SIEMENS

SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Busbar Systems

Catalog Extract LV 10

Edition 04/2018

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-A7-7600)
Print (E86060-K8280-A101-A6-7600)

3VA Molded Case Circuit Breakers with UL and IEC Certification
SENTRON

PDF/print (E86060-K8290-A101-A2-7600)

Industrial Controls IC 10
SIRIUS

PDF (E86060-K1010-A101-A8-7600)

Industrial Communication IK PI
SIMATIC NET

E86060-K6710-A101-B8-7600

DELTA ET D1
Switches and Socket Outlets

PDF

SITRAIN
Training for Industry

www.siemens.com/sitrain

Catalog PDF / Contact

Catalog PDF
Digital versions of the catalogs are available in the Siemens Industry Online Support.

www.siemens.com/lowvoltage/catalogs

Contact
Your personal contact can be found in our Contacts Database at:

www.siemens.com/automation-contact

Industry Mall / TIA ST / CA 01

Industry Mall
Information and Ordering Platform on the Internet:

www.siemens.com/industrymall

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
Interactive Catalog
Download

www.siemens.com/ca01download

Trademarks

All product designations may be registered trademarks or product names of Siemens AG or other supplying companies. Third parties using these trademarks or product names for their own purposes may infringe upon the rights of the trademark owners. Further information about low-voltage power distribution and electrical installation technology is available on the Internet at:

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 · 04/2018

Supersedes:
Catalog LV 10 · 10/2017

Refer to the Industry Mall for current updates of this catalog:
www.siemens.com/industrymall

The products in this catalog can also be found in the Interactive Catalog CA 01.
Article No.: E86060-D4001-A510-D8-7500

Please contact your local Siemens branch.

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.

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 an € 20 supplement to cover our order processing and invoicing costs.

Explanations of Selection and Ordering Data

Standard delivery time (SD)

SD in days (d)	The standard delivery times (SD) are valid ex works from Siemens AG (products ready for dispatch). Shipping times depend on the destination and the method of shipping. The standard shipping time for Germany is one day.	The specified standard delivery times are correct at the time of going to print and are subject to constant optimization. Up-to-date information can be found at www.siemens.com/industrymall.
► Preferred type	Preferred types are device types that can be delivered immediately ex works, i.e. they are dispatched within 24 hours. If ordered in normal quantities, the products are usually delivered within the specified delivery times, calculated from the date we receive your order. In exceptional cases, delivery times may vary from those specified.	
X On request	In such cases, the delivery time can be queried.	

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: 1BK
Ordering quantity 1 unit or a multiple thereof

8US1923-5CA02

PG: 1CU
Ordering quantity 10 units or a multiple thereof

8WH9000-1GA00

PG: 1BT
Ordering quantity 50 units or a multiple thereof

SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
d					
►	**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.

For further technical product information:

Configuration Manual

8US Busbar Systems
Article No.: 3ZW1012-8US10-0AC1

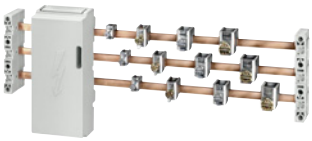
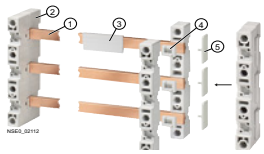
Siemens Industry Online Support:

www.siemens.com/lowvoltage/product-support

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

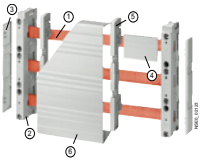
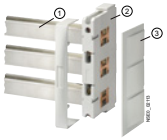
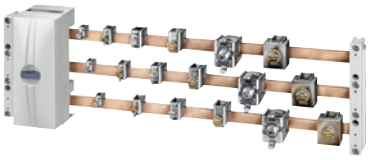
System overview

Overview

Devices		Page	Application	Standards	Used in		
					Non-residential buildings	Residential buildings	Industry
	**8US 40 mm busbar systems up to 400 A**	11/9	Basic assemblies up to 400 A, busbar supports, busbars, touch protection covers	EN 13601 IEC 61439-1	✓	--	✓
	Basic assemblies	11/10	Basic assemblies up to 400 A, busbar supports, busbars, touch protection covers	EN 13601 IEC 61439-1	✓	--	✓
	**60 mm compact busbar systems up to 360 A**	11/11		EN 13601 IEC 61439-1 UL 508 A	✓	--	✓
	3-/5-pole: Basic assemblies	11/12	Basic assemblies up to 360 A, busbar supports, busbars, touch protection covers	EN 13601 IEC 61439-1 UL 508 A	✓	--	✓
	3-pole: Infeeds and connection methods	11/13	Infeed for busbar systems, terminals	EN 13601 IEC 61439-1 UL 508 A	✓	--	✓
	3-pole: Built-in components	11/14	3-pole NEOZED bus-mounting bases	IEC 60947-3, EN 60947-3 (VDE 0660) IEC 60269, EN 60269 (VDE 0636)	✓	--	✓
	3-pole: Device adapters and device holders	11/15	Busbar device adapters and device holders for the assembly of 3RV2/3RT2 load feeders	EN 13601 IEC 61439-1 UL 508 A	✓	--	✓
	5-pole: Infeeds and connection methods	11/17	Infeed for busbar systems, terminals	EN 13601 IEC 61439-1 UL 508 A	✓	--	✓
	5-pole: Device adapters and device holders	11/18	Busbar device adapters and device holders for the assembly of 3RV2/3RT2 load feeders	EN 13601 IEC 61439-1 UL 508 A	✓	--	✓

11

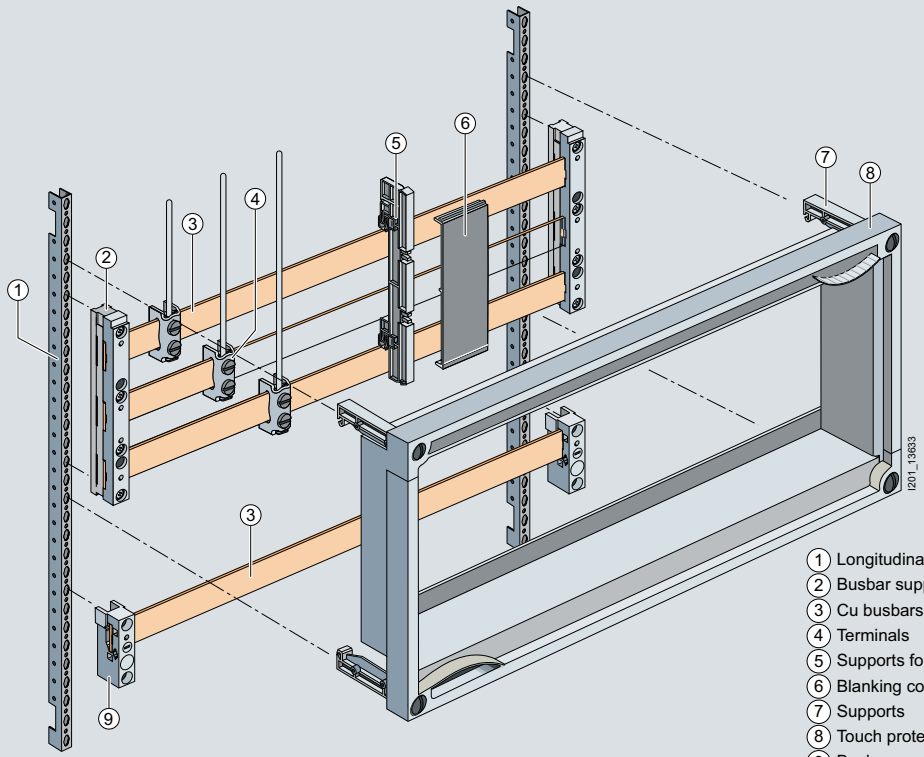
Minimum order quantity (PS) or a multiple thereof can be ordered.

Devices		Page	Application	Standards	Used in		
					Non-residential buildings	Residential buildings	Industry
	**8US 60 mm busbar systems up to 1600 A**	11/21		EN 13601 IEC 61439-1 UL 508 A	✓	--	✓
	Basic assemblies up to 630 A	11/22	Basic assemblies up to 630 A, busbar supports, busbars, touch protection covers	EN 13601 IEC 61439-1 UL 508 A	✓	--	✓
	Basic assemblies up to 1600 A	11/25	Basic assemblies up to 1600 A, busbar supports, busbars, touch protection covers	EN 13601 IEC 61439-1 UL 508 A	✓	--	✓
	Infeeds and connection methods	11/26	Infeed for busbar systems, terminals ...	EN 13601 IEC 61439-1 UL 508 A	✓	--	✓
	Built-in components	11/29	3-pole NEOZED bus-mounting bases or DIAZED bus-mounting bases, NEOZED bus-mounting switch disconnectors, fuse switch disconnectors and busbar device adapters	IEC 60947-3, EN 60947-3 (VDE 0660) IEC 60269, EN 60269 (VDE 0636)	✓	--	✓
	Device adapters and device holders	11/35	Busbar device adapters and device holders for the assembly of 3RV2/3RT2 load feeders	EN 13601 IEC 61439-1 UL 508 A	✓	--	✓

11

Overview

The use of busbar systems with their versatile rail-adaptable connection, switching and installation devices is an ideal and cost-effective electrotechnical enhancement of modern distribution boards thanks to their small footprint, compact design and quick assembly contacts. Mounting is implemented on longitudinal stays. The standard busbar spacing is 60 mm. However, 40 mm, 100 mm and 185 mm systems are also in use.



1 Longitudinal stays
2 Busbar supports, three-phase
3 Cu busbars
4 Terminals
5 Supports for blanking covers
6 Blanking covers
7 Supports
8 Touch protection cover
9 Busbar supports, single-phase

11

Benefits

Notable cost reduction compared to conventional installation in switchgear and control cabinets due to the following reasons:

- Mechanical fixing and electrical contacting in a single step
- No access wiring and fewer busbar terminals used
- Double use of the busbar space
- Clear arrangement
- Straightforward replacement of individual devices or whole combinations
- High operational safety through finger-safe cover of the adapters and device holders

All the above advantages are felt especially in cases where many tap-off units of the same performance range are required.

Application

8US busbar systems are used for the direct busbar-mounting of current-limiting devices (protective devices) such as fuse switch disconnectors and circuit breakers as well as complete load feeders.

8US busbar systems are designed for horizontal mounting of the busbars.

Design

8US busbar systems with 60 mm busbar center-to-center spacing as well as flat copper profiles have become firmly established on the world market.

The permissible busbar temperature is decisive when dimensioning the busbars. The busbar temperature is dependent on the current and the current distribution, on the busbar cross-section and the busbar surface, on the position of the busbars, convection and the ambient temperature. The values stated in the following table can only be considered as guide values because the conditions vary with each location. The values are based on continuous current over the whole busbar length.

The busbar runs prove most advantageous when the infeed is centrally located and the load is distributed symmetrically on both sides.

Function

Short-circuit strength

The short-circuit strength of the busbar system is dependent on the distance of the busbar supports and on the busbar cross-section.

