

SIEMENS

SETRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Busbar Trunking Systems

Catalog
Extract
LV 10

Edition
04/2019

[siemens.com/lowvoltage](https://www.siemens.com/lowvoltage)

Related catalogs

Low-Voltage Power Distribution and Electrical Installation Technology LV 10
 SENTRON • SIVACON • ALPHA
 Protection, Switching, Measuring and Monitoring
 Devices, Switchboards and Distribution Systems

PDF (E86060-K8280-A101-A9-7600)
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Siemens TIA Selection Tool

for the selection, configuration and ordering of TIA products and devices

www.siemens.com/tst



Products for Automation and Drives CA 01
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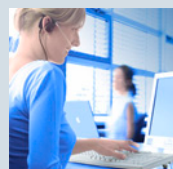


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www.siemens.com/lowvoltage

Technical Support



Expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

www.siemens.com/lowvoltage/support-request

Low-Voltage Power Distribution and Electrical Installation Technology

Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems

SENTRON · SIVACON · ALPHA



Catalog LV 10 · 04/2019

You can find the updated catalog valid from October 2019 in the Siemens Industry Online Support under www.siemens.com/lowvoltage/catalogs

Supersedes:
Catalog LV 10 · 10/2018

Refer to the Industry Mall for current prices:
www.siemens.com/industrymall

The products in this catalog can also be found in the Interactive Catalog CA 01:
www.siemens.com/ca01download

Please contact your local Siemens branch.

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The products and systems listed in this catalog are developed and manufactured using a certified quality management system in accordance with EN ISO 9001:2008.

Protection, Switching, Measuring and Monitoring Devices	Air Circuit Breakers	1
	Molded Case Circuit Breakers	2
	Miniature Circuit Breakers	3
	Residual Current Protective Devices / Arc-Fault Detection Devices (AFDDs)	4
	Fuse Systems	5
	Overvoltage Protection Devices	6
	Switch Disconnectors	7
	Transfer Switching Equipment and Load Transfer Switches	8
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	Transformers, Power Supply Units and Socket Outlets	10
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Switchboards and Distribution Systems	Switchboards	16
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	Power Distribution Boards / Distribution Boards	19
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Opening Information

Ordering notes

Overview

Ordering special versions

When ordering products that differ from the standard versions listed in the catalog, "-Z" must be added to the Article No. indicated and the required features must be specified using alphanumeric order codes or plain text.

Ordering very small quantities

When very small orders are placed, the costs associated with order processing are greater than the order value. We therefore recommend that you combine several small orders. Where this is not possible, we regret that we are obliged to make a small processing charge: for orders with a net goods value of less than € 250 we charge a € 20 supplement to cover our order processing and invoicing costs.

Explanations of Selection and ordering data

Standard delivery time (SD)

- Preferred type Preferred types are device types that can be delivered immediately ex works, i.e. they are dispatched within 24 hours.

Price units (PU)

The price unit defines the number of units, sets or meters to which the specified price applies.

Packaging size (PS)

The packaging size defines the number of units, sets or meters, for example, for outer packaging. Only the quantity defined by the packaging size or a multiple thereof can be ordered.

Price group (PG)

Each product is allocated to a price group.

Example

5TT3400
SD: Preferred type
PG: 13C
Ordering quantity 1 unit or a multiple thereof

8US1923-5CA02
PG: 14O
Ordering quantity 10 units or a multiple thereof

8WH9000-1GA00
PG: 12X
Ordering quantity 50 units or a multiple thereof

SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
►	5TT3400		1	1 unit	1BK
	8US1923-5CA02		1	10 units	1CU
	8WH9000-1GA00		100	50 units	1BT

Note:

The article numbers shown here and the specifications regarding selection and ordering data are examples only. When ordering, always use the selection and ordering data in the product chapters.

