
| Shaft height 100                                                                                               |   |   |   |   |     |   |   | J   |     |    |    |    |   |    |    |    |
| Shaft height 112                                                                                               |   |   |   |   |     |   |   | L   |     |    |    |    |   |    |    |    |
| Shaft height 132                                                                                               |   |   |   |   |     |   |   | N   |     |    |    |    |   |    |    |    |
| <b>Motor rated power</b>                                                                                       |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| Rated power 1                                                                                                  |   |   |   |   |     |   |   | A   |     |    |    |    |   |    |    |    |
|                                                                                                                |   |   |   |   |     |   |   | B   |     |    |    |    |   |    |    |    |
| Rated power 2                                                                                                  |   |   |   |   |     |   |   | C   |     |    |    |    |   |    |    |    |
|                                                                                                                |   |   |   |   |     |   |   | F   |     |    |    |    |   |    |    |    |
| Rated power 3                                                                                                  |   |   |   |   |     |   |   | H   |     |    |    |    |   |    |    |    |
|                                                                                                                |   |   |   |   |     |   |   | N   |     |    |    |    |   |    |    |    |
| <b>Motor temperature sensor</b>                                                                                |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| Without temperature sensor                                                                                     |   |   |   |   |     |   |   | 0   |     |    |    |    |   |    |    |    |
| Pt1000 temperature sensor                                                                                      |   |   |   |   |     |   |   | 1   |     |    |    |    |   |    |    |    |
| <b>Motor brake</b>                                                                                             |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| Without motor brake                                                                                            |   |   |   |   |     |   |   | 0   |     |    |    |    |   |    |    |    |
| Motor brake                                                                                                    |   |   |   |   |     |   |   | 1   |     |    |    |    |   |    |    |    |
| <b>Mounting type / converter rated power</b>                                                                   |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| Wall-mounted / rated power 1                                                                                   |   |   |   |   |     |   |   | 0   |     |    |    |    |   |    |    |    |
| Wall-mounted / rated power 2                                                                                   |   |   |   |   |     |   |   | 1   |     |    |    |    |   |    |    |    |
| Wall-mounted / rated power 3                                                                                   |   |   |   |   |     |   |   | 2   |     |    |    |    |   |    |    |    |
| Motor-mounted / rated power 1                                                                                  |   |   |   |   |     |   |   | 3   |     |    |    |    |   |    |    |    |
| Motor-mounted / rated power 2                                                                                  |   |   |   |   |     |   |   | 4   |     |    |    |    |   |    |    |    |
| Motor-mounted / rated power 3                                                                                  |   |   |   |   |     |   |   | 5   |     |    |    |    |   |    |    |    |
| <b>Converter fieldbus communication</b>                                                                        |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| Geared motor for SINAMICS G115D wall-mounted                                                                   |   |   |   |   |     |   |   | A   |     |    |    |    |   |    |    |    |
| Without fieldbus communication, cable gland                                                                    |   |   |   |   |     |   |   | B   |     |    |    |    |   |    |    |    |
| Without fieldbus communication, plug-in connection                                                             |   |   |   |   |     |   |   | C   |     |    |    |    |   |    |    |    |
| AS-Interface, cable gland                                                                                      |   |   |   |   |     |   |   | D   |     |    |    |    |   |    |    |    |
| AS-Interface, plug-in connection                                                                               |   |   |   |   |     |   |   | E   |     |    |    |    |   |    |    |    |
| PROFINET, Ethernet/IP, cable gland                                                                             |   |   |   |   |     |   |   | F   |     |    |    |    |   |    |    |    |
| PROFINET, Ethernet/IP, plug-in connection                                                                      |   |   |   |   |     |   |   | G   |     |    |    |    |   |    |    |    |
| <b>Gearbox ratio</b>                                                                                           |   |   |   |   |     |   |   |     |     |    |    |    |   |    |    |    |
| See the Drive Technology Configurator (DT Configurator)                                                        |   |   |   |   |     |   |   | A   | 1   |    |    |    |   |    |    |    |
| <a href="http://www.siemens.com/sinamics-g115d/configuration">www.siemens.com/sinamics-g115d/configuration</a> |   |   |   |   |     |   |   | ... | ... |    |    |    |   |    |    |    |
|                                                                                                                |   |   |   |   |     |   |   | X   | 2   |    |    |    |   |    |    |    |

## Order overview

### SINAMICS G115D distributed drive system

#### Selection and ordering data

##### SIMOGEAR geared motors for SINAMICS G115D wall-mounted/motor-mounted - Structure of the Article No.

##### SIMOGEAR 2KJ8 geared motors

Data position in Article No.

1 2 3 4 5 6 7 - 8 9 10 11 12 - 13 14 15 16 - Z

2 K J 8 . . . - . . . . . - . . . . . - Z

##### Options with -Z and order code

##### Mounting position

##### Standard

|                                                |       |
|------------------------------------------------|-------|
| M1                                             | D 0 1 |
| M2                                             | D 0 2 |
| M3                                             | D 0 3 |
| M4                                             | D 0 4 |
| M5                                             | D 0 5 |
| M6                                             | D 0 6 |
| Permitted deviation from the mounting position | D 0 9 |

##### Universal mounting position output side A (DE)

|      |       |
|------|-------|
| M1-A | D 1 1 |
| M2-A | D 1 2 |
| M3-A | D 1 3 |
| M4-A | D 1 4 |
| M5-A | D 1 5 |
| M6-A | D 1 6 |

##### Universal mounting position output side B (NDE)

|      |       |
|------|-------|
| M1-B | D 2 1 |
| M2-B | D 2 2 |
| M3-B | D 2 3 |
| M4-B | D 2 4 |
| M5-B | D 2 5 |
| M6-B | D 2 6 |

Standard options for mandatory selection (e.g. the shaft designs) are displayed in the DT Configurator.

For commissioning in the TIA Portal, the selection of the mounting position (e.g. order code **D01**) is important for the specification of the direction of rotation of the output shaft.

## Order overview

### SINAMICS G115D distributed drive system

#### SIMOGEAR geared motors for SINAMICS G115D wall-mounted · Motor type asynchronous motors IE2/IE3

#### Selection and ordering data

**SIMOGEAR geared motors for SINAMICS G115D wall-mounted · Motor type asynchronous motors IE2/IE3 → Configuration converter** (see right page)

**P<sub>N</sub>**  
kW

**T<sub>N</sub>**  
Nm

**Motor**  
Asynchronous motor

Efficiency class

**cos φ**

**λ**

**Article No.**  
(Article No. supplement → see below)

##### Speed range 1:5 (300 ... 1500 rpm)

|      |       |           |                   |      |      |                            |
|------|-------|-----------|-------------------|------|------|----------------------------|
| 0.37 | 2.36  | LE71MB4E  | IE2               | 0.74 | 0.58 | 2KJ8 ■■■ -2CF ■■ -0A ■■ -Z |
| 0.55 | 3.50  | LE80MA4E  | IE2               | 0.76 | 0.64 | 2KJ8 ■■■ -2EA ■■ -0A ■■ -Z |
| 0.75 | 4.77  | LE80MB4P  | IE3               | 0.76 | 0.61 | 2KJ8 ■■■ -2EG ■■ -0A ■■ -Z |
| 1.1  | 7.00  | LE90S4P   | IE3               | 0.79 | 0.65 | 2KJ8 ■■■ -2GB ■■ -0A ■■ -Z |
| 1.5  | 9.55  | LE90L4P   | IE3 <sup>1)</sup> | 0.82 | 0.68 | 2KJ8 ■■■ -2GF ■■ -0A ■■ -Z |
| 2.2  | 14.00 | LE100LA4P | IE3               | 0.82 | 0.70 | 2KJ8 ■■■ -2JB ■■ -0A ■■ -Z |
| 3.0  | 19.10 | LE100LB4P | IE3               | 0.83 | 0.70 | 2KJ8 ■■■ -2JG ■■ -0A ■■ -Z |
| 4.0  | 25.46 | LE112MC4P | IE3               | 0.83 | 0.70 | 2KJ8 ■■■ -2LB ■■ -0A ■■ -Z |
| 5.5  | 35.00 | LE132S4P  | IE3               | 0.84 | 0.72 | 2KJ8 ■■■ -2NA ■■ -0A ■■ -Z |
| 7.5  | 47.75 | LE132M4P  | IE3               | 0.84 | 0.71 | 2KJ8 ■■■ -2NF ■■ -0A ■■ -Z |

##### Speed range 1:10 (300 ... 3000 rpm)

|      |                |           |     |                |                |                            |
|------|----------------|-----------|-----|----------------|----------------|----------------------------|
| 0.55 | 1.75           | LE71MB4E  | IE2 | 0.68           | 0.54           | 2KJ8 ■■■ -2CF ■■ -1A ■■ -Z |
| 0.75 | 2.36           | LE80MA4E  | IE2 | 0.70           | 0.57           | 2KJ8 ■■■ -2EA ■■ -1A ■■ -Z |
| 1.1  | 3.50           | LE80MB4P  | IE3 | 0.73           | 0.57           | 2KJ8 ■■■ -2EG ■■ -1A ■■ -Z |
| 1.5  | 4.77           | LE90S4P   | IE3 | 0.75           | 0.62           | 2KJ8 ■■■ -2GB ■■ -1A ■■ -Z |
| 2.2  | 7.00           | LE90L4P   | IE3 | 0.79           | 0.67           | 2KJ8 ■■■ -2GF ■■ -1A ■■ -Z |
| 3.0  | 9.55           | LE100LA4P | IE3 | 0.80           | 0.69           | 2KJ8 ■■■ -2JB ■■ -1A ■■ -Z |
| 4.0  | 12.73          | LE100LB4P | IE3 | 0.80           | 0.69           | 2KJ8 ■■■ -2JG ■■ -1A ■■ -Z |
| 5.5  | 17.50          | LE112MC4P | IE3 | 0.81           | 0.70           | 2KJ8 ■■■ -2LB ■■ -1A ■■ -Z |
| 7.5  | available soon | LE132S4P  | IE3 | available soon | available soon | 2KJ8 ■■■ -2NA ■■ -1A ■■ -Z |