The short-circuit strength of the whole system is dependent on the short-circuit strength of the busbars and of the adapters with circuit breakers or switch disconnectors. If one of these values is lower than the prospective short-circuit current at the installation site, a current-limiting protective device has to be mounted upstream of the 8US busbar system. This may also be mounted as a feeder circuit breaker on the busbar system itself.

Minimum order quantity (PS) or a multiple thereof can be ordered.

Technical specifications

Continuous current for busbars, E-Cu bare, at 35 °C ambient temperature according to DIN 43671

Busbar dimensions	System	Continuous current at a busbar temperature of		
		65 °C	85 °C	105 °C
mm	mm	A	A	A
12 × 5 15 × 5	40 + 60 40 + 60	188 222	248 293	295 349
20 × 5 25 × 5 30 × 5	60 60 60	274 327 379	362 432 500	430 513 595
12 × 10 20 × 10 30 × 10	40 + 60 60 60	302 427 573	398 564 756	474 670 900
Special profile up to 1600 A	60	1020	1020	1600

General technical specifications

Rated insulation voltage U_i	V AC	1000
Short-circuit strength		
Of 8US1 busbar device adapter		Current limitation due to associated motor starter protectors/circuit breakers/load feeders up to 50 kA
Of the busbar systems		see "Characteristic curves as a function of rated peak withstand current"
Material of the 8US1 busbar supports, busbar device adapters and device holders		Glass-fiber reinforced polyamide
Color		RAL 7035, light gray
Thermal stability (minimum values)		
Busbar supports, busbar device adapters, device holders, infeed and caps	°C	120
AWG connecting cables	°C	105 / 150
Cover profiles	°C	110
Bases, partitions, edge profiles and blanking covers	°C	70
Machining of plastic profiles		Take care when machining that no cracks are formed. A cross-cut circular saw with the following characteristic values has proven successful in cutting cover profiles for busbars: • D = 300 mm, B = 2.2 mm, • T = 120 R (5° negative replaceable tooth at a cutting rate of 50 ... 60 m/s) • Tooth feed 0.05 ... 0.1 mm The plastic parts have to be secured so that vibration is ruled out.
Approvals		
Busbar supports, busbar device adapters, device holders and terminals		UR, CSA, c UL us- listed

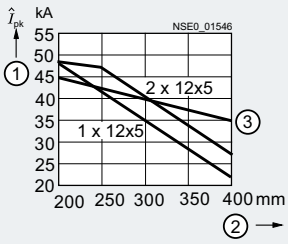
Technical specifications of the system components

Infeed, connection modules, three-phase		5SH3538	5SH3535	8US1921-1BA00	8US1921-1AA00
Busbar center-to-center spacing	mm	60	60	60	60
Current carrying capacity of the terminal points The specified current carrying capacities reflect the thermal load capability of the terminal points under favorable conditions (with the largest conductors it is possible to connect). This does not invalidate the assignment of conductor cross-sections and current carrying capacities as defined in national and international specifications.	A	80	560	300	440
Tightening torque	Nm	--	30	8 ... 10	12 ... 15
Clamping space W × H	mm	--	--	10 × 15	15 × 15
Conductors that can be used	mm^2	1.5 ... 16 Cu, re, rm, f, f+AE (reduction of the maximum conductor cross-sections may be required)	150 ... 300 Cu, Al (connections with aluminum conductors are not maintenance free), rm, sm, f	6 ... 50 (70) Cu, rm, f, f+AE (reduction of the maximum conductor cross-sections may be required), Cu 6 × 9 × 0.8	35 ... 120 Cu, rm, f, f+AE (reduction of the maximum conductor cross-sections may be required), Cu 6/10 × 15.5 × 0.8

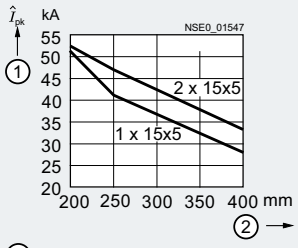
Characteristic curves

Characteristic curves as a function of rated peak withstand current

40 mm busbar systems

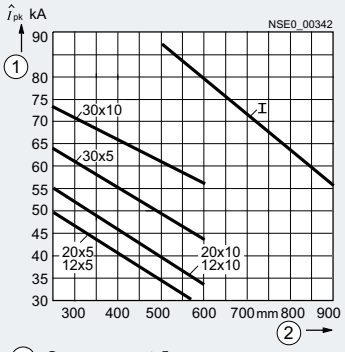


① Surge current I_{pk}
② Spacing of busbar supports
③ 5-pole busbar supports



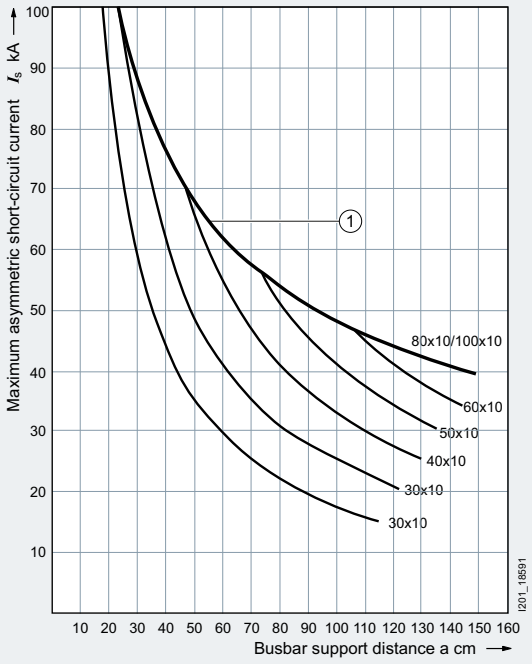
① Surge current I_{pk}
② Spacing of busbar supports

60 mm busbar systems



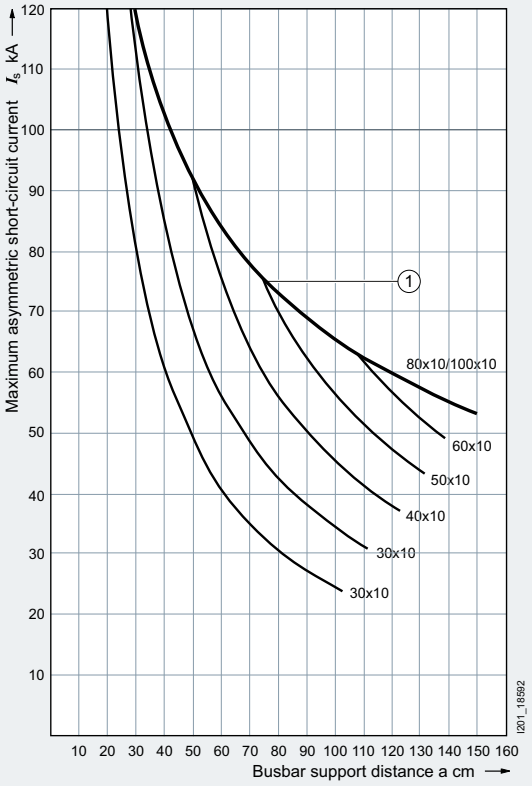
① Surge current I_{pk}
② Spacing of busbar supports

100 mm busbar system for 3NJ4/3NJ5



① Maximum limit load on busbar system

185 mm busbar system for 3NJ4/3NJ5



① Maximum limit load on busbar system

11

Minimum order quantity (PS) or a multiple thereof can be ordered.

Current-carrying capacity values for flat bars acc. to DIN 43671

According to DIN 43671, current-carrying capacity values for flat bars are defined at 35 °C ambient temperature and 65 °C busbar temperature.

If a higher busbar temperature than 65 °C is possible, the busbars can be operated with higher current values according to the following formula: $I = I_n \, k_2$

Example

Under normal operating conditions (35 °C ambient temperature and 65 °C busbar temperature), a 30 x 10 mm busbar can handle loads up to 630 A. However, you want the busbar to handle a higher current, at the expense of an increased busbar temperature of max. 85 °C.

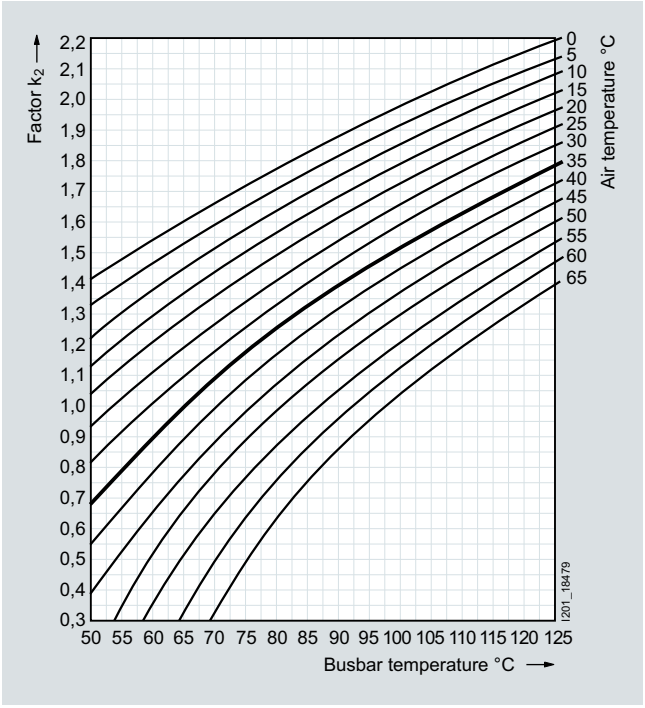
The following applies:

- Bar type: Busbar
- Busbar size: 30 x 10 mm
- Max. bar temperature: 85 °C
- Ambient temperature: 35 °C

The figure on the right shows the correction factor k_2 = 1.3 for the current-carrying capacity.

This results in a higher value of 630 A x 1.3 = 819 A.

If the 30 x 10 mm busbar is to be operated with a bar temperature of 85 °C, it may be loaded with maximum 819 A.



Current-carrying capacity values for 30 x 10 mm flat bars acc. to DIN 43671, depending on ambient and bar temperature

11

UL applications

Overview

Short-circuit strength

The short-circuit strength of the busbar system is dependent on the distance of the busbar supports and on the busbar cross-section.

The short-circuit strength of the whole system is dependent on the short-circuit strength of the busbars and of the adapters with circuit breakers or switch disconnectors. If one of these values is lower than the prospective short-circuit current at the installation site, a current-limiting protective device has to be mounted upstream of the 8US busbar system. This may also be mounted as a feeder circuit breaker on the busbar system itself.

Selection aid for UL applications

An updated roundup of all available busbar adapters can be found at

www.siemens.com/lowvoltage/8US-UL

Overview

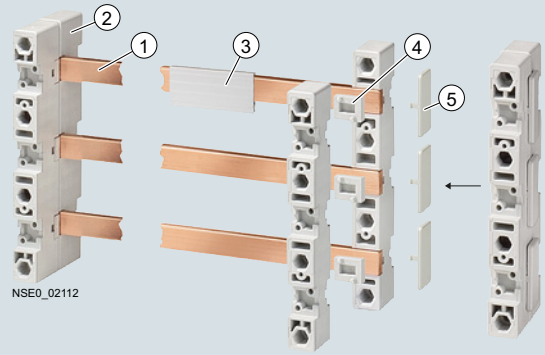
The 40 mm busbar system for the lower performance range up to 400 A: Terminals and covers for infeed and connection methods

The 40 mm busbar system is used in machine engineering and distribution boards, in meter cabinets and in power distribution systems of the low performance range up to 400 A.