Metal surcharges/export markings

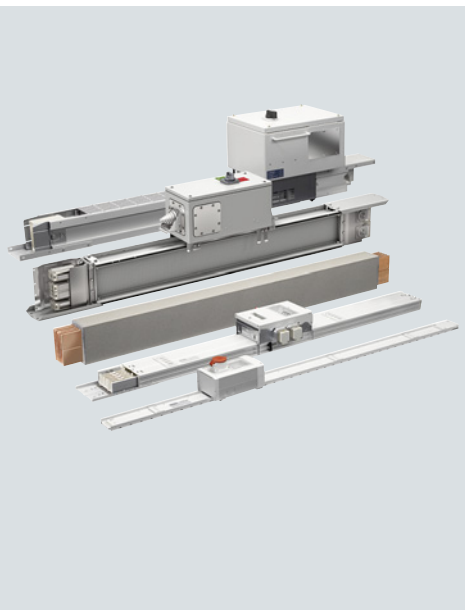
To compensate fluctuating prices of raw materials (for example silver, copper, aluminum, lead, gold, dysprosium and neodymium), surcharges are calculated on a daily basis for products containing these raw materials using the metal factor. A surcharge for the particular raw material is added to the price of a product if the basic quotations for this raw material are exceeded.

Each product's metal factor dictates for which raw materials the metal surcharges are calculated, from which quotation and with which calculation method (weight or percentage method).

An exact explanation of the metal factor can be found at: www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

A product's export markings/metal surcharges are updated daily at www.siemens.com/industrymall.

Busbar Trunking Systems



Introduction

- 17/2 Introduction
- 17/4 Features overview
- 17/6 Principles of busbar trunking planning

For further information,
see **Catalog LV 70**



For further technical product information:

Installation manual

SIVACON 8PS
- Installation with BD2 system
Article No.: A5E02126899-02

Planning Manual

SIVACON 8PS
- Planning with SIVACON 8PS
Article No.: A5E01541017-04

Siemens Industry Online Support:

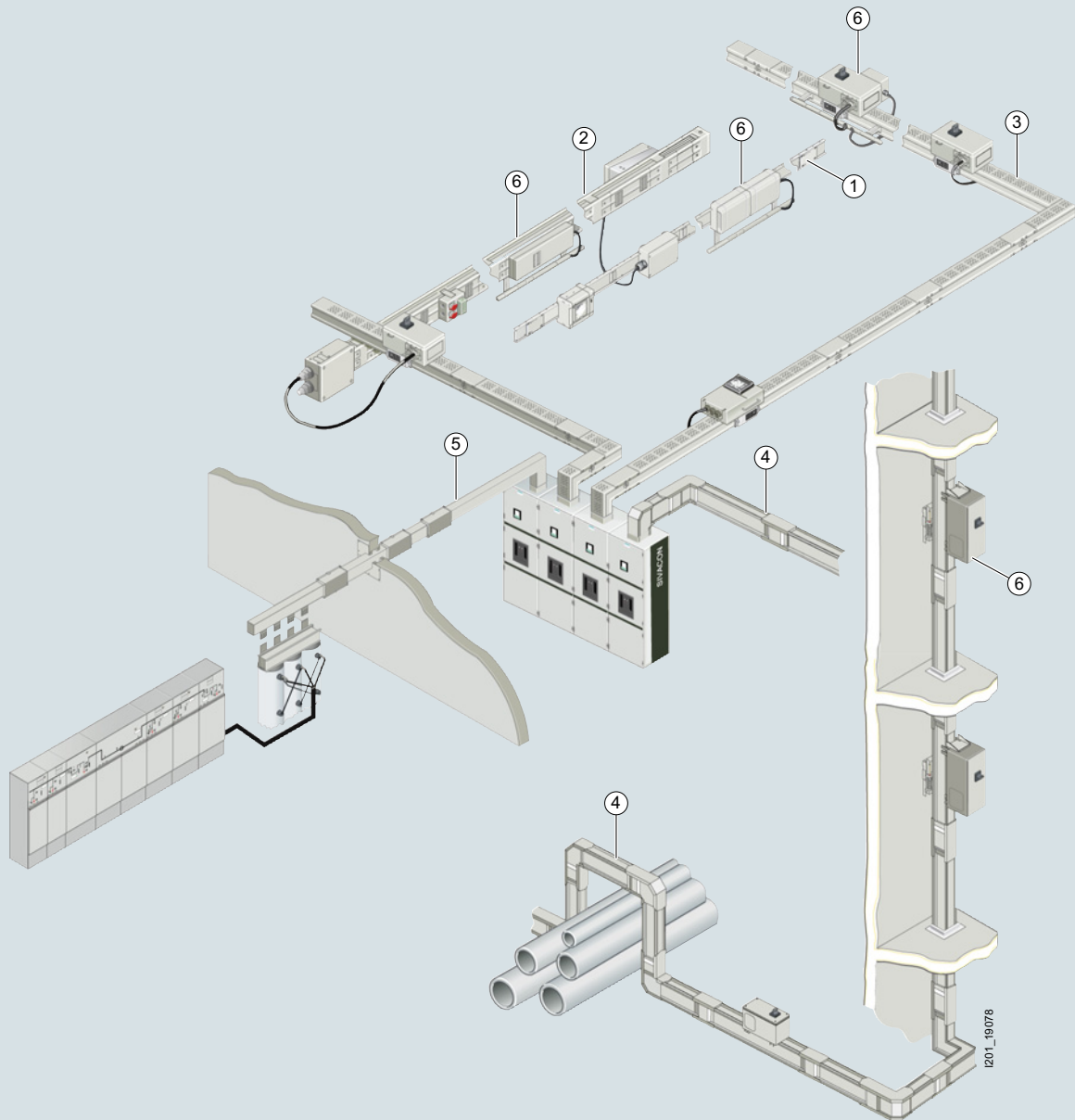
[www.siemens.com/lowvoltage/
product-support](http://www.siemens.com/lowvoltage/product-support)