##### Speed range 1:8.7 (300 ... 2610 rpm)

|      |       |           |     |      |      |                            |
|------|-------|-----------|-----|------|------|----------------------------|
| 0.64 | 2.36  | LE71MB4E  | IE2 | 0.67 | 0.54 | 2KJ8 ■■■ -2CF ■■ -2A ■■ -Z |
| 0.95 | 3.50  | LE80MA4E  | IE2 | 0.70 | 0.58 | 2KJ8 ■■■ -2EA ■■ -2A ■■ -Z |
| 1.30 | 4.77  | LE80MB4P  | IE3 | 0.73 | 0.60 | 2KJ8 ■■■ -2EG ■■ -2A ■■ -Z |
| 1.90 | 7.00  | LE90S4P   | IE3 | 0.76 | 0.63 | 2KJ8 ■■■ -2GB ■■ -2A ■■ -Z |
| 2.60 | 9.55  | LE90L4P   | IE3 | 0.79 | 0.67 | 2KJ8 ■■■ -2GF ■■ -2A ■■ -Z |
| 3.81 | 14.00 | LE100LA4P | IE3 | 0.82 | 0.70 | 2KJ8 ■■■ -2JB ■■ -2A ■■ -Z |
| 5.20 | 19.10 | LE100LB4P | IE3 | 0.81 | 0.68 | 2KJ8 ■■■ -2JG ■■ -2A ■■ -Z |
| 6.93 | 25.46 | LE112MC4P | IE3 | 0.81 | 0.69 | 2KJ8 ■■■ -2LB ■■ -2A ■■ -Z |

#### Article No. supplements

##### Gearbox type

Helical gearbox E, 1-stage

Helical gearbox Z, 2-stage

Helical gearbox D, 3-stage

Parallel shaft gearbox FZ, 2-stage

Parallel shaft gearbox FD, 3-stage

Bevel gearbox B/K, 2/3-stage

Helical worm gearbox C, 2-stage

0  
1  
2  
3  
4  
5  
6

##### Gearbox size

See the Drive Technology Configurator (DT Configurator):  
[www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

0 0  
1 ...  
4 8

##### Temperature sensor

with Pt1000

without

1  
0

##### Brake

with

without

1  
0

##### Geared motor transmission ratio

See the Drive Technology Configurator (DT Configurator):  
[www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

A1  
...  
X2

#### Special versions

##### Necessary ordering data:

- Mounting position (order codes **D01** to **D26**) for the specification of the direction of rotation of the output shaft
- Configuration of the output shaft (order codes **H31** to **H67**)
- Configuration of the mounting type (order codes **H71** to **H76**)
- Configuration of the connection type of the converter (order codes **V01** to **V81**). Selection of the special versions, see the Drive Technology Configurator (DT Configurator): [www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

#### Order codes

...+...+...+...

<sup>1)</sup> The asynchronous motor for the SIMOGEAR geared motors (frame size FS 90, 1.50 kW, designed for 50 Hz operation) fulfills the class IE3 according to IEC 60034-30-1: 2014.

# Order overview

## SINAMICS G115D distributed drive system

**SINAMICS G115D converters wall-mounted →** (Configuration with motor type synchronous reluctance motors, see next double page)

| $P_N$<br>kW                                 | hp   | Rated input current<br>A | Rated output current $I_N$<br>A | Converter size<br>(frame size) | Article No.         |
|---------------------------------------------|------|--------------------------|---------------------------------|--------------------------------|---------------------|
| <b>Speed range 1:5 (300 ... 1500 rpm)</b>   |      |                          |                                 |                                |                     |
| 0.37                                        | 0.50 | 1.23                     | 1.3                             | FSA                            | 6SL352 - - X 0-3A 0 |
| 0.55                                        | 0.75 | 1.58                     | 1.7                             | FSA                            | 6SL352 - - X 0-5A 0 |
| 0.75                                        | 1.0  | 1.99                     | 2.2                             | FSA                            | 6SL352 - - X 0-7A 0 |
| 1.1                                         | 1.5  | 2.69                     | 3.1                             | FSA                            | 6SL352 - - X 1-1A 0 |
| 1.5                                         | 2.0  | 3.48                     | 4.1                             | FSA                            | 6SL352 - - X 1-5A 0 |
| 2.2                                         | 3.0  | 5.18                     | 5.9                             | FSB                            | 6SL352 - - X 2-2A 0 |
| 3.0                                         | 4.0  | 6.76                     | 7.7                             | FSB                            | 6SL352 - - X 3-0A 0 |
| 4.0                                         | 5.0  | 8.95                     | 10.2                            | FSB                            | 6SL352 - - X 4-0A 0 |
| 5.5                                         | 7.5  | 11.88                    | 13.2                            | FSC                            | 6SL352 - - X 5-5A 0 |
| 7.5                                         | 10   | 17.11                    | 19                              | FSC                            | 6SL352 - - X 7-5A 0 |
| <b>Speed range 1:10 (300 ... 3000 rpm)</b>  |      |                          |                                 |                                |                     |
| 0.55                                        | 0.75 | 1.58                     | 1.7                             | FSA                            | 6SL352 - - X 0-5A 0 |
| 0.75                                        | 1.0  | 1.99                     | 2.2                             | FSA                            | 6SL352 - - X 0-7A 0 |
| 1.1                                         | 1.5  | 2.69                     | 3.1                             | FSA                            | 6SL352 - - X 1-1A 0 |
| 1.5                                         | 2.0  | 3.48                     | 4.1                             | FSA                            | 6SL352 - - X 1-5A 0 |
| 2.2                                         | 3.0  | 5.18                     | 5.9                             | FSB                            | 6SL352 - - X 2-2A 0 |
| 3.0                                         | 4.0  | 6.76                     | 7.7                             | FSB                            | 6SL352 - - X 3-0A 0 |
| 4.0                                         | 5.0  | 8.95                     | 10.2                            | FSB                            | 6SL352 - - X 4-0A 0 |
| 5.5                                         | 7.5  | 11.88                    | 13.2                            | FSC                            | 6SL352 - - X 5-5A 0 |
| 7.5                                         | 10   | 17.11                    | 19                              | FSC                            | 6SL352 - - X 7-5A 0 |
| <b>Speed range 1:8.7 (300 ... 2610 rpm)</b> |      |                          |                                 |                                |                     |
| 0.75                                        | 1.0  | 1.99                     | 2.2                             | FSA                            | 6SL352 - - X 0-7A 0 |
| 1.1                                         | 1.5  | 2.69                     | 3.1                             | FSA                            | 6SL352 - - X 1-1A 0 |
| 1.5                                         | 2.0  | 3.48                     | 4.1                             | FSA                            | 6SL352 - - X 1-5A 0 |
| 2.2                                         | 3.0  | 5.18                     | 5.9                             | FSB                            | 6SL352 - - X 2-2A 0 |
| 3.0                                         | 4.0  | 6.76                     | 7.7                             | FSB                            | 6SL352 - - X 3-0A 0 |
| 4.0                                         | 5.0  | 8.95                     | 10.2                            | FSB                            | 6SL352 - - X 4-0A 0 |
| 5.5                                         | 7.5  | 11.88                    | 13.2                            | FSC                            | 6SL352 - - X 5-5A 0 |
| 7.5                                         | 10   | 17.11                    | 19                              | FSC                            | 6SL352 - - X 7-5A 0 |

### Article No. supplements

#### Brake voltage

180 V DC \*)

400 V AC

#### Operating options

Without operating option \*)

Repair switch

Local remote control

Repair switch and local remote control

| Connection type                        | Fieldbus communication | I/O | Motor           | 400 V AC | 24 V DC                      |     |
|----------------------------------------|------------------------|-----|-----------------|----------|------------------------------|-----|
| Cable gland with daisy chain           | without                |     | Cable gland *)  |          | Power supply unit integrated | A 0 |
|                                        |                        |     |                 |          |                              | H 0 |
|                                        |                        |     |                 |          |                              | A 2 |
|                                        | M12                    |     | M12 Cable gland |          | Power supply unit integrated | A 6 |
|                                        |                        |     |                 |          |                              | H 2 |
|                                        |                        |     |                 |          |                              | H 6 |
| Plug-in connection without daisy chain | M12                    | M12 | Q8/0            | Q4/2     | 7/8" <sup>2)</sup>           | B 0 |
|                                        |                        |     |                 |          | Power M12 <sup>3)</sup>      | B 4 |
|                                        |                        |     |                 |          | Quickon <sup>1)</sup>        | C 0 |
|                                        |                        |     |                 |          | MQ15 <sup>1)</sup>           | D 0 |
|                                        |                        |     |                 |          | Power supply unit integrated | K 0 |
|                                        |                        |     |                 |          | Quickon <sup>1)</sup>        | L 0 |
| Plug-in connection with daisy chain    | M12                    | M12 | Q8/0            | 2 × Q4/2 | 2 × 7/8" *) <sup>2)</sup>    | E 0 |
|                                        |                        |     |                 |          | 2 × Power M12 <sup>3)</sup>  | E 4 |
|                                        |                        |     |                 |          | Power supply unit integrated | N 0 |
|                                        |                        |     |                 |          |                              |     |

### Converter fieldbus communication

AS-Interface

Without fieldbus communication

PROFINET, EtherNet/IP

\* If you select "Brake voltage 180 V DC" and "Without operating option" in combination with one of the connection types **A0**, **A2** or **E0**, the delivery time will change from **"standard delivery time"** to **"delivery ex stock"**.

<sup>1)</sup> Not suitable for UL applications (FSA and FSB). Not available for FSC.

<sup>2)</sup> Plug-in connector with fieldbus communication AS-Interface not available.

<sup>3)</sup> Plug-in connector with fieldbus communication AS-Interface cannot be ordered.