The busbar cross-sections are adapted to the rated currents and are available in the sizes 12 x 5 mm, 12 x 10 mm, 15 x 5 mm and 15 x 10 mm. The basic system is configured without covers. If touch protection is required, this is possible with busbar covers.

Terminals round off the product range of the 40 mm busbar system.

Overview



① Flat copper profile
② Busbar support
③ Cover profile
④ Inlay part
⑤ Covering cap

40 mm busbar system: Basic assembly up to 400 A

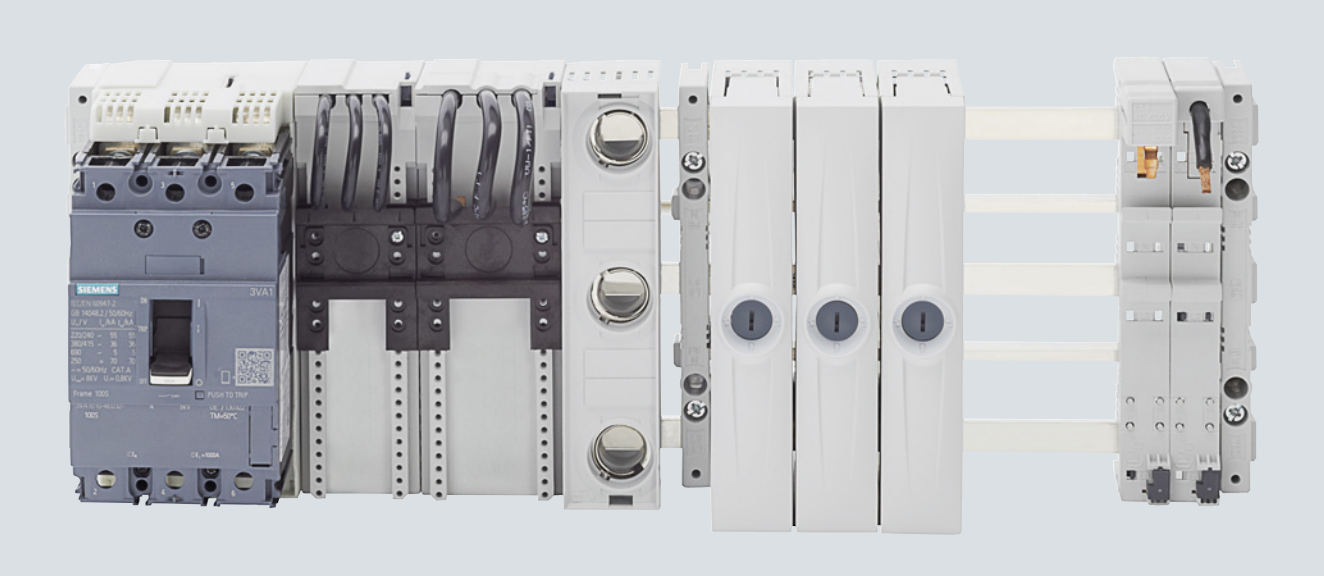
Selection and ordering data

	Description		SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			d					
	②④⑤ **Busbar supports**							
	End and intermediate holders for flat copper profiles							
 8US1903-3AB00	12 x 5 mm, 12 x 10 mm, 15 x 5 mm, 15 x 10 mm 3-pole, with inside fixing (PU = 2 busbar supports including inlay parts for bar thickness 5 mm and lateral finger-safe covers)			**8US1903-3AB00**		1	1 unit	1CU
 8US1903-5AA00	5-pole, 12 x 5 mm and 12 x 10 mm with inside fixing	L1–L3 + N + PE/N		**8US1903-5AA00**		1	1 unit	1CU
	① **Flat copper profiles (flat profile, approx. 2.4 m long, bare, according to EN 12167)**							
 8WC5	12 × 5 mm			**8WC5123**		1	1 unit	1CU
	15 × 5 mm			**8WC5121**		1	1 unit	1CU
	③ **Cover profiles for busbars**							
 8US1922-2CA00	12 × 5 mm	1000 mm long		**8US1922-2CA00**		1	10 units	1CU
	15 × 5 mm	1000 mm long		**8US1922-2AA00**		1	10 units	1CU

11

Minimum order quantity (PS) or a multiple thereof can be ordered.

Overview



The 60 mm compact busbar system for the lower performance range up to 360 A

The 60 mm compact busbar system is used especially as a space-saving solution in distribution boards with 12 x 5 or 12 x 10 mm busbars up to 360 A.

Thanks to its maximum height of 160 mm, it offers significant space benefits over other assemblies, and with the comparable dimensions of a 40 mm busbar system it offers an ideal alternative with the benefits of a 60 mm busbar system.

Another important benefit is provided by the option of combining with devices from the basic assemblies up to 400 A.

In addition, most components of the system in the 3-pole version meet the requirement regarding clearances in accordance with UL 508.

Another benefit is expansion to a 5-pole system with the same mounting height of 160 mm. The N and PE conductors are each arranged between the phases. The busbar supports are already prepared for a 5-pole system.

The 5-pole compact system is approved for 12 x 5 mm busbars and for applications up to a maximum of 200 A.

Benefits

- Significant space advantage compared to other assemblies
- Combination option with devices from the basic assemblies up to 400 A
- Comply with the clearances stipulated by UL 508
- Expansion to a 5-pole system up to 200 A possible

Basic assemblies

Overview

The 3-/5-pole 60 mm compact busbar system for the lower performance range up to 360 A; the 5-pole element is only designed for up to 200 A

Selection and ordering data

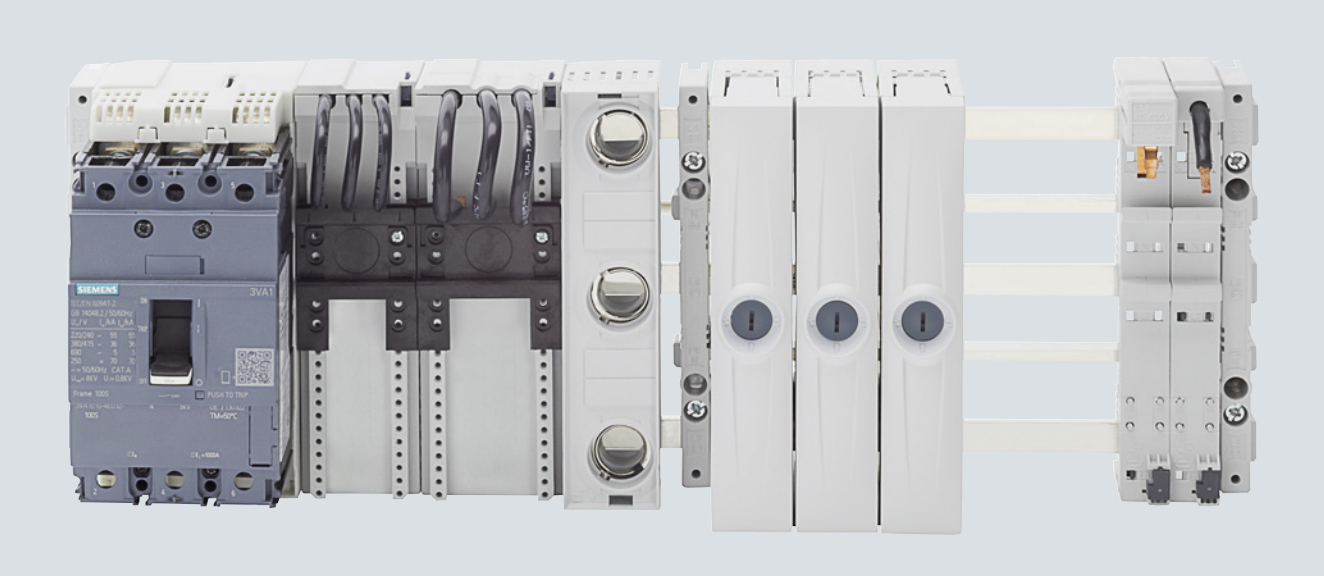
Assembly of 3-/5-pole 60 mm compact busbar systems (up to 200/360 A for 12 x 5/10 mm busbars)

	Description	Size	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm		d					
	Busbar supports, 3P+N+PE, with end cover • Rated voltage U_e - 690 V AC for IEC applications - 600 V AC for UL 508 • SCCR for UL 508 - 5-pole: 22 kA - 3-pole: 36 kA • Minimum order quantity 10 units	12 x 160 x 45	UL 508		**8US1923-5CA02**		1	10 units	1CU
	UL spacers, height 18 mm • For use under 8US1923-5CA02 busbar support • Minimum order quantity 10 units	12 x 160 x 18			**8US1922-1CA02**		1	10 units	1CU
	Stabilizing modules • For protecting the N and PE busbars against bending • Minimum order quantity 10 units	2 x 160 x 47			**8US1928-5CA02**		1	10 units	1CU
	Cover profiles • Minimum order quantity 2 units	700 x 160 x 63			**8US1922-2CB02**		1	2 units	1CU
	Holders • For 8US1922-2CB02 cover profile • Minimum order quantity 10 units	5 x 156 x 55			**8US1922-2CA02**		1	10 units	1CU

11

Minimum order quantity (PS) or a multiple thereof can be ordered.

Overview



The 3-/5-pole 60 mm compact busbar system for the lower performance range up to 360 A: Infeeds and connection methods

Assembly of 3-pole 60 mm compact busbar systems (up to 200/360 A for 12 x 5/10 mm busbars)

	Description	Size	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm		d					
	Infeed system 3-pole for busbar 12 x 5 mm, 12 x 10 mm								
	Connection modules 16 mm², 3-pole with spring terminal 1.5 ...16 mm² • Rated current I_e - 80 A for IEC applications • Rated voltage U_e - 690 V AC for IEC applications • Minimum order quantity 6 units	20 x 160 x 91			**8US1921-1BA02**		1	6 units	1CU
	Connecting terminal plates, 3-pole • Terminals 6 ... 50 mm² • Rated current I_e - 300 A for IEC applications • Rated voltage U_e - 690 V AC for IEC applications - 600 V AC for UL 508	54 x 160 x 115	UL 508		**8US1921-1CB02**		1	1 unit	1CU
	Connecting terminal plates, 3-pole • Terminals 35 ... 150 mm² • Rated current I_e - 480 A for IEC applications • Rated voltage U_e - 690 V AC for IEC applications	90 x 160 x 115			**8US1921-1CC02**		1	1 unit	1CU

11

You can order this quantity or a multiple thereof.

Built-in components

Overview

Bus-mounting base for 3-pole compact busbar systems

Melting fuses are capable of safely switching off faulty circuits. NEOZED fuses have a high short-circuit breaking capacity of 50 kA and a high short-circuit current limitation.

The NEOZED bus-mounting fuse bases in size D02 enable the direct use of 20 A to 63 A NEOZED fuse links. Adapter sleeves and a special retaining spring (5SH5400) are available for use with smaller rated currents up to 16 A.