- Entry type:
- Application example
 - Certificate
 - Characteristic
 - Download
 - FAQ
 - Manual
 - Product note
 - Software archive
 - Technical data

Busbar Trunking Systems

Introduction

Overview



- ① BD01 system
- ② BD2 system
- ③ LD system

- ④ LI system
- ⑤ LR system
- ⑥ Communication-capable busbar trunking systems for connection to the following bus systems:
 - KNX (EIB / Instabus)
 - AS-Interface
 - PROFIBUS
 - PROFINET
 - Modbus

1201_19078

Benefits

① **BD01 system up to 160 A**

The busbar trunking system for power distribution in the skilled trades and business:

- High degree of protection up to IP55
- Flexible power supply
- Easy and quick planning
- Time-saving mounting
- Reliable mechanical and electrical connection technology
- High stability, low weight
- Few basic modules required
- Storage-friendly system
- Variable changes of direction
- Versatile tap-off units
- Positive opening and closing of tap-off points

② **BD2 system up to 1250 A**

The busbar trunking system for operation in the harsh industrial world:

- High degree of protection up to IP55
- Easy and quick planning
- Time-saving and economical mounting
- Reliable and safe operation
- Flexible modular system with simple solutions for every application
- Early planning of the power distribution system without exact knowledge of load locations
- Early readiness for operation thanks to fast and simple mounting
- Innovative design: No more compensation boxes to compensate elongation
- Codable tap-off units and tap-off points
- Sealable throughout

③ **LD system up to 5000 A**

The busbar trunking system for optimized power distribution in industry:

- Degree of protection up to IP54
- Quick and easy mounting
- Reliable and safe operation
- Space-saving, compact design up to 5000 A in one enclosure
- Load outgoing feeders up to 1250 A
- Type-tested connection to distribution boards and transformers

④ **LI system up to 6300 A**

The busbar trunking system for power transmission and distribution in infrastructure – e.g. in multistory buildings – and in industrial applications:

- Reliable and easy mounting
- Reliable and safe operation
- Load outgoing feeders up to 1250 A
- Tested connection to distribution boards (type-tested connection to SIVACON S8) and transformers

⑤ **LR system up to 6300 A**

The busbar trunking system for power transmission under extreme ambient conditions (IP68).

Detailed information about this system is available from the Siemens branch located close to you.

⑥ **Communication-capable busbar trunking systems**

Communication-capable function expansions for combination with known tap-off units:

- Can be used with the BD01, BD2, LD and LI systems
- Uses:
 - Building control
 - Switching, reporting and remote operation
 - Consumption recording and remote monitoring of decentral power tap-off units
 - Interlinking of various trades
- Connection to the KNX (EIB/Instabus), AS-Interface and PROFIBUS, PROFINET and Modbus bus systems
- Integrated, efficient and future-proof solution thanks to the integration of measuring devices in energy management solutions according to ISO 50001
- Flexible with plug-in tap-off units including measuring devices
- Cost-efficient with greater transparency of the energy consumption
- Reliable thanks to central control of the power distribution

More information

SIMARIS sketch software

With the SIMARIS sketch software tool, three-dimensional routing plans can be easily created.

Building Information Modeling (BIM) data

To ensure an integrated database, Building Information Modeling (BIM) data are available for creating a digital twin.