## Order overview

### SINAMICS G115D distributed drive system

#### SIMOGEAR geared motors for SINAMICS G115D wall-mounted · Motor type synchronous reluctance motors IE4

#### Selection and ordering data

##### SIMOGEAR geared motors for SINAMICS G115D wall-mounted · Motor type synchronous reluctance motors IE4

→ Configuration converter (see right page)

| $P_N$<br>kW | $T_N$<br>Nm | Motor<br>Synchronous reluctance motor | Efficiency class | $\cos \phi$ | Article No.<br>(Article No. supplement → see below) |
|-------------|-------------|---------------------------------------|------------------|-------------|-----------------------------------------------------|
|-------------|-------------|---------------------------------------|------------------|-------------|-----------------------------------------------------|

##### Speed range 1:5 (300 ... 1500 rpm)

|      |       |           |     |      |                            |
|------|-------|-----------|-----|------|----------------------------|
| 0.55 | 3.50  | LE80MA4S  | IE4 | 0.64 | 2KJ8 ■■■ -4EC ■■ -0A ■■ -Z |
| 0.75 | 4.77  | LE80MB4S  | IE4 | 0.63 | 2KJ8 ■■■ -4EH ■■ -0A ■■ -Z |
| 1.1  | 7.00  | LE90S4S   | IE4 | 0.66 | 2KJ8 ■■■ -4GC ■■ -0A ■■ -Z |
| 1.5  | 9.55  | LE90L4S   | IE4 | 0.65 | 2KJ8 ■■■ -4GH ■■ -0A ■■ -Z |
| 2.2  | 14.00 | LE112MA4S | IE4 | 0.69 | 2KJ8 ■■■ -4LC ■■ -0A ■■ -Z |
| 3.0  | 19.10 | LE112MB4S | IE4 | 0.69 | 2KJ8 ■■■ -4LH ■■ -0A ■■ -Z |
| 4.0  | 25.46 | LE112MC4S | IE4 | 0.70 | 2KJ8 ■■■ -4LN ■■ -0A ■■ -Z |

##### Speed range 1:10 (300 ... 3000 rpm)

|      |       |           |     |      |                            |
|------|-------|-----------|-----|------|----------------------------|
| 0.75 | 2.36  | LE80MA4S  | IE4 | 0.59 | 2KJ8 ■■■ -4EC ■■ -1A ■■ -Z |
| 1.1  | 3.50  | LE80MB4S  | IE4 | 0.61 | 2KJ8 ■■■ -4EH ■■ -1A ■■ -Z |
| 1.5  | 4.77  | LE90S4S   | IE4 | 0.62 | 2KJ8 ■■■ -4GC ■■ -1A ■■ -Z |
| 2.2  | 7.00  | LE90L4S   | IE4 | 0.64 | 2KJ8 ■■■ -4GH ■■ -1A ■■ -Z |
| 3.0  | 9.55  | LE112MA4S | IE4 | 0.66 | 2KJ8 ■■■ -4LC ■■ -1A ■■ -Z |
| 4.0  | 12.73 | LE112MB4S | IE4 | 0.67 | 2KJ8 ■■■ -4LH ■■ -1A ■■ -Z |

##### Speed range 1:8.7 (300 ... 2610 rpm)

|      |       |           |     |      |                            |
|------|-------|-----------|-----|------|----------------------------|
| 0.95 | 3.50  | LE80MA4S  | IE4 | 0.61 | 2KJ8 ■■■ -4EC ■■ -2A ■■ -Z |
| 1.30 | 4.77  | LE80MB4S  | IE4 | 0.61 | 2KJ8 ■■■ -4EH ■■ -2A ■■ -Z |
| 1.90 | 7.00  | LE90S4S   | IE4 | 0.64 | 2KJ8 ■■■ -4GC ■■ -2A ■■ -Z |
| 2.60 | 9.55  | LE90L4S   | IE4 | 0.64 | 2KJ8 ■■■ -4GH ■■ -2A ■■ -Z |
| 3.81 | 14.00 | LE112MA4S | IE4 | 0.68 | 2KJ8 ■■■ -4LC ■■ -2A ■■ -Z |

##### Article No. supplements

###### Gearbox type

Helical gearbox E, 1-stage  
Helical gearbox Z, 2-stage  
Helical gearbox D, 3-stage  
Parallel shaft gearbox FZ, 2-stage  
Parallel shaft gearbox FD, 3-stage  
Bevel gearbox B/K, 2/3-stage  
Helical worm gearbox C, 2-stage

0  
1  
2  
3  
4  
5  
6

###### Gearbox size

See the Drive Technology Configurator (DT Configurator):  
[www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

0 0  
1 ...  
4 8

###### Temperature sensor

with Pt1000  
without

1  
0

###### Brake

with  
without

1  
0

###### Geared motor transmission ratio

See the Drive Technology Configurator (DT Configurator):  
[www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

A1  
...  
X2

###### Special versions

###### Necessary ordering data:

- Mounting position (order codes **D01** to **D26**) for the specification of the direction of rotation of the output shaft
- Configuration of the output shaft (order codes **H31** to **H67**)
- Configuration of the mounting type (order codes **H71** to **H76**)
- Configuration of the connection type of the converter (order codes **V01** to **V81**). Selection of the special versions, see the Drive Technology Configurator (DT Configurator): [www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

Order codes

...+...+...+...

## Order overview

### SINAMICS G115D distributed drive system

#### SINAMICS G115D converters wall-mounted

→ (Configuration with motor type asynchronous motors, see preceding double page)

| $P_N$<br>kW                                 | hp   | Rated input current<br>A | Rated output current $I_N$<br>A | Converter size<br>(frame size) | Article No.         |
|---------------------------------------------|------|--------------------------|---------------------------------|--------------------------------|---------------------|
| <b>Speed range 1:5 (300 ... 1500 rpm)</b>   |      |                          |                                 |                                |                     |
| 0.55                                        | 0.75 | 1.58                     | 1.7                             | FSA                            | 6SL352 - - X 0-5A 0 |
| 0.75                                        | 1.0  | 1.99                     | 2.2                             | FSA                            | 6SL352 - - X 0-7A 0 |
| 1.1                                         | 1.5  | 2.69                     | 3.1                             | FSA                            | 6SL352 - - X 1-1A 0 |
| 1.5                                         | 2.0  | 3.48                     | 4.1                             | FSA                            | 6SL352 - - X 1-5A 0 |
| 2.2                                         | 3.0  | 5.18                     | 5.9                             | FSB                            | 6SL352 - - X 2-2A 0 |
| 3.0                                         | 4.0  | 6.76                     | 7.7                             | FSB                            | 6SL352 - - X 3-0A 0 |
| 4.0                                         | 5.0  | 8.95                     | 10.2                            | FSB                            | 6SL352 - - X 4-0A 0 |
| <b>Speed range 1:10 (300 ... 3000 rpm)</b>  |      |                          |                                 |                                |                     |
| 0.75                                        | 1.0  | 1.99                     | 2.2                             | FSA                            | 6SL352 - - X 0-7A 0 |
| 1.1                                         | 1.5  | 2.69                     | 3.1                             | FSA                            | 6SL352 - - X 1-1A 0 |
| 1.5                                         | 2.0  | 3.48                     | 4.1                             | FSA                            | 6SL352 - - X 1-5A 0 |
| 2.2                                         | 3.0  | 5.18                     | 5.9                             | FSB                            | 6SL352 - - X 2-2A 0 |
| 3.0                                         | 4.0  | 6.76                     | 7.7                             | FSB                            | 6SL352 - - X 3-0A 0 |
| 4.0                                         | 5.0  | 8.95                     | 10.2                            | FSB                            | 6SL352 - - X 4-0A 0 |
| <b>Speed range 1:8.7 (300 ... 2610 rpm)</b> |      |                          |                                 |                                |                     |
| 1.1                                         | 1.5  | 2.69                     | 3.1                             | FSA                            | 6SL352 - - X 1-1A 0 |
| 1.5                                         | 2.0  | 3.48                     | 4.1                             | FSA                            | 6SL352 - - X 1-5A 0 |
| 2.2                                         | 3.0  | 5.18                     | 5.9                             | FSB                            | 6SL352 - - X 2-2A 0 |
| 3.0                                         | 4.0  | 6.76                     | 7.7                             | FSB                            | 6SL352 - - X 3-0A 0 |
| 4.0                                         | 5.0  | 8.95                     | 10.2                            | FSB                            | 6SL352 - - X 4-0A 0 |

#### Article No. supplements

##### Brake voltage

180 V DC \*)

400 V AC

0  
1

##### Operating options

Without operating option \*)

Repair switch

Local remote control

Repair switch and local remote control

0  
1  
2  
3

| Connection type                        | Fieldbus communication | I/O | Motor                        | 400 V AC | 24 V DC                      |     |
|----------------------------------------|------------------------|-----|------------------------------|----------|------------------------------|-----|
| Cable gland with daisy chain           | without                |     | Cable gland *)               |          |                              | A 0 |
|                                        |                        |     | Power supply unit integrated |          |                              | H 0 |
|                                        | M12                    |     | Cable gland *)               |          |                              | A 2 |
|                                        |                        |     | M12 Cable gland              |          |                              | A 6 |
|                                        |                        |     | Power supply unit integrated |          |                              | H 2 |
|                                        |                        |     | Power supply unit integrated |          |                              | H 6 |
| Plug-in connection without daisy chain | M12                    | M12 | Q8/0                         | Q4/2     | 7/8* 2)                      | B 0 |
|                                        |                        |     |                              |          | Power M12 3)                 | B 4 |
|                                        |                        |     |                              |          | Quickon 1)                   | C 0 |
|                                        |                        |     |                              |          | MQ15 1)                      | D 0 |
|                                        |                        |     |                              |          | Power M12 2)                 | D 0 |
|                                        |                        |     |                              |          | Power supply unit integrated | K 0 |
|                                        |                        |     |                              |          | Power supply unit integrated | L 0 |
| Plug-in connection with daisy chain    | M12                    | M12 | Q8/0                         | 2 × Q4/2 | 2 × 7/8* *) 2)               | E 0 |
|                                        |                        |     |                              |          | 2 × Power M12 3)             | E 4 |
|                                        |                        |     |                              |          | Power supply unit integrated | N 0 |
|                                        |                        |     |                              |          |                              |     |

#### Fieldbus communication

AS-Interface

Without fieldbus communication

PROFINET, EtherNet/IP

A  
B  
F

\* If you select "Brake voltage 180 V DC" and "Without operating option" in combination with one of the connection types **A0**, **A2** or **E0**, the delivery time will change from "standard delivery time" to "delivery ex stock".