Thanks to their 36-mm-wide design, NEOZED bus-mounting fuse bases are highly thermally emissive, thus enabling high operating currents under continuous load.

For more information on NEOZED fuse systems, see chapter "Fuse Systems"

Technical specifications

Bus-mounting bases

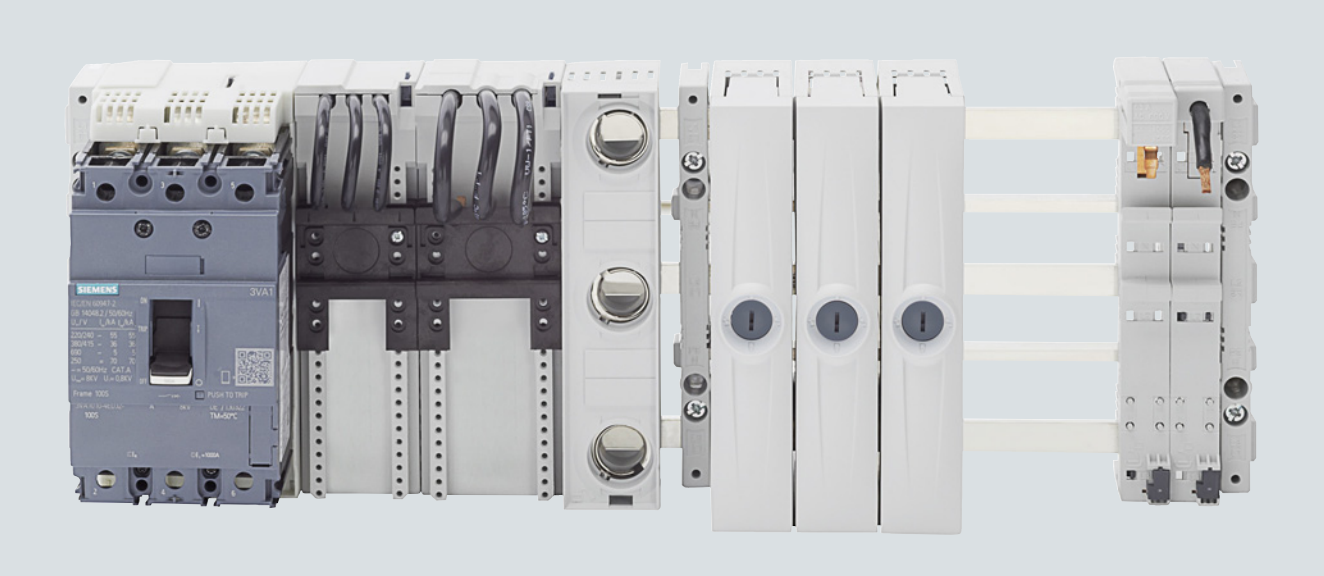
		NEOZED bus-mounting bases for 60 mm compact busbar systems
		5SG6208
Size		**D02**
Standards		IEC 60269-3, DIN VDE 0636-3
Rated voltage	V AC V DC	400 250
Rated frequency	Hz	50
Rated current	A	63
Rated conditional short-circuit current	kA AC kA DC	50 8
For fuse links with power losses per phase	W	5.5
Busbar center-to-center spacing	mm	60
Box terminals for wire connection	mm^2 mm^2 mm^2	Cu 1.5 … 10 (re) Cu 1.5 … 25 (f) Cu 1.5 … 25 (f+AE)
Tightening torque	Nm	3
Material		Temperature-resistant up to min. 120 °C, self-extinguishing acc. to UL 94 min. CTI 200

Selection and ordering data

	Size	Rated current	Rated voltage	Mounting width	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	V	MW	d					
	**NEOZED bus-mounting bases with touch protection, 3P** NEW • For 5/10 mm busbars • 36 mm wide For NEOZED screw caps, NEOZED adapter sleeves and NEOZED fuse links, see chapter "Fuse Systems" "NEOZED fuse systems"									
	D02	63	400	2		**5SG6208**		1	6 units	1CU

Minimum order quantity (PS) or a multiple thereof can be ordered.

Overview



The 3-/5-pole 60 mm compact busbar system for the lower performance range up to 360 A: Device adapters and device holders

Assembly of 3-pole 60 mm compact busbar systems (up to 200/360 A for 12 x 5/10 mm busbars)

	Busbar device adapters for	Size (H x W x D)	Stan-dard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm		d					
	Universal applications, 3-pole								
 8US1651-5DK02	Adapters 32 A, 1 support rail • Rated current I_e - 32 A for IEC applications - 25 A for UL 508 • Rated voltage U_e - 690 V AC for IEC applications - 600 V AC for UL 508 • Minimum order quantity 4 units	160 x 45 x 63	UL 508		**8US1651-5DK02**		1	4 units	1CU
 8US1651-5FK02	Adapters 63 A, 1 support rail • Rated current I_e - 63 A for IEC applications - 65 A for UL 508 • Rated voltage U_e - 690 V AC for IEC applications - 600 V AC for UL 508 • Minimum order quantity 4 units	160 x 54 x 63	UL 508		**8US1661-5FK02**		1	4 units	1CU
 8US1613-4AU01	**3VA10/11 molded case circuit breakers, 3-pole** • With latching function • For rails 12 x 5 mm, 12 x 10 mm • Rated current I_e - 144 A for IEC applications • Rated voltage U_e - 690 V AC for IEC applications 3VA10/11	200 x 77			**8US1613-4AU01**		1	1 unit	1CU

11

You can order this quantity or a multiple thereof.

Accessories

Overview

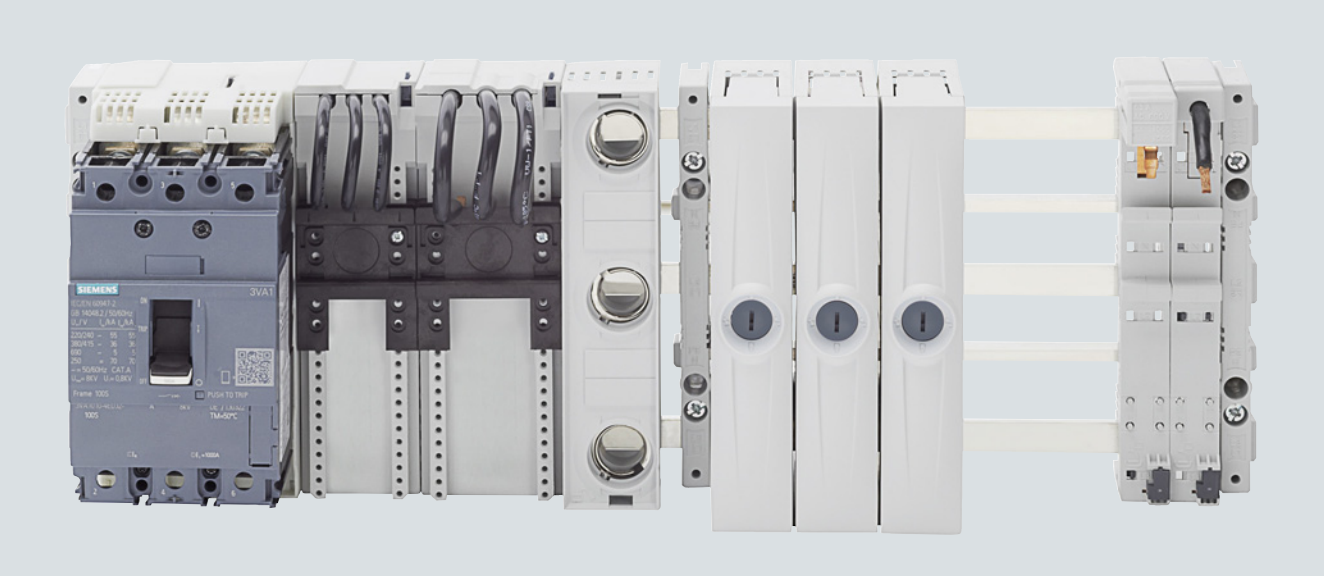
For 12 x 5 mm busbars (up to 200 A)

	Description	Size	Stan-dard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm		d					
 8US1620-5AK02	**Support modules** • Minimum order quantity 6 units	18 x 160 x 54			**8US1620-5AK02**		1	6 units	1CU
 8US1998-2BH02	**Lateral modules** • Minimum order quantity 12 units	9 x 160 x 47			**8US1998-2BH02**		1	12 units	1CU
 8US1998-1AA02	**Module connector set** • For connecting adapters	--			**8US1998-1AA02**		1	1 unit	1CU

11

Minimum order quantity (PS) or a multiple thereof can be ordered.

Overview



The 3-/5-pole 60 mm compact busbar system for the lower performance range up to 360 A: Infeed and connection methods

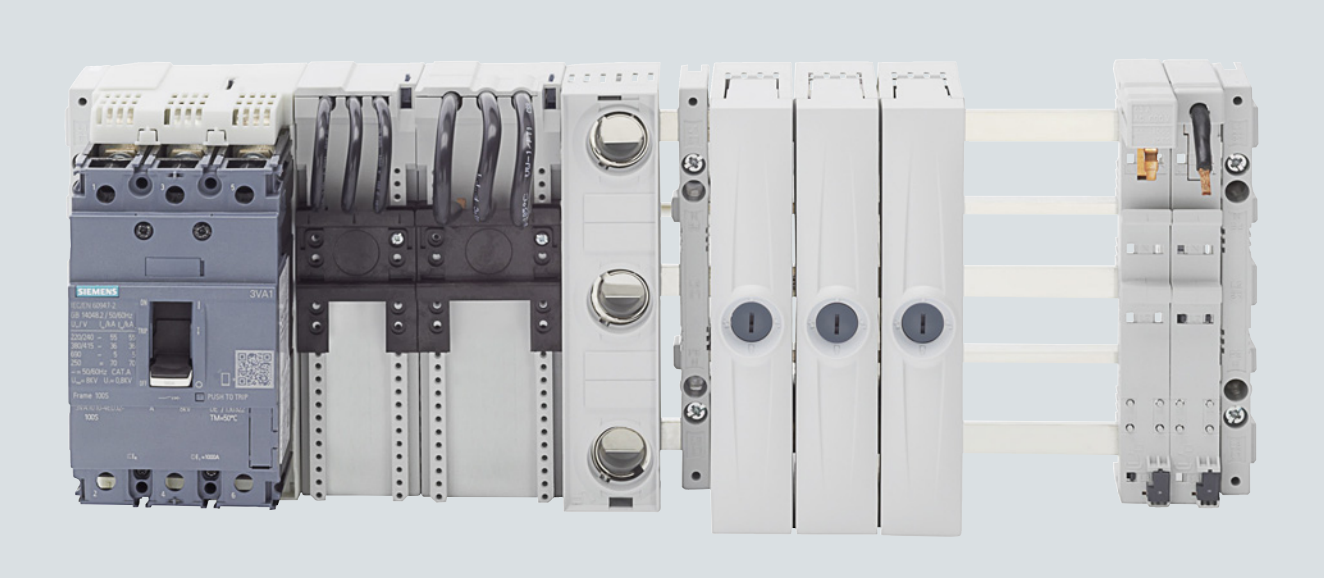
Assembly of 5-pole 60 mm compact busbar systems (up to 200 A for 12 x 5 mm busbars)

	Description	Size	Stan-dard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm		d					
	Infeed system 5-pole for busbar 12 x 5 mm								
	Connecting terminal plates, 3-pole • 10 ... 120 mm² • Rated current I_e - 250 A for IEC applications • Rated voltage U_e - 690 V AC for IEC applications - 600 V AC for UL 508	90 x 160 x 80			**8US1921-1CD02**		1	1 unit	1CU
	N connection modules • Terminals 10 ... 120 mm² • Rated voltage U_e - 690 V AC for IEC applications	30 x 160 x 80			**8US1921-1CE02**		1	1 unit	1CU
	PE connection modules • Terminals 10 ... 120 mm² • Rated voltage U_e - 690 V AC for IEC applications	30 x 160 x 80			**8US1921-1CF02**		1	1 unit	1CU

11

You can order this quantity or a multiple thereof.