BusbarCheck installation app

The BusbarCheck installation app enables easy and high-quality installation and documentation. It provides the installation engineer with all necessary information regarding the installation. In addition, all connection points are identified and visually documented.

SIVACON 8PS with powerline technology

The BD2, LD and LI busbar trunking systems are capable of much more than just distributing power safely and reliably to the loads. They use powerline technology to transfer power data directly via the conductors. As a result, these data are readily available for overarching automation and power management systems via plug and play as well as in cloud-based systems (IoT).

Catalog LV 70, BD01, BD2 systems up to 1250 A

German: Article No. E86060-K1870-A101-A8
English: Article No. E86060-K1870-A101-A8-7600

SIVACON 8PS busbar trunking systems configurator

Busbar trunking systems up to 1250 A can be ordered using the product configurator (selection aid). This includes the following systems:

- SIVACON 8PS BD01 system, 40 ... 160 A
- SIVACON 8PS BD2 system, 160 ... 1250 A

This selection aid is available via

- the Industry Mall, see www.siemens.com/industrymall
- the Interactive Catalog CA 01, see www.siemens.com/automation/ca01

Manual

Planning with SIVACON 8PS – busbar trunking systems up to 6300 A

German: Article No. A5E01541017-04
English: Article No. A5E01541101-04

Leaflet

English: Energy: flexible, safe, everywhere, SIVACON 8PS
German: Article No. EMMS-B10032-01
English: Article No. EMMS-B10032-01-7600

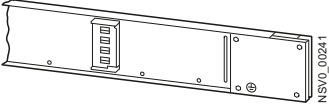
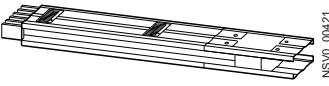
Internet

More information about SIVACON 8PS can be found at:
www.siemens.com/busbar

Busbar Trunking Systems

Features overview

Overview

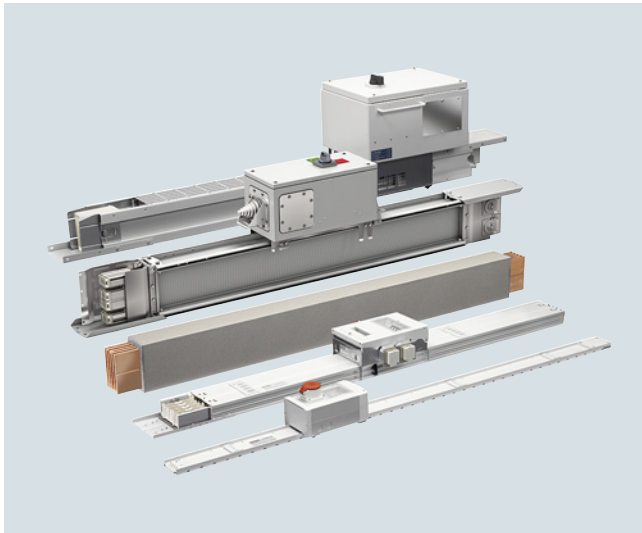
Busbar Trunking Systems	Rated current	Rated operational voltage	Frequency	Number of active conductors	Degree of protection	Ambient temperature, min./max.
	A	V AC	Hz			°C
BD01  NSVO_00411	40 63 100 125 160	400	50	4 (PE = enclosure)	Up to IP55	-5/+40
BD2A BD2C  NSVO_00421	160 ... 1000 160 ... 1250	690	50	5	Up to IP55	-5/+40
LDA1 ... LDA8 LDC2 ... LDC8  NSVO_00611	1100 ... 4000 2000 ... 5000	1000	50	4 or 5	Up to IP54	-5/+40
LI-A0800 ... LI-A5000 LI-C1000 ... LI-C6300  NSVO_00687	800 ... 5000 1000 ... 6300	1000	50	3, 4, 5, 6 (PE = enclosure)	Up to IP66	-5/+50
LRA01 ... LRA29 LRC01 ... LRC29  NSVO_01451	400 ... 5000 630 ... 6300	1000	50	4, 5	IP68	-5/+40