1) Not suitable for UL applications (FSA and FSB). Not available for FSC.

2) Plug-in connector with fieldbus communication AS-Interface not available.

3) Plug-in connector with fieldbus communication AS-Interface cannot be ordered.

## Order overview

### SINAMICS G115D distributed drive system

#### SIMOGEAR geared motors with SINAMICS G115D motor-mounted · Motor type asynchronous motors IE2/IE3

#### Selection and ordering data

##### SIMOGEAR geared motors with SINAMICS G115D motor-mounted · Motor type asynchronous motors IE2/IE3

→ Configuration motor type synchronous reluctance motors (see right page)

| $P_N$<br>kW                                 | $T_N$<br>Nm | $I_N$<br>A | $\cos \phi$<br>Nm | $\lambda$ | Motor size<br>Asyn-<br>chro-<br>nous motor | Efficiency<br>class | Converter<br>size<br>(frame size) | Article No.<br>(Article No. supplement → see below) |
|---------------------------------------------|-------------|------------|-------------------|-----------|--------------------------------------------|---------------------|-----------------------------------|-----------------------------------------------------|
| <b>Speed range 1:5 (300 ... 1500 rpm)</b>   |             |            |                   |           |                                            |                     |                                   |                                                     |
| 0.37                                        | 2.36        | 0.97       | 0.74              | 0.58      | LE71MB4E                                   | IE2                 | FSA                               | 2KJ8 ■■■ -2CF ■■ -3 ■■■ -Z                          |
| 0.55                                        | 3.50        | 1.29       | 0.76              | 0.64      | LE80MA4E                                   | IE2                 | FSA                               | 2KJ8 ■■■ -2EA ■■ -3 ■■■ -Z                          |
| 0.75                                        | 4.77        | 1.64       | 0.76              | 0.61      | LE80MB4P                                   | IE3                 | FSA                               | 2KJ8 ■■■ -2EG ■■ -3 ■■■ -Z                          |
| 1.1                                         | 7.00        | 2.30       | 0.79              | 0.65      | LE90S4P                                    | IE3                 | FSA                               | 2KJ8 ■■■ -2GB ■■ -3 ■■■ -Z                          |
| 1.5                                         | 9.55        | 3.00       | 0.82              | 0.68      | LE90L4P                                    | IE3                 | FSA                               | 2KJ8 ■■■ -2GF ■■ -3 ■■■ -Z                          |
| 2.2                                         | 14.00       | 4.66       | 0.82              | 0.70      | LE100LA4P                                  | IE3                 | FSA                               | 2KJ8 ■■■ -2JB ■■ -3 ■■■ -Z                          |
| 3.0                                         | 19.10       | 6.31       | 0.83              | 0.70      | LE100LB4P                                  | IE3                 | FSA                               | 2KJ8 ■■■ -2JG ■■ -3 ■■■ -Z                          |
| 4.0                                         | 25.00       | 8.09       | 0.83              | 0.70      | LE112MC4P                                  | IE3                 | FSA                               | 2KJ8 ■■■ -2LB ■■ -3 ■■■ -Z                          |
| <b>Speed range 1:10 (300 ... 3000 rpm)</b>  |             |            |                   |           |                                            |                     |                                   |                                                     |
| 0.55                                        | 1.75        | 1.29       | 0.68              | 0.54      | LE71MB4E                                   | IE2                 | FSA                               | 2KJ8 ■■■ -2CF ■■ -4 ■■■ -Z                          |
| 0.75                                        | 2.36        | 1.67       | 0.70              | 0.57      | LE80MA4E                                   | IE2                 | FSA                               | 2KJ8 ■■■ -2EA ■■ -4 ■■■ -Z                          |
| 1.1                                         | 3.50        | 2.34       | 0.73              | 0.57      | LE80MB4P                                   | IE3                 | FSA                               | 2KJ8 ■■■ -2EG ■■ -4 ■■■ -Z                          |
| 1.5                                         | 4.77        | 2.93       | 0.75              | 0.62      | LE90S4P                                    | IE3                 | FSA                               | 2KJ8 ■■■ -2GB ■■ -4 ■■■ -Z                          |
| 2.2                                         | 7.00        | 4.14       | 0.79              | 0.67      | LE90L4P                                    | IE3                 | FSB                               | 2KJ8 ■■■ -2GF ■■ -4 ■■■ -Z                          |
| 3.0                                         | 9.55        | 6.47       | 0.80              | 0.69      | LE100LA4P                                  | IE3                 | FSB                               | 2KJ8 ■■■ -2JB ■■ -4 ■■■ -Z                          |
| 4.0                                         | 12.73       | 8.29       | 0.80              | 0.69      | LE100LB4P                                  | IE3                 | FSB                               | 2KJ8 ■■■ -2JG ■■ -4 ■■■ -Z                          |
| <b>Speed range 1:8.7 (300 ... 2610 rpm)</b> |             |            |                   |           |                                            |                     |                                   |                                                     |
| 0.64                                        | 2.36        | 1.49       | 0.67              | 0.54      | LE71MB4E                                   | IE2                 | FSA                               | 2KJ8 ■■■ -2CF ■■ -5 ■■■ -Z                          |
| 0.95                                        | 3.50        | 2.08       | 0.70              | 0.58      | LE80MA4E                                   | IE2                 | FSA                               | 2KJ8 ■■■ -2EA ■■ -5 ■■■ -Z                          |
| 1.30                                        | 4.77        | 2.73       | 0.73              | 0.60      | LE80MB4P                                   | IE3                 | FSA                               | 2KJ8 ■■■ -2EG ■■ -5 ■■■ -Z                          |
| 1.90                                        | 7.00        | 3.62       | 0.76              | 0.63      | LE90S4P                                    | IE3                 | FSB                               | 2KJ8 ■■■ -2GB ■■ -5 ■■■ -Z                          |
| 2.60                                        | 9.55        | 4.82       | 0.79              | 0.67      | LE90L4P                                    | IE3                 | FSB                               | 2KJ8 ■■■ -2GF ■■ -5 ■■■ -Z                          |
| 3.81                                        | 14.00       | 8.14       | 0.82              | 0.70      | LE100LA4P                                  | IE3                 | FSB                               | 2KJ8 ■■■ -2JB ■■ -5 ■■■ -Z                          |

#### Article No. supplements

##### Gearbox type

Helical gearbox E, 1-stage  
Helical gearbox Z, 2-stage  
Helical gearbox D, 3-stage  
Parallel shaft gearbox FZ, 2-stage  
Parallel shaft gearbox FD, 3-stage  
Bevel gearbox B/K, 2/3-stage  
Helical worm gearbox C, 2-stage

0  
1  
2  
3  
4  
5  
6

##### Gearbox size

See the Drive Technology Configurator (DT Configurator):  
[www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

0 0  
1 ...  
4 8

##### Temperature sensor

with Pt1000  
without

1  
0

##### Brake

with  
without

1  
0

##### Converter fieldbus communication

Without fieldbus communication, cable gland  
Without fieldbus communication, plug-in connection  
AS-Interface, cable gland  
AS-Interface, plug-in connection  
PROFINET, Ethernet/IP, cable gland  
PROFINET, Ethernet/IP, plug-in connection

B  
C  
D  
E  
F  
G

##### Geared motor transmission ratio

See the Drive Technology Configurator (DT Configurator):  
[www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

A1  
...  
X2

##### Special versions

##### Necessary ordering data:

- Mounting position (order codes **D01** to **D26**) for the specification of the direction of rotation of the output shaft
- Configuration of the output shaft (order codes **H31** to **H67**)
- Configuration of the mounting type (order codes **H71** to **H76**)
- Configuration of the connection type of the converter (order codes **V01** to **V81**). Selection of the special versions, see the Drive Technology Configurator (DT Configurator): [www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

Order codes

...+...+...+...

## SIMOGEAR geared motors with SINAMICS G115D motor-mounted · Motor type synchronous reluctance motors IE4

## Selection and ordering data

**SIMOGEAR geared motors with SINAMICS G115D motor-mounted · Motor type synchronous reluctance motors IE4**  
 → Configuration motor type asynchronous motors (see left page)