Overview



The 3-/5-pole 60 mm compact busbar system for the lower performance range up to 360 A: Device adapters and device holders

Assembly of 5-pole 60 mm compact busbar systems (up to 200 A for 12 x 5 mm busbars)

	Busbar device adapters for	Size	Stan-dard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm		d					
	Universal applications								
 8US1621-2NJ02	Adapters, 1-pole, 32 A • Standard version • Rated current I_e - 32 A for IEC applications • Rated voltage U_e - 690 V AC for IEC applications • Minimum order quantity 12 units	18 x 160 x 73			**8US1621-2NJ02**		1	12 units	1CU
 8US1621-2FK02	Adapters, 1-pole, 63 A • Standard version • Rated current I_e - 63 A for IEC applications • Rated voltage U_e - 690 V AC for IEC applications • Minimum order quantity 12 units	18 x 160 x 73			**8US1621-2FK02**		1	12 units	1CU
 8US1624-2FK02	Adapters, 1-pole, 63 A • For 5SY miniature circuit breakers • Rated current I_e - 63 A for IEC applications • Rated voltage U_e - 690 V AC for IEC applications • Minimum order quantity 12 units	18 x 160 x 82			**8US1624-2FK02**		1	12 units	1CU

Minimum order quantity (PS) or a multiple thereof can be ordered.

Device adapters for 3RM193 fuse module

	Busbar device adapters for	Adapter dimensions W x H x D	Current	Voltage	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	A	V	d					
	**Busbar adapters for 3RM1 Standard**	22.5 x 200 x 41.5	25	690		**8US1216-0AS00**		1	1 unit	1CU
	**Adapter for 3RM1 Compact**	22.5 x 160 x 41.5	25	690		**8US1616-0AK02**		1	1 unit	1CU
	**Busbar adapters for 3RM1 DIN rails**	22.5 x 185 x 23.5	25	690		**8US1716-0RK00**		1	1 unit	1CU

3RM1 universal adapter and for relay

	Busbar device adapters for	Adapter dimensions W x H x D	Current	Voltage	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	A	V	d					
	**Universal busbar adapter Standard**	22.5 x 200 x 122	16	690		**8US1215-5CS10**		1	1 unit	1CU
	**Universal busbar adapter Compact**	22.5 x 160 x 122	16	690		**8US1615-5CK10**		1	1 unit	1CU

Overview

For 12 x 5 mm busbars (up to 200 A)

	Description	Size	Stan-dard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm		d					
 8US1600-0RE02	**N modules** • Terminals 1.5 ... 16 mm^2 • Rated voltage U_e - 690 V AC for IEC applications • Minimum order quantity 12 units	9 x 160 x 114			**8US1600-0RE02**		1	12 units	1CU
 8US1600-0RF02	**PE modules** • Terminals 1.5 ... 16 mm^2 • Rated voltage U_e - 690 V AC for IEC applications • Minimum order quantity 12 units	9 x 160 x 114			**8US1600-0RF02**		1	12 units	1CU
 8US1620-5AK02	**Support modules** • Minimum order quantity 6 units	18 x 160 x 54			**8US1620-5AK02**		1	6 units	1CU
 8US1998-2BH02	**Lateral modules** • Minimum order quantity 12 units	9 x 160 x 47			**8US1998-2BH02**		1	12 units	1CU
 8US1998-1AA02	**Module connector set (1 pack = 100 units)** • For connecting adapters	--			**8US1998-1AA02**		1	1 unit	1CU

11

Minimum order quantity (PS) or a multiple thereof can be ordered.

Overview

The 60 mm busbar system for the medium and top performance range up to 1600 A, here for example with the 3NP1 switch disconnector, size 3

The 60 mm busbar system is used preferably in control cabinet installation, in motor control centers and in power distribution systems of the medium power range (630 A) and top performance range (1600 A, special profile).

The 60 mm busbar system can be configured as a basic system without covers. The busbar cross-sections are available in the sizes 12 x 5 mm to 30 x 10 mm and as a special profile.

Busbar adapters for SIRIUS devices, 3VL circuit breakers, 3KA and 3KL switch disconnectors, and 3NP1 and 3NP5 fuse switch disconnectors offer numerous options for configuring this busbar system. Infeed units, terminals and other accessories open up a large range of applications.

Busbars with a special profile are suitable for applications up to 1600 A. All components of the 60 mm busbar system can be fitted.

SIRIUS motor starter combinations

SIRIUS motor starter combinations can be configured with and without fuses.

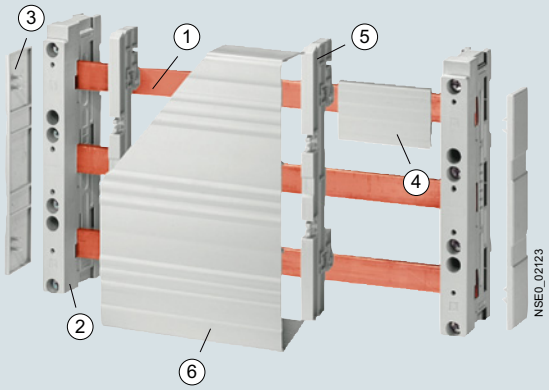
The compact 3NW7...-1 cylindrical fuse holders for IEC fuses, size 10 x 38 mm, or 3NW7...-1HG cylindrical fuse holders for Class CC UL fuses are suitable for use with fused motor starter combinations.

With a width of 45 mm, SIRIUS motor starter combinations are the same width as the majority of contactors.

For more information and accessories,
see chapter "Fuse Systems" ➞ Cylindrical fuse systems ➞ Fuse holders in size 10 x 38 mm and Class CC

Installation configuration of a cylindrical fuse holder and a SIRIUS contactor on busbar device adapter for the 60 mm busbar system

Overview



1 Flat copper profile
2 Busbar supports
3 End cover
4 Cover profile
5 Support for blanking covers
6 Blanking cover

60 mm busbar system: Basic assemblies up to 630 A

Selection and ordering data

Busbar support and end cover

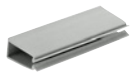
	Description	Connections	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				d					
	② **Busbar supports**								
	End and intermediate holders for flat copper profiles 12, 15, 20, 25, 30 x 5, 10 mm								
	3-pole, with outside fixing	L1–L3			**8US1923-2AA01**		1	10 units	1CU
 8US1923-3AA01	3-pole, with inside fixing	L1–L3			**8US1923-3AA01**		1	10 units	1CU
	4-pole, with inside fixing	L1–L3 + PE/N			**8US1923-4AA00**		1	10 units	1CU
 8US1923-5AA00	2-pole, with outside fixing				**8US1923-5AA00**		1	10 units	1CU
	N/PE busbar supports 12, 20, 30 x 5, 10 mm								
 5SH3540	1-pole, for flat copper profile for 5/10 mm busbars	PE/N			**5SH3540**		1	1 unit	1CU

Minimum order quantity (PS) or a multiple thereof can be ordered.

	Description	Connections	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
				d					
 8US1923-1AA01	**N/PE busbar supports, 6 x 6 mm 12, 15, 20, 25, 30 x 5, 10 mm** 1-pole, for copper profiles for mounting on 8US1923-2AA01 3-pole busbar supports or free standing	PE/N	UL 508		**8US1923-1AA01**		1	1 unit	1CU
 8US1923-3UA01	**End and intermediate holders for flat copper profiles 5 x 20 mm, 10 x 20 mm, 10 x 30 mm** 3-pole, with inside fixing	L1–L3	UL 508[1)]		**8US1923-3UA01**		1	10 units	1CU
 8US1922-1AC00	③ **End covers** For covering free busbar ends • For 8US1923-2AA01, 3AA01 and 3UA01	L1–L3	UL 508		**8US1922-1AC00**		1	10 units	1CU

[1)] Only with base plate 8US1922-2UA01

Covers, supports for blanking covers, flat copper profiles and busbar connection parts

	Description	Length	Width	Depth	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm	mm		d					
 8US1922-2CA00	④ **Cover profiles for busbars** 12 × 5 mm	1000	15	10			**8US1922-2CA00**		1	10 units	1CU
 8US1922-2AA00	15 × 5 mm, 20 × 5 mm, 25 × 5 mm, 30 × 5 mm	1000	40	9	UL 508		**8US1922-2AA00**		1	10 units	1CU
	12 × 10 mm, 15 × 10 mm, 20 × 10 mm, 25 × 10 mm, 30 × 10 mm	1000	40	14	UL 508		**8US1922-2BA00**		1	10 units	1CU
 8US1922-2EA0.	⑤ **Supports for blanking covers** Mounting on busbar, 32 mm depth (2 units per section of blanking cover)				UL 508		**8US1922-2EA00**		1	4 units	1CU
	Mounting on busbar, 107 mm depth (2 units per section of blanking cover)				UL 508		**8US1922-2EA01**		1	8 units	1CU
 8US1922-2EB00	⑥ **Blanking covers** Mounting on 8US1922-2EA.. support for blanking covers Height 195 mm, Depth 63 mm, Length 700 mm				UL 508		**8US1922-2EB00**		1	2 units	1CU