Mounting position	Length m	Tap-off points	Tap-off units	Material	Fire load kWh/m	Can be combined with communication-capable tap-off units for
Edgewise, flat (tap-off points downwards)	2 3	On one side every 0.5 or 1 m	Up to 63 A	Insulated Al or Cu conductors, painted sheet-steel enclosure	0.76	Lighting control
Edgewise, flat and vertical	0.5 ... 3.25	Without On two sides offset every 0.25 or 0.5 m	Up to 530 A	Al or Cu- busbars, painted sheet-steel enclosure	0.6 ... 0.67 (without tap-off points)	Lighting control, remote switching, signaling and consumption recording
Horizontal, edgewise and vertical	0.5 ... 3.2	Without On one side every 1 m On two sides every 1 m	Up to 1250 A	Insulated Al or Cu busbars, painted sheet-steel enclosure	4.16 ... 8.83 (without tap-off points)	Remote switching, signaling and consumption recording
Horizontal, edgewise and vertical	0.35 ... 3	Without Up to 3 tap-off points on 3 m	Up to 1250 A	Insulated Al or Cu busbars, painted aluminum enclosure	2.13 ... 15.34	Remote switching, signaling and consumption recording
Horizontal, edgewise and vertical	0.5 ... 3	Without Selectable on one side	Up to 630 A	Epoxy resin system, Al or Cu busbars	--	--

Busbar Trunking Systems

Principles of busbar trunking planning

Overview



Trunking units for currents from 40 to 6300 A

When it comes to developing a power distribution concept complete with the configuration of systems and system components, the end user's requirements have to be coordinated with the manufacturer's possibilities.

Descriptions are provided accordingly of the individual systems, their technical features and their fields of application. Another element is the graphic representation of the various busbar trunking elements. All details of importance for the planning work are emphasized and explained.

You will find ideas for a ready-to-use planning solution under "Configuration information" in Chapters 3 and 4 of Catalog LV 70. For example, the basics of dimensioning are presented in detail along with in-depth information on topics such as system construction, short-circuit protection, fire protection and functional maintenance.

Services and engineering tools are available from Siemens to simplify the drawing up of customer specifications.

General information

When developing the planning concept of a power supply system, it is necessary not only to consider the standards and specifications in force but also to clarify the correlations between economy and technology. Electrical equipment such as distribution boards and transformers must be dimensioned and selected so that they represent an optimum in their entirety and not just individually.

All components must be sufficiently dimensioned for the loads which arise in the event of a fault as well as during operation at rated values. Other decisive points to be considered when drawing up the power concept are:

- The type, utilization and shape of building (e.g. high-rise, flat-roof and number of storeys)
- Determination of load centers and selection of possible supply routes and locations for transformers and main distribution boards
- Determination of building-related connected loads according to specific loads per unit area dependent on the building's use
- Specifications and requirements imposed by the building authorities
- Requirements imposed by the power supply companies

The result will never be a single solution but several versions which must be assessed with regard to their technical and economic implications. The following requirements are paramount in this connection:

- Easy and clear-cut planning
- Long endurance
- High availability
- Low fire load
- Flexible adaptation to changes within the building

In most applications these requirements are easily met by the use of suitable busbar trunking systems. For this reason, busbar trunking systems rather than the cable installation method are being used more and more often by engineering offices for the transmission and distribution of power. Siemens offers busbar trunking systems from 40 to 6300 A:

- The BD01 busbar trunking system from 40 A to 160 A for supplying power to workshops with tap-off units up to 63 A
- The BD2 system from 160 A to 1250 A for supplying power to medium-size loads in buildings and in industry
- The ventilated LD system from 1100 A to 5000 A for supplying loads with medium power consumption in industry
- The LI sandwich system from 800 A to 6300 A for power distribution with IP55 and power transmission of high volumes of power up to IP66 in infrastructure – e.g. in multistorey buildings – and in industrial applications
- The LR encapsulated system from 400 A to 6300 A for power transmission in extreme ambient conditions (IP68)

1. General standards

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to these conditions of sale and delivery (hereinafter: CSD). Please note: the scope, the quality and the conditions for supplies and services, including software products, by any Siemens group or Regional Company having a registered office outside of Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. These CSD apply exclusively for orders placed with Siemens AG, Germany.

1.1 For customers with a seat or registered office in Germany

For customers with a seat or registered office in Germany, the following shall be subordinate to these CSD

- for installation, the "Standard Terms and Conditions for Installation –Germany" and
- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services – for Customers in Germany"¹⁾ and
- for standalone software products and software products that are part of another product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany"¹⁾ and
- for other supplies and services, the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾.
In the event that such other supplies and services include open-source software, the conditions of which override the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾, the product will be supplied with a notice detailing the special conditions that apply for the relevant open-source software. This applies accordingly in the case of a reference to other third-party software components.