| $P_N$<br>kW                                 | $T_N$<br>Nm | $I_N$<br>A | $\cos \phi$<br>Nm | Motor size<br>Synchronous<br>reluctance<br>motor | Efficiency<br>class | Converter<br>size<br>(frame size) | Article No.<br>(Article No. supplement → see below) |
|---------------------------------------------|-------------|------------|-------------------|--------------------------------------------------|---------------------|-----------------------------------|-----------------------------------------------------|
| <b>Speed range 1:5 (300 ... 1500 rpm)</b>   |             |            |                   |                                                  |                     |                                   |                                                     |
| 0.55                                        | 3.50        | 1.64       | 0.635             | LE80MA4S                                         | IE4                 | FSA                               | 2KJ8 ■■■ -4EC ■■ -3 ■■■ -Z                          |
| 0.75                                        | 4.77        | 2.02       | 0.634             | LE80MB4S                                         | IE4                 | FSA                               | 2KJ8 ■■■ -4EH ■■ -3 ■■■ -Z                          |
| 1.1                                         | 7.00        | 2.15       | 0.661             | LE90S4S                                          | IE4                 | FSA                               | 2KJ8 ■■■ -4GC ■■ -3 ■■■ -Z                          |
| 1.5                                         | 9.55        | 2.83       | 0.653             | LE90L4S                                          | IE4                 | FSA                               | 2KJ8 ■■■ -4GH ■■ -3 ■■■ -Z                          |
| 2.2                                         | 14.00       | 4.37       | 0.687             | LE112MA4S                                        | IE4                 | FSB                               | 2KJ8 ■■■ -4LC ■■ -3 ■■■ -Z                          |
| 3.0                                         | 19.10       | 5.80       | 0.691             | LE112MB4S                                        | IE4                 | FSB                               | 2KJ8 ■■■ -4LH ■■ -3 ■■■ -Z                          |
| 4.0                                         | 25.46       | 7.01       | 0.702             | LE112MC4S                                        | IE4                 | FSB                               | 2KJ8 ■■■ -4LN ■■ -3 ■■■ -Z                          |
| <b>Speed range 1:10 (300 ... 3000 rpm)</b>  |             |            |                   |                                                  |                     |                                   |                                                     |
| 0.75                                        | 2.36        | 1.77       | 0.586             | LE80MA4S                                         | IE4                 | FSA                               | 2KJ8 ■■■ -4EC ■■ -4 ■■■ -Z                          |
| 1.1                                         | 3.50        | 2.20       | 0.606             | LE80MB4S                                         | IE4                 | FSA                               | 2KJ8 ■■■ -4EH ■■ -4 ■■■ -Z                          |
| 1.5                                         | 4.77        | 2.73       | 0.622             | LE90S4S                                          | IE4                 | FSA                               | 2KJ8 ■■■ -4GC ■■ -4 ■■■ -Z                          |
| 2.2                                         | 7.00        | 4.24       | 0.635             | LE90L4S                                          | IE4                 | FSB                               | 2KJ8 ■■■ -4GH ■■ -4 ■■■ -Z                          |
| 3.0                                         | 9.55        | 5.13       | 0.662             | LE112MA4S                                        | IE4                 | FSB                               | 2KJ8 ■■■ -4LC ■■ -4 ■■■ -Z                          |
| 4.0                                         | 12.73       | 6.71       | 0.674             | LE112MB4S                                        | IE4                 | FSB                               | 2KJ8 ■■■ -4LH ■■ -4 ■■■ -Z                          |
| <b>Speed range 1:8.7 (300 ... 2610 rpm)</b> |             |            |                   |                                                  |                     |                                   |                                                     |
| 0.95                                        | 3.50        | 1.94       | 0.611             | LE80MA4S                                         | IE4                 | FSA                               | 2KJ8 ■■■ -4EC ■■ -5 ■■■ -Z                          |
| 1.30                                        | 4.77        | 2.39       | 0.613             | LE80MB4S                                         | IE4                 | FSA                               | 2KJ8 ■■■ -4EH ■■ -5 ■■■ -Z                          |
| 1.91                                        | 7.00        | 3.37       | 0.644             | LE90S4S                                          | IE4                 | FSB                               | 2KJ8 ■■■ -4GC ■■ -5 ■■■ -Z                          |
| 2.60                                        | 9.55        | 4.87       | 0.637             | LE90L4S                                          | IE4                 | FSB                               | 2KJ8 ■■■ -4GH ■■ -5 ■■■ -Z                          |
| 3.81                                        | 14.00       | 6.32       | 0.676             | LE112MA4S                                        | IE4                 | FSB                               | 2KJ8 ■■■ -4LC ■■ -5 ■■■ -Z                          |

## Article No. supplements

## Gearbox type

Helical gearbox E, 1-stage  
 Helical gearbox Z, 2-stage  
 Helical gearbox D, 3-stage  
 Parallel shaft gearbox FZ, 2-stage  
 Parallel shaft gearbox FD, 3-stage  
 Bevel gearbox B/K, 2/3-stage  
 Helical worm gearbox C, 2-stage

0  
1  
2  
3  
4  
5  
6

## Gearbox size

See the Drive Technology Configurator (DT Configurator):  
[www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

0 0  
1 ...  
4 8

## Temperature sensor

with Pt1000  
 without

1  
0

## Brake

with  
 without

1  
0

## Converter fieldbus communication

Without fieldbus communication, cable gland  
 Without fieldbus communication, plug-in connection  
 AS-Interface, cable gland  
 AS-Interface, plug-in connection  
 PROFINET, Ethernet/IP, cable gland  
 PROFINET, Ethernet/IP, plug-in connection

B  
C  
D  
E  
F  
G

## Geared motor transmission ratio

See the Drive Technology Configurator (DT Configurator):  
[www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

A1  
...  
X2

## Special versions

## Necessary ordering data:

- Mounting position (order codes **D01** to **D26**) for the specification of the direction of rotation of the output shaft
- Configuration of the output shaft (order codes **H31** to **H67**)
- Configuration of the mounting type (order codes **H71** to **H76**)
- Configuration of the connection type of the converter (order codes **V01** to **V81**). Selection of the special versions, see the Drive Technology Configurator (DT Configurator): [www.siemens.com/sinamics-g115d/configuration](http://www.siemens.com/sinamics-g115d/configuration)

## Order codes

...+...+...+...

## Order overview

### SINAMICS G115D distributed drive system

#### SIMOGEAR geared motors with SINAMICS G115D motor mounted > Converter options

#### Options

Various connection types as well as connection sides can be selected for the converter fieldbus communications, as shown in the following tables.

| Connection types                             | Fieldbus communication | I/O         | 400 V AC              | 24 V DC   | Connection side        | 14th position of the Article No. | Additional identification code -Z with order code |
|----------------------------------------------|------------------------|-------------|-----------------------|-----------|------------------------|----------------------------------|---------------------------------------------------|
|                                              |                        |             |                       |           |                        | 2KJ8 ... - ..... ■ ... -Z        | Order code                                        |
| Without fieldbus communication (I/O Control) |                        |             |                       |           |                        |                                  |                                                   |
| Cable gland with daisy chain                 | without                | Cable gland |                       |           | left                   | 2KJ8 ... - ..... B ...           | V01                                               |
|                                              |                        |             |                       |           | right <sup>2)</sup>    | 2KJ8 ... - ..... B ...           | V06                                               |
| Plug-in connection without daisy chain       | without                | M12         | Q4/2                  | 7/8"      | left                   | 2KJ8 ... - ..... C ...           | V10                                               |
|                                              |                        |             |                       |           | right                  | 2KJ8 ... - ..... C ...           | V11                                               |
|                                              |                        |             |                       | Power M12 | left                   | 2KJ8 ... - ..... C ...           | V12                                               |
|                                              |                        |             |                       |           | right                  | 2KJ8 ... - ..... C ...           | V13                                               |
|                                              |                        |             | Quickon <sup>1)</sup> | Power M12 | left                   | 2KJ8 ... - ..... C ...           | V14                                               |
|                                              |                        |             |                       |           | right                  | 2KJ8 ... - ..... C ...           | V15                                               |
|                                              |                        |             | MQ15 <sup>1)</sup>    | Power M12 | left                   | 2KJ8 ... - ..... C ...           | V16                                               |
|                                              |                        |             |                       |           | right                  | 2KJ8 ... - ..... C ...           | V17                                               |
| Plug-in connection with daisy chain          | without                | M12         | 2 x Q4/2              | 2 x 7/8"  | left                   | 2KJ8 ... - ..... C ...           | V20                                               |
|                                              |                        |             |                       |           | right                  | 2KJ8 ... - ..... C ...           | V21                                               |
|                                              |                        |             | 2 x Power M12         | left      | 2KJ8 ... - ..... C ... | V22                              |                                                   |
|                                              |                        |             |                       | right     | 2KJ8 ... - ..... C ... | V23                              |                                                   |
| AS-Interface                                 |                        |             |                       |           |                        |                                  |                                                   |
| Cable gland with daisy chain                 | M12                    | Cable gland |                       |           | left                   | 2KJ8 ... - ..... D ...           | V02                                               |
|                                              |                        |             |                       |           | right                  | 2KJ8 ... - ..... D ...           | V03                                               |
|                                              |                        | M12         |                       |           | left                   | 2KJ8 ... - ..... D ...           | V04                                               |
|                                              |                        |             |                       |           | right                  | 2KJ8 ... - ..... D ...           | V05                                               |
| Plug-in connection without daisy chain       | M12                    | M12         | Q4/2                  | –         | left                   | 2KJ8 ... - ..... E ...           | V10                                               |
|                                              |                        |             |                       |           | right                  | 2KJ8 ... - ..... E ...           | V11                                               |
|                                              |                        |             | Quickon <sup>1)</sup> | –         | left                   | 2KJ8 ... - ..... E ...           | V14                                               |
|                                              |                        |             |                       |           | right                  | 2KJ8 ... - ..... E ...           | V15                                               |
|                                              |                        |             | MQ15 <sup>1)</sup>    | –         | left                   | 2KJ8 ... - ..... E ...           | V16                                               |
|                                              |                        |             |                       |           | right                  | 2KJ8 ... - ..... E ...           | V17                                               |
| Plug-in connection with daisy chain          | M12                    | M12         | 2 x Q4/2              | –         | left                   | 2KJ8 ... - ..... E ...           | V20                                               |
|                                              |                        |             |                       |           | right                  | 2KJ8 ... - ..... E ...           | V21                                               |

<sup>1)</sup> Not suitable for UL applications.

<sup>2)</sup> The cable gland with daisy chain with connection side right (order code **V06**) can only be selected with integrated power supply unit for 24 V DC power supply (order code **V70**).