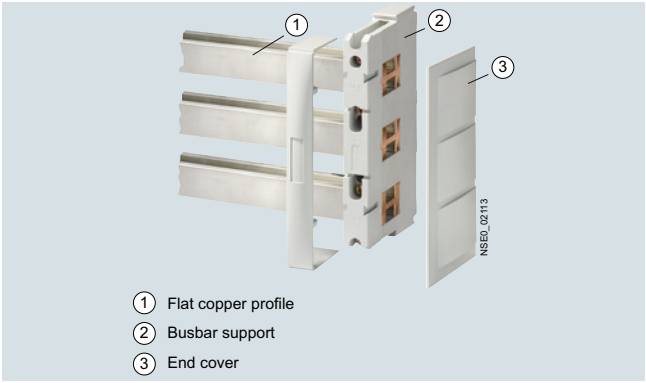
Basic assemblies up to 630 A

	Description	Length	Cross-section	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm^2		d					
 8US1922-2UA01	**Base plates** For 3-pole system, width 240 mm	1100	--	UL 508		**8US1922-2UA01**		1	2 units	1CU
	① **Flat copper profiles (flat profile, bare)** Flat copper profiles for universal applications									
	• 12 × 5 mm, current intensity 200 A	2400	60	EN 12167		**8WC5123**		1	1 unit	1CU
	• 15 × 5 mm, current intensity 250 A	2400	75	EN 12167		**8WC5121**		1	1 unit	1CU
	• 20 × 5 mm, current intensity 320 A	2400	100	EN 12167		**8WC5126**		1	1 unit	1CU
	• 25 × 5 mm, current intensity 400 A	1100	125	EN 12167		**8WC5031-1AA00**		1	1 unit	1CU
	• 25 × 5 mm, current intensity 400 A	2400	125	EN 12167		**8WC5131**		1	1 unit	1CU
	• 30 × 5 mm, current intensity 447 A	1100	150	EN 12167		**8WC5033-1AA00**		1	1 unit	1CU
	• 30 × 5 mm, current intensity 447 A	2400	150	EN 12167		**8WC5133**		1	1 unit	1CU
	• 20 × 10 mm, current intensity 520 A	2400	200	EN 12167		**8WC5128**		1	1 unit	1CU
	• 30 × 10 mm, current intensity 630 A	2400	300	EN 12167		**8WC5134**		1	1 unit	1CU
	① **Flat copper profiles, tinned**									
	• 12 × 5 mm, current intensity 200 A	2000	60	EN 12167		**8WC5051**		1	1 unit	1CU
	• 15 × 5 mm, current intensity 250 A	2000	75	EN 12167		**8WC5052**		1	1 unit	1CU
	• 20 × 5 mm, current intensity 320 A	2000	100	EN 12167		**8WC5053**		1	1 unit	1CU
	• 25 × 5 mm, current intensity 400 A	2000	125	EN 12167		**8WC5054**		1	1 unit	1CU
	• 30 × 5 mm, current intensity 447 A	2000	150	EN 12167		**8WC5055**		1	1 unit	1CU
	• 20 × 10 mm, current intensity 520 A	2000	200	EN 12167		**8WC5063**		1	1 unit	1CU
	• 30 × 10 mm, current intensity 630 A	2000	300	EN 12167		**8WC5065**		1	1 unit	1CU
	For further flat copper profiles, see chapter "Power Distribution Boards / Distribution Boards"									
 8JK320	**Extension terminals** For busbars 12 × 5 mm, tightening torque 6.0 Nm (busbar not included in scope of supply, 1 set = 2 units)	--	--	--		**8JK3201**		1	10 sets	1BR
	Busbar connection pieces for bars									
 8US1921-2BE00	For flat profiles (max. 630 A) 20 × 5 mm, 20 × 10 mm, 25 × 5 mm, 25 × 10 mm, 30 × 5 mm, 30 × 10 mm	40	--	--		**8US1921-2BE00**		1	6 units	1CU
 8US1921-2BF00	For flat profiles (max. 630 A) 12 × 5 mm, 12 × 10 mm, 15 × 5 mm, 15 × 10 mm, 20 × 5 mm, 20 × 10 mm	55	--	--		**8US1921-2BF00**		1	12 units	1CU

11

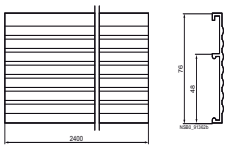
Minimum order quantity (PS) or a multiple thereof can be ordered.

Overview



60 mm busbar system: Basic assembly up to 1600 A

Selection and ordering data

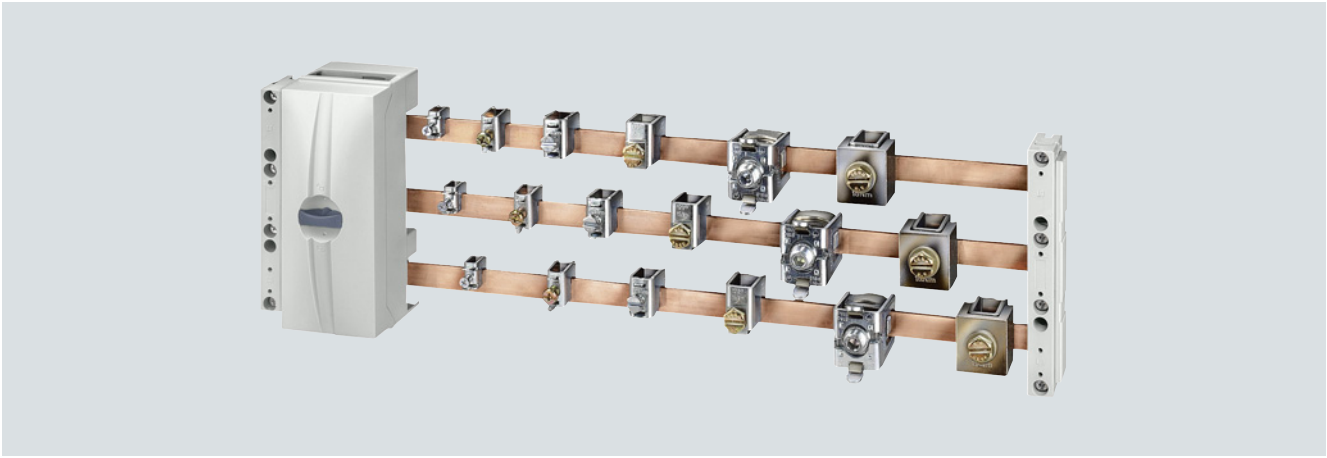
	Description		Standard	SD d	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
 8US1943-3AA00	**Busbar supports** 3-pole, for TT special profiles End and intermediate holder with finger-safe busbar cover (1 pack = 2 busbar supports + finger-safe end covers)	L1–L3	UL 508		**8US1943-3AA00**		1	1 unit	1CU
 8US1948-2AA00	**Flat copper profiles (approx. 2.4 m long, tinned)** TT special profile up to 1600 A, cross-section 720 mm^2				**8US1948-2AA00**		1	1 unit	1CU
 8US1948-2AA00	**Cover profiles** For flat copper profiles, length 1000 mm				**8US1922-2DA00**		1	5 units	1CU
 8US1941-2BF01	**Busbar connection pieces** For special profiles/TT profiles up to 1600 A				**8US1941-2BF01**		1	6 units	1CU
 8US1922-1JA00	**Partitions, closed** 76 mm wide, 2400 mm long For additional lateral touch protection at the top/bottom				**8US1922-1JA00**		1	1 unit	1CU
 8US1922-2EA0.	**Supports (for blanking covers)** Mounting on busbar, 32 mm depth (2 units per section of blanking cover)		UL 508		**8US1922-2EA00**		1	4 unit	1CU
	Mounting on busbar, 107 mm depth (2 units per section of blanking cover)		UL 508		**8US1922-2EA01**		1	8 units	1CU
 8US1922-2EB00	**Blanking covers** Mounting on 8US1922-2EA.. support for blanking covers Height 195 mm, Depth 63 mm, Length 700 mm		UL 508		**8US1922-2EB00**		1	2 units	1CU

11

You can order this quantity or a multiple thereof.

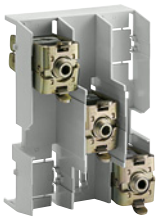
Infeeds and connection methods

Overview



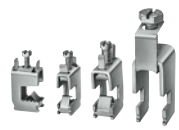
60 mm busbar system: Terminals and covers for infeed and connection methods

Selection and ordering data

	Description	Length	Width	Max. current	Conductor cross-section	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm	A	mm^2		d					
 8US1921-1AA00	**Infeed**											
	Connecting terminal plate with cover											
	• 3-pole	200	20	80	1.5 ...16	UL 508		**5SH3538**		1	5 units	1CU
	• 3-pole	200	54	300	6 ... 50	UL 508		**8US1921-1BA00**		1	1 unit	1CU
	• 3-pole	200	81	400	35 ... 120	UL 508		**8US1921-1AA00**		1	1 unit	1CU
 8US1200-0AA00	**Outgoing modules for PE/N**											
	Connection module for 4th pole (PE/N) up to 16 mm, must be mounted onto adapter/device holder	242	18	--	--	--		**8US1200-0AA00**		1	1 unit	1CU
 5SH3535	**SR60 connecting terminal plates**											
	3-pole with cover, suitable for aluminum conductors (shown without cover)			560	150 ... 300	--		**5SH3535**		1	1 unit	1CU
 8US1941-2AA03	**Terminal sets**											
	3-pole without cover for round cables, suitable for aluminum conductors			560	95 ... 300	UL 508		**8US1941-2AA03**		1	1 unit	1CU

11

Minimum order quantity (PS) or a multiple thereof can be ordered.

	Description	Max. current	Conductor cross-section	Stan-dard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			mm^2		d					
 8US1941-2AA04	**Terminal sets** 3-pole without cover for flat bars up to 32 x 20 mm	800	--	UL 508		**8US1941-2AA04**		1	1 unit	1CU
 8US1922-1GC00	Covers for 8US1941-2AA03/04 terminal set	--	--	--		**8US1922-1GC00**		1	1 unit	1CU
	Terminals for circular conductors									
 Terminals	**Busbar thickness 5 mm**[1] 12 × 5 mm, 15 × 5 mm, 20 × 5 mm, 25 × 5 mm, 30 × 5 mm									
		180	1.5 ... 16			**8US1921-2AA00**		100	100 units	1CU
		270	4 ... 35			**8US1921-2AB00**		100	50 units	1CU
		400	16 ... 70			**8US1921-2AD00**		1	50 units	1CU
		440	16 ... 120			**8US1921-2AC00**		1	50 units	1CU
		180	1.5 ... 16			**8US1921-2AA01**		1	15 units	1CU
		270	4 ... 35			**8US1921-2AB01**		1	15 units	1CU
		400	16 ... 70			**8US1921-2AD01**		1	15 units	1CU
		440	16 ... 120			**8US1921-2AC01**		1	15 units	1CU
 Terminals	**10 mm busbar thickness** 12 × 10 mm,[1] 15 × 10 mm,[1] 20 × 10 mm, 25 × 10 mm, 30 × 10 mm									
		180	1.5 ... 16			**8US1921-2BA00**		1	100 units	1CU
		270	4 ... 35			**8US1921-2BB00**		1	50 units	1CU
		400	16 ... 70			**8US1921-2BD00**		1	50 units	1CU
		440	16 ... 120			**8US1921-2BC00**		1	50 units	1CU
		180	1.5 ... 16			**8US1921-2BA01**		1	15 units	1CU
		270	4 ... 35			**8US1921-2BB01**		1	15 units	1CU
		400	16 ... 70			**8US1921-2BD01**		1	15 units	1CU
		440	16 ... 120			**8US1921-2BC01**		1	15 units	1CU
 8US1941-2AA01	20 × 5 mm, 25 × 5 mm, 30 × 5 mm	500	95 ... 185			**8US1941-2AA01**		1	6 units	1CU
 8US1941-2AA02		600	95 ... 300			**8US1941-2AA02**		1	3 units	1CU