1.2 For customers with a seat or registered office outside of Germany

For customers with a seat or registered office outside of Germany, the following shall be subordinate to these CSD

- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services"¹⁾ (only available in English) and
- for services, the "International Terms & Conditions for Services"¹⁾ supplemented by the "Software Licensing Conditions"¹⁾ and
- for the supply of other hardware and software the "International Terms & Conditions for Products"¹⁾ supplemented by the "Software Licensing Conditions"¹⁾.

1.3 For customers with framework agreements

To the extent that our products and services are covered by an existing framework agreement, the conditions there apply instead of this CSD.

2. Prices

The prices are in € (euros) ex works, excluding packaging.

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

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

To compensate fluctuating prices of raw materials (for example silver, copper, aluminum, lead, gold, dysprosium and neodymium), surcharges are calculated on a daily basis for products containing these raw materials using the metal factor. A surcharge for the particular raw material is added to the price of a product if the basic quotations for this raw material are exceeded.

Each product's metal factor dictates for which raw materials the metal surcharges are calculated, from which quotation and with which calculation method (weight or percentage method).

An exact explanation of the metal factor can be found at: www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

The surcharge will be calculated (except in the case of dysprosium and neodymium) on the basis of the official price on the day prior to receipt of the order or prior to the release order for calculation of the surcharge.

In the event of placement of an order, the relevant three-month average price from the quarter prior to order receipt or the release order shall be used with a one-month buffer to calculate the dysprosium and neodymium surcharge ("rare earths") (you will find details in the aforementioned explanation of the metal factor).

3. Additional terms and conditions

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

Illustrations are not binding.

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

¹⁾ You can download the text of the Siemens AG terms and conditions of trade at www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

Appendix

Conditions of sale and delivery

4. Export regulations

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

Exporting may be subject to authorization. In delivery information, we label authorization obligations according to German, European and US export lists.

Our products are controlled by the U.S. authorities (goods labeled with "ECCN" not equal to "N") and may only be supplied to the stated country of the end user for sole use by the end user. Without U.S. government approval or other approval under U.S. law, the products may not be sold, transferred or otherwise forwarded to other countries or to other persons other than the specified end user, either in their original form or after further processing into other goods. Goods labeled with an "AL" not equal to "N" are subject European/national export authorization requirements.

Please note that you can also preview the export designations in the respective product description via our "Industry Mall" online catalog system. The deciding factors, however, are the AL or ECCN export designations indicated on order confirmations, delivery notes and invoices.

Unmarked items or items marked "AL:N" / "ECCN:N" or "AL:9X9999" / "ECCN: 9X9999" may require authorization based on their intended use or ultimate destination.

If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you shall comply with all applicable national and international (re-) export control regulations.

If required to conduct export control checks, you, at our request, shall promptly provide us with all information pertaining to particular end customers, destination and intended use of goods, works and services provided by us, as well as any relevant export control restrictions.

The products listed in this catalog may be subject to European/German and/or US export regulations. Therefore, any export requiring a license is subject to approval by the competent authorities.

Errors excepted and subject to change without prior notice.

Further information can be obtained from our branch offices listed at www.siemens.com/lowvoltage/contact

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SINAMICS G150 Drive Converter Cabinet Units		
<i>Digital: SINAMICS PERFECT HARMONY GH180 Medium-Voltage Air-Cooled Drives (Germany Edition)</i>	D 15.1	
SINAMICS G180 Converters – Compact Units, Cabinet Systems, Cabinet Units Air-Cooled and Liquid-Cooled	D 18.1	
SINAMICS S120 Chassis Format Converter Units	D 21.3	
SINAMICS S120 Cabinet Modules		
SINAMICS S150 Converter Cabinet Units		
SINAMICS S120 and SIMOTICS	D 21.4	
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<i>Digital: SINAMICS Converters for Single-Axis Drives · SINAMICS G120X</i>	D 31.5	
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<i>Digital: SINAMICS V90 Basic Servo Drive System</i>	D 33	
<i>Digital: SINAMICS G120P and SINAMICS G120P Cabinet pump, fan, compressor converters</i>	D 35	
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MICROMASTER 411/COMBIMASTER 411	DA 51.3	
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<i>Digital: ALPHA Distribution Systems</i>	LV 51	
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