## Order overview

### SINAMICS G115D distributed drive system

#### SIMOGear geared motors with SINAMICS G115D motor mounted > Converter options

#### Options

| Connection types                       | Fieldbus communication | I/O         | 400 V AC              | 24 V DC       | Connection side | 14th position of the Article No.                                                                                    | Additional identification code <b>-Z</b> with order code |                    |
|----------------------------------------|------------------------|-------------|-----------------------|---------------|-----------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------|
|                                        |                        |             |                       |               |                 | 2KJ8 . . . - . . . . -  . . . -Z | Order code                                               |                    |
| PROFINET, Ethernet/IP                  |                        |             |                       |               |                 |                                                                                                                     |                                                          |                    |
| Cable gland with daisy chain           | M12                    | Cable gland |                       |               | left            | 2KJ8 . . . - . . . . -                                                                                              | <b>F . . . V02</b>                                       |                    |
|                                        |                        |             |                       |               | right           | 2KJ8 . . . - . . . . -                                                                                              | <b>F . . . V03</b>                                       |                    |
|                                        |                        | M12         | Cable gland           |               |                 | left                                                                                                                | 2KJ8 . . . - . . . . -                                   | <b>F . . . V04</b> |
|                                        |                        |             |                       |               |                 | right                                                                                                               | 2KJ8 . . . - . . . . -                                   | <b>F . . . V05</b> |
| Plug-in connection without daisy chain | M12                    | M12         | Q4/2                  | 7/8"          | left            | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V10</b>                                       |                    |
|                                        |                        |             |                       |               | right           | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V11</b>                                       |                    |
|                                        |                        |             |                       | Power M12     | left            | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V12</b>                                       |                    |
|                                        |                        |             |                       |               | right           | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V13</b>                                       |                    |
|                                        |                        |             | Quickon <sup>1)</sup> | Power M12     | left            | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V14</b>                                       |                    |
|                                        |                        |             |                       |               | right           | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V15</b>                                       |                    |
|                                        |                        |             | MQ15 <sup>1)</sup>    | Power M12     | left            | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V16</b>                                       |                    |
|                                        |                        |             |                       |               | right           | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V17</b>                                       |                    |
| Plug-in connection with daisy chain    | M12                    | M12         | 2 x Q4/2              | 2 x 7/8"      | left            | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V20</b>                                       |                    |
|                                        |                        |             |                       |               | right           | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V21</b>                                       |                    |
|                                        |                        |             |                       | 2 x Power M12 | left            | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V22</b>                                       |                    |
|                                        |                        |             |                       |               | right           | 2KJ8 . . . - . . . . -                                                                                              | <b>G . . . V23</b>                                       |                    |

Supplementary system components for the SINAMICS G115D distributed drive system, motor-mounted

| Supplementary system components                        | Additional identification code -Z with order code |
|--------------------------------------------------------|---------------------------------------------------|
|                                                        | 2KJ8 . . . - . . . . - . . . -Z Order code        |
| Integrated power supply unit for 24 V DC power supply  | V70                                               |
| SINAMICS SD memory card (512 MB empty)                 | V80                                               |
| SINAMICS SD memory card (512 MB + firmware V4.7 SP13)) | V81                                               |

<sup>1)</sup> Not suitable for UL applications.

## Order overview

### SINAMICS G115D distributed drive system

[Clicking to the Industry Mall](#)
**6SL3255-0AA00-5AA0**

## Supplementary system components for SINAMICS G115D and spare parts for SINAMICS G115D

### Selection and ordering data

#### Supplementary system components for SINAMICS G115D

| Description                                                                                                                                                          | Article No.        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Fuses</b>                                                                                                                                                         |                    |
| • 10 A for FSA                                                                                                                                                       | 3NA3803            |
| • 16 A for FSB                                                                                                                                                       | 3NA3805            |
| • 32 A for FSC                                                                                                                                                       | 3NA3812            |
| <b>External braking resistors <sup>1)</sup></b><br>Continuous braking power                                                                                          |                    |
| • 200 W for FSA                                                                                                                                                      | 6SL3501-1BE32-0AA0 |
| • 240 W for FSA                                                                                                                                                      | 6SL3501-1BE32-4AA0 |
| • 480 W for FSA                                                                                                                                                      | 6SL3501-1BE34-8AA0 |
| • 200 W for FSB                                                                                                                                                      | 6SL3501-1BE32-0BA0 |
| • 240 W for FSB                                                                                                                                                      | 6SL3501-1BE32-4BA0 |
| • 600 W for FSB                                                                                                                                                      | 6SL3501-1BE36-0BA0 |
| • 600 W for FSC                                                                                                                                                      | 6SL3501-1BE36-0CA0 |
| • 1200 W for FSC                                                                                                                                                     | 6SL3501-1BE41-2CA0 |
| <b>SINAMICS SD memory card</b>                                                                                                                                       |                    |
| • 512 MB, empty                                                                                                                                                      | 6SL3054-4AG00-2AA0 |
| • 512 MB + firmware V4.7 SP13                                                                                                                                        | 6SL3054-7TG00-2BA0 |
| <b>SINAMICS G120 Smart Access</b><br>Web server module for wireless commissioning, operation and diagnostics of the converters using a smartphone, tablet, or laptop | 6SL3255-0AA00-5AA0 |
| <b>Interface kit</b><br>for web server module<br>SINAMICS G120 Smart Access                                                                                          | 6SL3555-0XA00-0AA0 |
| <b>PC converter connection kit 2</b><br>USB cable (3 m (9.84 ft) long)                                                                                               | 6SL3255-0AA00-2CA0 |
| <b>Installation kit</b>                                                                                                                                              |                    |
| • for SINAMICS G115D wall-mounted                                                                                                                                    | 6SL3566-2GW00-0GA0 |
| • for SINAMICS G115D motor-mounted                                                                                                                                   | 6SL3566-2GM00-0GA0 |
| <b>Cover kit</b><br>for outputs 400 V AC and 24 V DC (7/8" and M12)                                                                                                  | 6SL3566-2GA00-0GA0 |

#### Connecting cables

An overview of all available accessories (e.g. plugs and cables) can be found under the following link:

[www.siemens.com/distributeddrives-supplementaryproducts](http://www.siemens.com/distributeddrives-supplementaryproducts)

|                                                                                   |                    |
|-----------------------------------------------------------------------------------|--------------------|
| <b>PROFINET connecting cable</b>                                                  |                    |
| <b>IE connecting cable</b><br><b>M12-180/M12-180 axial outlet</b>                 |                    |
| • 0.3 m (0.98 ft)                                                                 | 6XV1870-8AE30      |
| • 0.5 m (1.64 ft)                                                                 | 6XV1870-8AE50      |
| • 1 m (3.28 ft)                                                                   | 6XV1870-8AH10      |
| • 1.5 m (4.92 ft)                                                                 | 6XV1870-8AH15      |
| • 2 m (6.56 ft)                                                                   | 6XV1870-8AH20      |
| • 3 m (9.84 ft)                                                                   | 6XV1870-8AH30      |
| • 5 m (16.41 ft)                                                                  | 6XV1870-8AH50      |
| • 10 m (32.81 ft)                                                                 | 6XV1870-8AN10      |
| • 15 m (49 ft)                                                                    | 6XV1870-8AN15      |
| <b>PROFINET connecting cable</b>                                                  |                    |
| <b>IE connecting cable M12-180/IE FC</b><br><b>RJ45 plug 145 axial outlet</b>     |                    |
| • 2 m (6.56 ft)                                                                   | 6XV1871-5TH20      |
| • 3 m (9.84 ft)                                                                   | 6XV1871-5TH30      |
| • 5 m (16.41 ft)                                                                  | 6XV1871-5TH50      |
| • 10 m (32.81 ft)                                                                 | 6XV1871-5TN10      |
| • 15 m (49 ft)                                                                    | 6XV1871-5TN15      |
| <b>PROFINET connectors</b>                                                        |                    |
| <b>IE M12 plug PRO axial outlet</b>                                               |                    |
| • 1 unit                                                                          | 6GK1901-0DB20-6AA0 |
| • 8 units                                                                         | 6GK1901-0DB20-6AA8 |
| <b>AS-Interface M12 branch</b>                                                    | 3RK1901-2NR20      |
| <b>Connecting cables/plug-in connectors for supplying the control electronics</b> |                    |
| <b>7/8" plug connector axial outlet</b>                                           |                    |
| • Pin insert (OUT)                                                                | 6GK1905-0FA00      |
| • Female contact insert (IN)                                                      | 6GK1905-0FB00      |

| Description                                                                                                                                                                                                      | Article No.        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Connecting cables/plug-in connectors for supplying the control electronics</b>                                                                                                                                |                    |
| <b>7/8" plug-in cable axial outlet</b>                                                                                                                                                                           |                    |
| • 0.3 m (0.98 ft)                                                                                                                                                                                                | 6XV1822-5BE30      |
| • 0.5 m (1.64 ft)                                                                                                                                                                                                | 6XV1822-5BE50      |
| • 1 m (3.28 ft)                                                                                                                                                                                                  | 6XV1822-5BH10      |
| • 1.5 m (4.92 ft)                                                                                                                                                                                                | 6XV1822-5BH15      |
| • 2 m (6.56 ft)                                                                                                                                                                                                  | 6XV1822-5BH20      |
| • 3 m (9.84 ft)                                                                                                                                                                                                  | 6XV1822-5BH30      |
| • 5 m (16.41 ft)                                                                                                                                                                                                 | 6XV1822-5BH50      |
| • 10 m (32.81 ft)                                                                                                                                                                                                | 6XV1822-5BN10      |
| • 15 m (49 ft)                                                                                                                                                                                                   | 6XV1822-5BN15      |
| <b>Connecting cables and plug-in connectors for digital inputs and outputs</b>                                                                                                                                   | 3RK1902-4PB15-3AA0 |
| <b>M12 plug-in cable pre-assembled at both ends, axial outlet</b>                                                                                                                                                |                    |
| <b>Y cable for distributed I/Os for dual connection of I/Os using single cables, 5-pole, M12, 200 mm (7.87 in)</b>                                                                                               | 6ES7194-6KA00-0XA0 |
| <b>Connecting cables pre-assembled at one end and connector sets to connect to the line supply</b>                                                                                                               |                    |
| <b>Connecting cable pre-assembled at one end</b>                                                                                                                                                                 |                    |
| • 1.5 m (4.92 ft)                                                                                                                                                                                                | 3RK1911-0DB13      |
| • 5 m (16.41 ft)                                                                                                                                                                                                 | 3RK1911-0DB33      |
| <b>Connector set for energy supply</b>                                                                                                                                                                           |                    |
| • 2.5 mm <sup>2</sup>                                                                                                                                                                                            | 3RK1911-2BE50      |
| • 4 mm <sup>2</sup>                                                                                                                                                                                              | 3RK1911-2BE10      |
| • 6 mm <sup>2</sup>                                                                                                                                                                                              | 3RK1911-2BE30      |
| <b>Quickon system connector for connections for 400 V AC</b>                                                                                                                                                     |                    |
| • Quickon nut                                                                                                                                                                                                    | 6SL3566-4NA00-0GA0 |
| • Quickon connector                                                                                                                                                                                              | 6SL3566-4MA00-0GA0 |
| <b>Connector insert for power loop-through</b>                                                                                                                                                                   |                    |
| • 2.5 mm <sup>2</sup>                                                                                                                                                                                            | 3RK1911-2BF50      |
| • 4 mm <sup>2</sup>                                                                                                                                                                                              | 3RK1911-2BF10      |
| <b>SINAMICS G115D training case</b><br>SINAMICS G115D distributed drive system, motor-mounted, PROFINET, FSA, 0.37 kW, SIMOGear motor LE 71, gearbox Z29 incl. SIMATIC S7-1200F and MindConnect IoT 2040 gateway | 6AG1067-1AA38-0AA0 |