[1] Cannot be used on a special profile up to 1600 A

Infeeds and connection methods

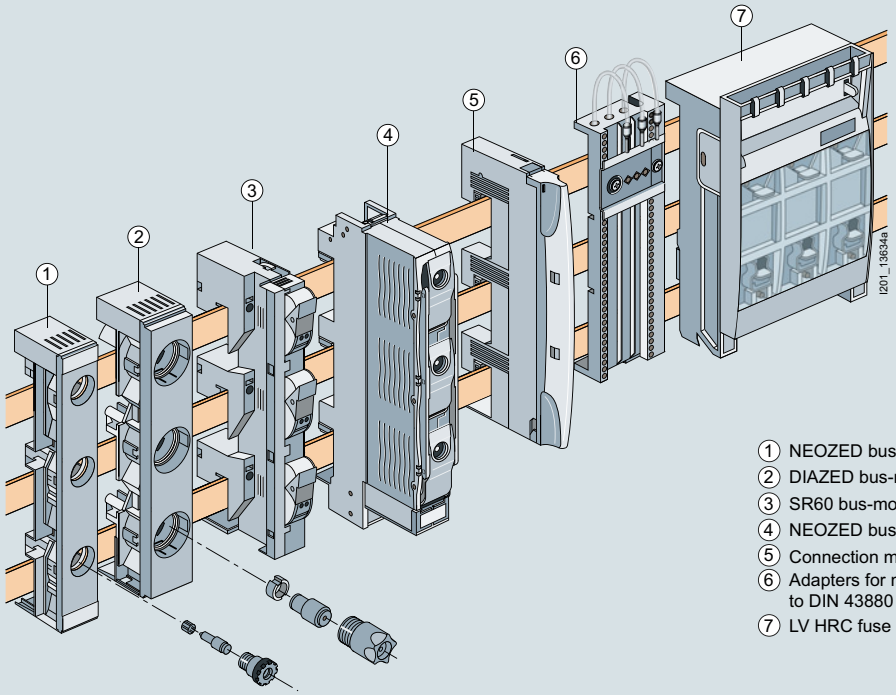
	Description	Max. current	Conductor cross-section	Stan-dard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			mm²		d					
	Terminal covers for circular conductors (fixing to busbar)									
 8US1922-1GA00	For terminals up to 120 mm² 200 mm long, 84 mm wide		--	--		**8US1922-1GA00**		1	10 units	1CU
	For terminals up to 300 mm² [1] 200 mm long, 270 mm wide		--	--		**8US1922-1GA02**		1	1 unit	1CU
	Terminals									
 8US1941-2AC00	For cable lugs up to 240 mm², 10 mm bar thickness (threaded bolts M10)	630	--	--		**8US1941-2AC00**		1	6 units	1CU
 8US1941-2BB00	For copper bars or laminated conductors 20 x 5 mm, 20 x 10 mm, 25 x 5 mm, 25 x 10 mm, 30 x 5 mm, 30 x 10 mm	750	--	--		**8US1941-2BB00**		1	6 units	1CU
 8US1941-2BA00	For 2 x 40 x 10 mm, for TT flat copper profile 30 x 10 mm profile for flat bars up to 40 x 25 mm	1250	--	--		**8US1941-2BA00**		1	3 units	1CU

[1] Only for 20 × 5 mm, 20 × 10 mm, 25 × 5 mm, 25 × 10 mm, 30 × 5 mm and 30 × 10 mm

11

Minimum order quantity (PS) or a multiple thereof can be ordered.

Overview



1. NEOZED bus-mounting bases, 3-pole
2. DIAZED bus-mounting bases, 3-pole
3. SR60 bus-mounting fuse holders, 3-pole
4. NEOZED bus-mounting switch disconnectors, 3-pole
5. Connection modules, three-phase
6. Adapters for modular installation devices according to DIN 43880
7. LV HRC fuse switch disconnectors

NEOZED and DIAZED built-in components

Rail-adaptable built-in components, such as NEOZED and DIAZED bus-mounting bases, adapters for modular installation devices, fuse switch disconnectors and NEOZED bus-mounting fuse switch disconnectors are made of glass-fiber reinforced, thermoplastic polyester. The material ensures the required mechanical, chemical and electrical properties.

Efficient power distribution up to 630 A.
Users have several options for mounting the SR60 busbar system:

1. Mounting in distribution boards

The busbar supports are mounted on longitudinal stays. Once the built-in components are mounted and connected, the touch protection cover (section cover) protects against accidental contact with live parts.

2. Mounting in industrial control panels

The demand for comprehensive touch protection has generated new solutions: Built-in components, such as busbar fuse bases have integrated reach-through guards, enabling the implementation of cost-effective overall solutions.

Previously two optional solutions were provided, which can now be replaced using new technology: Touch protection via base and edges or touch protection via partitions.

Higher overall efficiency and cost savings in the plant engineering industry.

Fuse holders, fuse switch disconnectors, switch disconnectors with fuse and 16 mm^2 connection modules with screwless terminals are available; this offers users maximum safety and comfort.

Class CC and Class J fuse systems

Class CC and Class J fuse links according to the UL and CSA standards are used for "branch circuit protection" and in the "feeder circuit". Different characteristics are available for different applications.

The Class CC and Class J 30 A and 60 A fuse holders are modular installation devices for mounting on a DIN rail (standard mounting rail) that are available in one-, two- and three-pole versions. A three-pole device for mounting Class CC fuses on a 60 mm busbar system is also available.

The Class J 100 A, 200 A and 400 A fuse holders are available as versions either for screwing onto a mounting plate or for directly mounting on the 60 mm busbar system.

We do not currently offer any fuse holders for the 500 A and 600 A Class J fuse links. The fuse links can be optionally mounted on busbars.

The fuse holders for cylindrical fuses, size 10 x 38 and for American fuses, Class CC and Class J, can be used in the international plant engineering industry. In addition, Siemens offers a broad range of UL-approved components for the design of switchboards according to UL 508 A.

Advantages:

- For switchboard assemblies and machine manufacturers who export their switchboards to the USA or Canada.
- Easier export due to UL and CSA approvals
- Modern fuse holder design with touch protection to BGV A3 ensures safe installation.
- Fuse holders up to 200 A enable fuses to be changed in the de-energized state.
- Efficient power distribution thanks to mounting the devices on 60 mm busbar system.

For more information

For more information, see chapter "Fuse Systems".

Built-in components

Planning dimensions

	Width mm	Width MW
NEOZED bus-mounting bases D02		
Covers	27	1.5
Covers, extra wide	36	2.0
Covers, double width	54	3.0
DIAZED bus-mounting bases DII		
Covers	42	2.3
DIAZED bus-mounting bases DIII		
Covers	57	3.2
NEOZED bus-mounting switch disconnectors	27	1.5
LV HRC fuse switch disconnectors size 00	108	6
Bus-mounting fuse holders	27	1.5
Class J bus-mounting fuse holders		
100 A	106	5.9
200 A	184	10.2
400 A	256	14.2

Benefits

- The direct contact of the rail-adaptable switching and installation devices on the Cu busbars reduces distribution panels and mounting times
- Compared to conventional installation, the transfer resistance of the connections is drastically reduced. This prevents unnecessary temperature rise
- New built-in components with touch protection ensure comprehensive touch protection without the previously required partitions
- International application due to UL-approved components
- Enhanced effectiveness and increased safety due to screwless terminals

Minimum order quantity (PS) or a multiple thereof can be ordered.

Technical specifications

Bus-mounting bases

		NEOZED SR60 bus-mounting bases		DIAZED SR60 bus-mounting bases	
		5SG6202 5SG6206 5SG6207		5SF6014 5SF6015 5SF6020	5SF6214 5SF6215 5SF6220
		D01	D02	DII	DIII
Standards		IEC 60269-3, DIN VDE 0636-3			
Rated voltage	V AC V DC	400 250		500 --	690 600
Rated frequency	Hz	50			
Rated current	A	16 (with 5SH5400 retaining springs)	63	25	63
Rated conditional short-circuit current	kA AC kA DC	50 8		50 8	
For fuse links with power losses per phase	W	2.5	5.5	4	7
Busbar center-to-center spacing	mm	60		60	
Box terminals for wire connection	mm^2	1.5 … 10 (re)		1.5 … 10 (re)	
	mm^2	1.5 … 25 (f)		1.5 … 35 (f)	
	mm^2	1.5 … 25 (f+AE)		1.5 … 35 (f+AE)	
Tightening torque	Nm	3		4	
Material		Temperature-resistant up to min. 125 °C, self-extinguishing acc. to UL 94, CTI 600		Temperature-resistant up to min. 125 °C, self-extinguishing acc. to UL 94, min. CTI 225	

Bus-mounting fuse holders

		3NW7431	3NW7431-0HG
Standards		IEC 60269-2, IEC 60947-3 UL 512, CSA C22.2	UL 512, CSA C22.2
Approvals		, CSA	UL, CSA
Size		10 × 38	Class CC
Rated frequency	Hz	50/60	
Max. rated voltage U_e			
• IEC/EN	V AC	690	--
• UL/CSA	V AC	600	600
Max. rated operating current I_e (When several devices are used next to each other, it is essential to comply with the rated load factor according to EN 60439-1 (VDE 0660-500), Table 1.)			
• IEC/EN	A	32	--
• UL/CSA	A	30	30
Utilization categories			
• IEC/EN		AC-22B (500 V) AC-21B (690 V, 30 A)	
• UL/CSA		Can only be used as fuse holder	
Rated conditional short-circuit current (Type-tested with fuse links, operational class gG)			
• IEC/EN	kA	100 (400 V, 500 V, 690 V)	--
• UL/CSA	kA	50 (600 V)	200
For fuse links with power losses per phase	W	3	--
Screwless wire connections			
• IEC/EN	mm^2	Cu 1.5 … 6 (f)	
• UL/CSA	AWG	16 … 10 (str)	

11

You can order this quantity or a multiple thereof.

Built-in components

Bus-mounting switch disconnectors with fuses

		5SG7230	5SG7234-1 5SG7234-2
Standards		HD 60269-3 (VDE 0636-3), IEC 60269-3, EN 60947-3 (VDE 0660-107), IEC 60947-3	
Approvals		VDE, EAC	
Size		D02 (D01)	D02
Rated frequency	Hz	50/60	50/60
Rated voltage U_e	V AC V DC	400 110	400
Rated insulation voltage U_i	V	800	500
Rated impulse withstand voltage U_{imp}	kV	6	6
Rated current I_e	A	63[1)]	63[2)]
Utilization categories (Type-tested with 3-pole, switchable version)		AC-23A (400 V) DC-21B (48 V), 1-pole DC-21B (110 V), 2-pole	AC-22 B (400 V)
Box terminals for wire connection	mm^2 mm^2 mm^2	Cu 1.5 … 6 (re) Cu 1.5 … 16 (f) Cu 1.5 … 16 (f+AE)	Cu 1.5 … 6 (re) Cu 1.5 … 16 (f) Cu 1.5 … 16 (f+AE)
Signaling switches for the display of switching positions		1 CO	LED signal detector (5SG7234-2)
Cable terminals		Bottom	On side (right)
Busbar thickness	mm	Through combination foot for 5, 10 mm	
Rated conditional short-circuit current (Type-tested with fuse links of operational class gG)	kA AC kA DC	50 8	50
Permissible power loss of fuse links per phase For stand-alone operation without lateral modules or for group operation with lateral modules	W	5.5	5.5
Material		Temperature-resistant up to min. 125 °C, self-extinguishing acc. to UL 94, min. CTI 125	Temperature-resistant up to min. 120 °C self-extinguishing according to UL 94 min. CTI 200

1) In the case of permanent load over 35 A, we recommend the use of 5SH5526 lateral modules. Please observe EN 60439-1, Table 1.