#### Spare parts for SINAMICS G115D

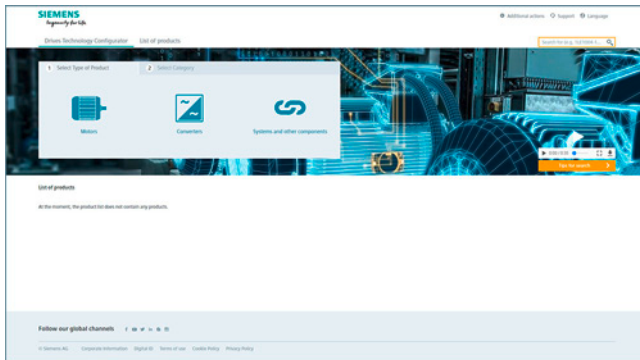
| Description                                               | Article No.                                          |
|-----------------------------------------------------------|------------------------------------------------------|
| <b>Electronic Modules</b>                                 |                                                      |
| • FSA, 0.37 kW                                            | 6SL3500-0XE50-3- <span style="color:blue">A</span> 0 |
| • FSA, 0.55 kW                                            | 6SL3500-0XE50-5- <span style="color:blue">A</span> 0 |
| • FSA, 0.75 kW                                            | 6SL3500-0XE50-7- <span style="color:blue">A</span> 0 |
| • FSA, 1.1 kW                                             | 6SL3500-0XE51-1- <span style="color:blue">A</span> 0 |
| • FSA, 1.5 kW                                             | 6SL3500-0XE51-5- <span style="color:blue">A</span> 0 |
| • FSB, 2.2 kW                                             | 6SL3500-0XE52-2- <span style="color:blue">A</span> 0 |
| • FSB, 3 kW                                               | 6SL3500-0XE53-0- <span style="color:blue">A</span> 0 |
| • FSB, 4 kW                                               | 6SL3500-0XE54-0- <span style="color:blue">A</span> 0 |
| • FSC, 5.5 kW                                             | 6SL3500-0XE55-5- <span style="color:blue">A</span> 0 |
| • FSC, 7.5 kW                                             | 6SL3500-0XE57-5- <span style="color:blue">A</span> 0 |
| <b>Fieldbus communication</b>                             |                                                      |
| • AS-Interface                                            | A                                                    |
| • Without fieldbus communication                          | B                                                    |
| • PROFINET, EtherNet/IP                                   | F                                                    |
| <b>Spare parts kit</b>                                    |                                                      |
| • for SINAMICS G115D wall-mounted                         | 6SL3500-0XK51-0AA0                                   |
| • for SINAMICS G115D motor-mounted                        | 6SL3500-0XK50-0AA0                                   |
| <b>Replacement fan</b><br>for SINAMICS G115D wall-mounted | 6SL3500-0XF51-0AA0                                   |

<sup>1)</sup> Available soon.

### Overview

The Drive Technology Configurator (DT Configurator) helps you to configure the optimum drive technology products for your application – starting with gear units, motors, converters as well as the associated options and components and ending with controllers, software licenses and connection systems. Whether with little or detailed knowledge of products: preselected product groups, deliberate navigation through selection menus and direct product selection through entry of the article number support quick, efficient and convenient configuration.

In addition, comprehensive documentation comprising technical data sheets, 2D dimensional drawings/3D CAD models, operating instructions, certificates, etc. can be selected in the DT Configurator. Immediate ordering is possible by simply transferring a parts list to the shopping cart of the Industry Mall.



### **Drive Technology Configurator for efficient drive configuration with the following functions**

- Quick and easy configuration of drive products and associated components – gear units, motors, converters, controllers, connection systems
- Configuration of drive systems for pumps, fans and compressor applications from 1 kW to 2.6 MW
- Retrievable documentation for configured products and components, such as
  - Data sheets in up to 9 languages in PDF or RTF format
  - 2D dimensional drawings/3D CAD models in various formats
  - Terminal box drawing and terminal connection diagram
  - Operating instructions
  - Certificates
  - Start-up calculation for SIMOTICS motors
  - EPLAN macros
- Support with retrofitting in conjunction with Spares On Web ([www.siemens.com/sow](http://www.siemens.com/sow))
- Ability to order products directly through the Siemens Industry Mall

### Access to the Drive Technology Configurator

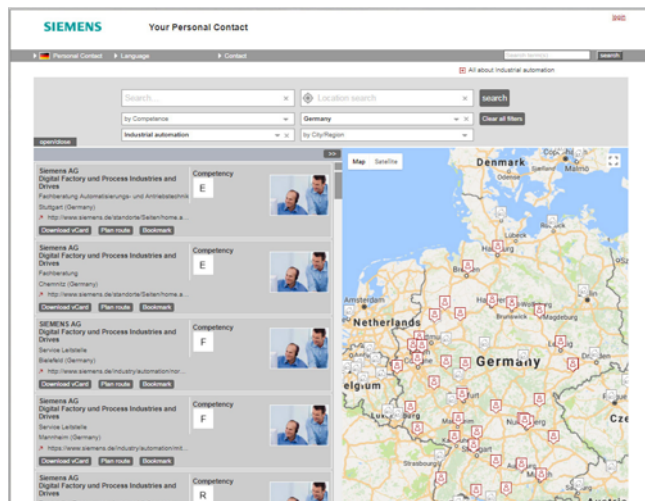
The Drive Technology Configurator can be called up without registration and without a login:

[www.siemens.com/dt-configurator](http://www.siemens.com/dt-configurator)

## Order overview

### Partner

#### Partner at Siemens



At your service locally, around the globe for consulting, sales, training, service, support, spare parts on the entire portfolio of Digital Industries.

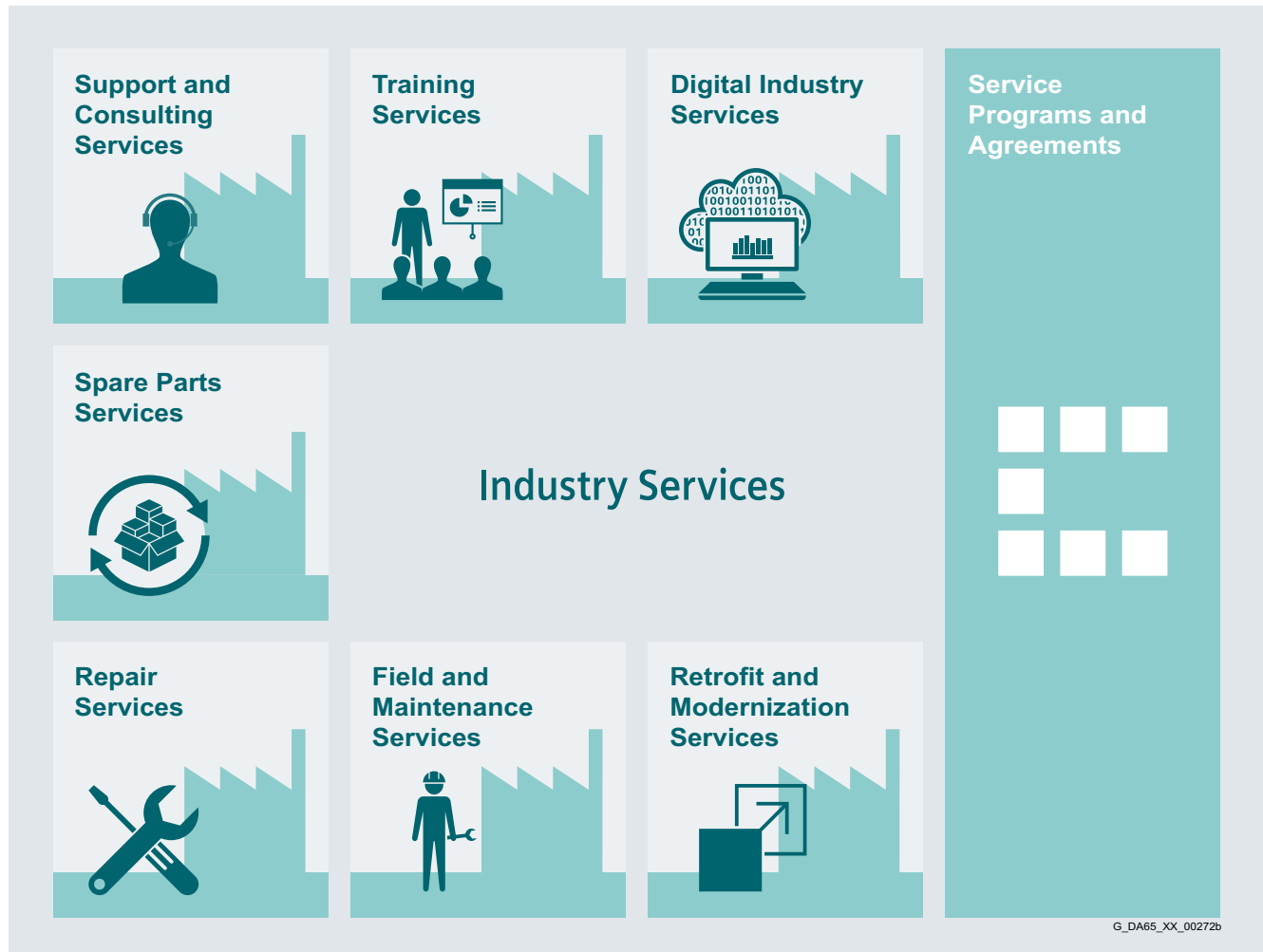
Your partner can be found in our Personal Contacts Database at:  
[www.siemens.com/automation-contact](http://www.siemens.com/automation-contact)

You start by selecting

- the required competence,
- products and branches,
- a country and a city

or by a

- location search or free text search.

**Overview**

**Keep your business running and shaping your digital future – with Industry Services**

Optimizing the productivity of your equipment and operations can be a challenge, especially with constantly changing market conditions. Working with our service experts makes it easier. We understand your industry's unique processes and provide the services needed so that you can better achieve your business goals.

You can count on us to maximize your uptime and minimize your downtime, increasing your operations' productivity and reliability. When your operations have to be changed quickly to meet a new demand or business opportunity, our services give you the flexibility to adapt. Of course, we take care that your production is protected against cyber threats. We assist in keeping your operations as energy and resource efficient as possible and reducing your total cost of ownership. As a trendsetter, we ensure that you can capitalize on the opportunities of digitalization and by applying data analytics to enhance decision making: You can be sure that your plant reaches its full potential and retains this over the longer lifespan.

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[www.siemens.com/industrieservices](http://www.siemens.com/industrieservices)

## Order overview

### Industry Services

#### Industry Services – Portfolio overview

##### Overview



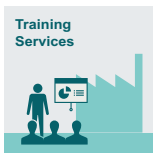
##### Digital Industry Services

Digital Industry Services make your industrial processes transparent to gain improvements in productivity, asset availability, and energy efficiency.

Production data is generated, filtered and translated with intelligent analytics to enhance decision-making.

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[www.siemens.com/global/en/products/services/industry/digital-industry-services.html](https://www.siemens.com/global/en/products/services/industry/digital-industry-services.html)

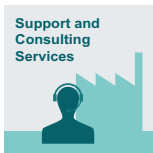


##### Training Services

From the basics and advanced to specialist skills, SITRAIN courses provide expertise right from the manufacturer – and encompass the entire spectrum of Siemens products and systems for the industry.

Worldwide, SITRAIN courses are available wherever you need a training course in more than 170 locations in over 60 countries.

<https://support.industry.siemens.com/cs/ww/en/sc/2226>



##### Support and Consulting Services

**Industry Online Support** site for comprehensive information, application examples, FAQs and support requests.

**Technical and Engineering Support** for advice and answers for all inquiries about functionality, handling, and fault clearance. The Service Card as prepaid support for value added services such as Priority Call Back or Extended Support offers the clear advantage of quick and easy purchasing.

**Information & Consulting Services**, e.g. SIMATIC System Audit; clarity about the state and service capability of your automation system or Lifecycle Information Services; transparency on the lifecycle of the products in your plants.

<https://support.industry.siemens.com/cs/ww/en/sc/2235>



##### Spare Parts

Spare Parts Services are available worldwide for smooth and fast supply of spare parts – and thus optimal plant availability. Genuine spare parts are available for up to ten years. Logistic experts take care of procurement, transport, custom clearance, storage and order management.

Reliable logistics processes ensure that components reach their destination as needed.

Since not all spare parts can be kept in stock at all times, Siemens offers a preventive measure for spare parts provisioning on the customer's premises with optimized **Spare Parts Packages** for individual products, custom-assembled drive components and entire integrated drive trains – including risk consulting.

**Asset Optimization Services** help you design a strategy for parts supply where your investment and carrying costs are reduced and the risk of obsolescence is avoided.

<https://support.industry.siemens.com/cs/ww/en/sc/2110>



##### Repair Services

Repair Services are offered on-site and in regional repair centers for fast restoration of faulty devices' functionality.

Also available are extended repair services, which include additional diagnostic and repair measures, as well as emergency services.

<https://support.industry.siemens.com/cs/ww/en/sc/2154>



##### Field and Maintenance Services

Siemens specialists are available globally to provide expert field and maintenance services, including commissioning, functional testing, preventive maintenance and fault clearance.

All services can be included in customized service agreements with defined reaction times or fixed maintenance intervals.

<https://support.industry.siemens.com/cs/ww/en/sc/2265>



##### Retrofit and Modernization Services

Provide a cost-effective solution for the expansion of entire plants, optimization of systems or upgrading existing products to the latest technology and software, e.g. migration services for automation systems.

Service experts support projects from planning through commissioning and, if desired over the entire extended lifespan, e.g. Retrofit for Integrated Drive Systems for an extended lifetime of your machines and plants.

<https://support.industry.siemens.com/cs/ww/en/sc/2286>



##### Service Programs and Agreements

A technical Service Program or Agreement enables you to easily bundle a wide range of services into a single annual or multi-year agreement.

You pick the services you need to match your unique requirements or fill gaps in your organization's maintenance capabilities.

Programs and agreements can be customized as KPI-based and/or performance-based contracts.

<https://support.industry.siemens.com/cs/ww/en/sc/2275>

**Overview**

Online Support – fast, intuitive, whenever you want, wherever you need

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|  |                                                                                                                                                                                               |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>FAQ / Application examples</b><br>Information about industrial products, programming and configuration as well as application examples                                                     |
|  | <b>Technical information</b><br>Videos, documentation, manuals, updates, product notes, compatibility tool, certificates, planning data such as dimensional drawings, product data, 3D models |
|  | <b>Forum</b><br>Exchange information and experience with other users and experts                                                                                                              |

## Online Support for Siemens Industry Products

Siemens Industry and Online Support with some 1.7 million visitors per month is one of the most popular web services provided by Siemens. It is the central access point for comprehensive technical know-how about products, systems and services for automation and drives applications as well as for process industries.

In connection with the challenges and opportunities related to digitalization you can look forward to continued support with innovative offerings.

## Order overview

### Conditions of sale and delivery

#### 1. General Provisions

By using this catalog you can purchase products (hardware, software and services) described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Please note that the scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

##### **1.1 For customers with a seat or registered office in European Union**

For customers with a seat or registered office in European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany"<sup>1)</sup> and/or
- for consulting services the "Allgemeine Geschäftsbedingungen für Beratungsleistungen der Division DF – Deutschland" (available only in German) and/or
- for other services, the „Supplementary Terms and Conditions for Services ("BL")"<sup>1)</sup> and/or
- for other supplies the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"<sup>1)</sup>.

In case such supplies should contain Open Source Software, the conditions of which shall prevail over the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"<sup>1)</sup>, a notice will be contained in the scope of delivery in which the applicable conditions for Open Source Software are specified. This shall apply mutatis mutandis for notices referring to other third party software components.

##### **1.2 For customers with a seat or registered office outside European Union**

For customers with a seat or registered office outside European Union, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for consulting services the "Standard Terms and Conditions for Consulting Services of the Division DF for Customers with a Seat or Registered Office Outside of Germany"<sup>1)</sup> and/or
- for other services the "International Terms & Conditions for Services"<sup>1)</sup> supplemented by "Software Licensing Conditions"<sup>1)</sup> and/or
- for other supplies of hard- and software the "International Terms & Conditions for Products"<sup>1)</sup> supplemented by "Software Licensing Conditions"<sup>1)</sup>

##### **1.3 For customers with master or framework agreement**

To the extent our supplies and/or services offered are covered by an existing master or framework agreement, the terms and conditions of that agreement shall apply instead of T&C.

#### 2. Prices

The prices are in € (Euro) ex point of delivery, exclusive of packaging.

The sales tax (value added tax) is not included in the prices. It shall be charged separately at the respective rate according to the applicable statutory legal regulations.

Prices are subject to change without prior notice. We will charge the prices valid at the time of delivery.

To compensate for variations in the price of raw materials (e.g. silver, copper, aluminum, lead, gold, dysprosium and neodym), surcharges are calculated on a daily basis using the so-called metal factor for products containing these raw materials.

A surcharge for the respective raw material is calculated as a supplement to the price of a product if the basic official price of the raw material in question is exceeded.

The metal factor of a product indicates the basic official price (for those raw materials concerned) as of which the surcharges on the price of the product are applied, and with what method of calculation.

An exact explanation of the metal factor can be downloaded at:

[https://mall.industry.siemens.com/legal/ww/en/terms\\_of\\_trade\\_en.pdf](https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf)

To calculate the surcharge (except in the cases of dysprosium and neodym), the official price from the day prior to that on which the order was received or the release order was effected is used.

To calculate the surcharge applicable to dysprosium and neodym ("rare earths"), the corresponding three-month basic average price in the quarter prior to that in which the order was received or the release order was effected is used with a one-month buffer (details on the calculation can be found in the explanation of the metal factor).

#### 3. Additional Terms and Conditions

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches apply only to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the individual pages of this catalog – especially with regard to data, dimensions and weights given – these are subject to change without prior notice.

<sup>1)</sup> The text of the Terms and Conditions of Siemens AG can be downloaded at  
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### 4. Export Regulations

We shall not be obligated to fulfill any agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes and/or other sanctions.

Export may be subject to license. We shall indicate in the delivery details whether licenses are required under German, European and US export lists.

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Prior to any transfer of goods, works and services provided by us to a third party you shall in particular check and guarantee by appropriate measures that

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