2) In the case of permanent load over 35 A, we recommend the use of 5SH5533 lateral modules. Please observe EN 60439-1, Table 1.

11

Selection and ordering data

	Size	Rated current	Rated voltage	Mounting width	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	V	MW/mm	d					
	**NEOZED SR60 bus-mounting bases with touch protection, 3P** For 5/10 mm busbars									
	27 mm wide									
	D02	63	400	1.5		**5SG6206**		1	4 units	1CU
	36 mm wide									
	D02	63	400	2		**5SG6207**		1	4 units	1CU
	**NEOZED SR60 bus-mounting bases, 3P standard version** For 5/10 mm busbars									
	D02	63	400	1.5		**5SG6202**		1	4 units	1CU

Minimum order quantity (PS) or a multiple thereof can be ordered.

	Size	Rated current	Rated voltage	Mounting width	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	V	MW/ mm	d					
	**NEOZED SR60 covers for standard version**									
	D02			1.5		**5SH5241**		1	4 units	1CU
	D02, extra wide			2		**5SH5242**		1	4 units	1CU
	D02, with double width			3		**5SH5243**		1	4 units	1CU
	**DIAZED SR60 bus-mounting bases with touch protection, 3P**									
	For use with DIAZED screw adapters									
	DII	25	500	2.3		**5SF6020**		1	4 units	1CU
	DIII	63	500 V AC/DC (according to DIN VDE 0636-3 also 690 V AC/600 V DC)	3.2		**5SF6220**		1	4 units	1CU
	**DIAZED SR60 bus-mounting bases, 3P standard version**									
	For use with DIAZED screw adapters									
	DII	25	500	2.3		**5SF6015**		1	2 units	1CU
	DIII	63	500 V AC/DC (according to DIN VDE 0636-3 also 690 V AC/600 V DC)	3.2		**5SF6215**		1	2 units	1CU
	**DIAZED SR60 covers for standard version**									
	DII			2.3		**5SH2042**		1	2 units	1CU
	DIII			3.2		**5SH2242**		1	2 units	1CU
	**SR60 bus-mounting fuse holders, 3P**									
	For 5/10 mm busbars with screwless terminals									
	For cylindrical fuses, 10 × 38 mm									
	--	30	690	1.5		**3NW7431**		1	1 unit	1CU
	For UL fuses, Class CC									
	--	30	600	1.5		**3NW7431-0HG**		1	1 unit	1CU

For NEOZED screw caps, NEOZED adapter sleeves and NEOZED fuse links, see chapter "Fuse Systems" "NEOZED fuse systems"

11

Built-in components

	Size	Rated current	Rated voltage	Mounting width	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		A	V	MW/ mm	d					
	**NEOZED SR60 bus-mounting switch disconnectors, 3P** For 5/10 mm busbars									
	D02	63*	400	1.5		**5SG7230**		1	1 unit	1CU
	* From 35 A load use 5SH5526 lateral module									
	**NEOZED SR60 bus-mounting switch disconnectors, 3P** NEW For 5/10 mm busbars, with screwless terminals									
	• without LED signal detector									
	D02	63*	400	1.5		**5SG7234-1**		1	1 unit	1CU
	• with LED signal detector									
	D02	63*	400	1.5		**5SG7234-2**		1	1 unit	1BM
	* From 35 A load use 5SH5533 lateral module									
	**Class J bus-mounting fuse holders, 3P** NEW For 5/10 mm busbars, UL,CSA, cURus									
		100	600	106		**3NW7431-6HG**		1	1 unit	1DN
		200	600	184		**3NW7431-7HG**		1	1 unit	1DN
		400	600	256		**3NW7431-8HG**		1	1 unit	1DN

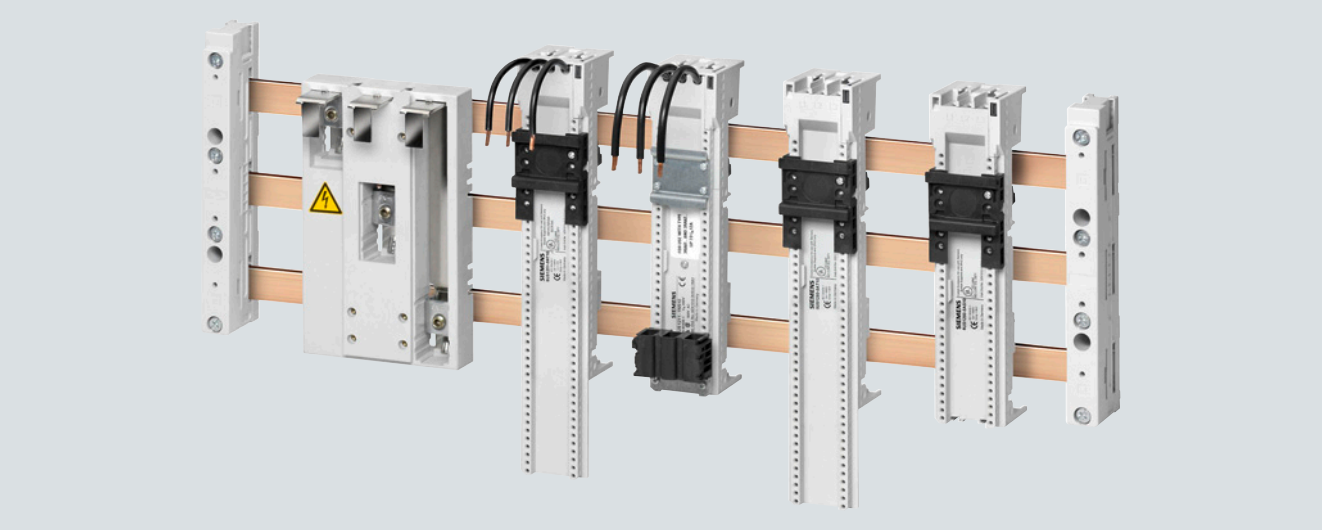
For Class J fuse links and more information on Class J fuse holders:
see chapter "Fuse Systems"

Other accessories

	Version	Mounting width	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		MW	d					
 5SH5525	**Auxiliary switches for signaling the switching state for NEOZED SR60 bus-mounting switch disconnectors (5SG7230)**							
	1 CO	0.5		**5SH5525**		1	1 unit	1CU
 5SH5526	**Lateral modules** For greater heat dissipation for loads from 35 A with 5SG7230 bus-mounting switch disconnectors	0.5		**5SH5526**		1	5 units	1CU
5SH5533	**Lateral modules** NEW For greater heat dissipation for loads from 35 A with 5SG7 234-1 and 5SG7 234-2 bus-mounting switch disconnectors	0.5		**5SH5533**		1	5 units	1CU
 5SH5527	**Reducers** For NEOZED fuse links D01 in SR60 bus-mounting switch disconnectors	--		**5SH5527**		1	10 units	1CU

Minimum order quantity (PS) or a multiple thereof can be ordered.

Overview



60 mm busbar system: Busbar device adapters and device holders

All busbar device adapters and device holders are designed for copper busbars according to DIN 46433, width 12 to 30 mm, thickness 5 mm and 10 mm, and special profiles up to 1600 A.

Selection and ordering data

For SIRIUS 3RV2/3RT2 load feeders

Welded connecting cable resistant up to 150 °C

	Busbar device adapters for	Number of support rails (35 mm)	Adapters Length	Adapters Width	Connecting cable Cross-section	Connecting cable Temperature max.	Rated current	Rated voltage	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			mm	mm	AWG	°C	A	V		d					
	Size S00 devices with screw connection														
	Circuit breakers	1	200	45	12	150	25	690 600[1)]	UL 508		**8US1251-5DS10**		1	1 unit	1CU
	Direct-on-line starters	1	200	45	12	150	25	690 600[1)]	UL 508		**8US1251-5DS10**		1	1 unit	1CU
		1	260	45	12	150	25	690 600[1)]	UL 508		**8US1251-5DT10**		1	1 unit	1CU
	Reversing starters	1	200	45	12	150	25	690 600[1)]	UL 508		**8US1251-5DS10**		1	1 unit	1CU
Device holder with 3RA2120	+ Device holders	1	200	45	--	--	--	--	UL 508		+ **8US1250-5AS10**		1	1 unit	1CU
	Size S00 devices with spring-type terminals														
	Circuit breakers	1	200	45	12	150	25	690 600[1)]	UL 508		**8US1251-5DS11**		1	1 unit	1CU
	Circuit breakers	1	260	45	12	150	25	690 600[1)]	UL 508		**8US1251-5DT11**		1	1 unit	1CU
	Direct-on-line starters	1	260	45	12	150	25	690 600[1)]	UL 508		**8US1251-5DT11**		1	1 unit	1CU
	Reversing starters	1	260	45	12	150	25	690 600[1)]	UL 508		**8US1251-5DT11**		1	1 unit	1CU
Device holder with 3RA2120	+ Device holders	1	260	45	--	--	--	--	UL 508		+ **8US1250-5AT10**		1	1 unit	1CU

[1)] Value applies to UL 508

11

Device adapters and device holders

	Busbar device adapters for	Number of support rails (35 mm)	Adapters Length	Adapters Width	Connecting cable Cross-section	Connecting cable Temperature max.	Rated current	Rated voltage	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			mm	mm	AWG	°C	A	V		d					
	Size S0 devices with screw connection														
 Device holder with 3RA2220	Circuit breakers	1	200	45	12	150	25	690 600[1)]	UL 508		**8US1251-5DS10**		1	1 unit	1CU
	Circuit breakers NEW	1	200	45	10	150	32	690 600[1)]	UL 508		**8US1251-5NS10**		1	1 unit	1CU
	Circuit breakers	1	260	45	10	150	32	690 600[1)]	UL 508		**8US1251-5NT10**		1	1 unit	1CU
	Direct-on-line starters	1	260	45	10	150	32	690 600[1)]	UL 508		**8US1251-5NT10**		1	1 unit	1CU
	Reversing starters	1	260	45	10	150	32	690 600[1)]	UL 508		**8US1251-5NT10**		1	1 unit	1CU
	+										+				
	Device holders	1	260	45	--	--	--	--	UL 508		**8US1250-5AT10**		1	1 unit	1CU
	Size S0 devices with spring-type terminals														
 Device holder with 3RA2220	Circuit breakers NEW	1	200	45	10	150	32	690 600[1)]	UL 508		**8US1251-5NS11**		1	1 unit	1CU
	Circuit breakers	1	260	45	10	150	32	690 600[1)]	UL 508		**8US1251-5NT11**		1	1 unit	1CU
	Direct-on-line starters	1	260	45	10	150	32	690 600[1)]	UL 508		**8US1251-5NT11**		1	1 unit	1CU
	Reversing starters	1	260	45	10	150	32	690 600[1)]	UL 508		**8US1251-5NT11**		1	1 unit	1CU
	+										+				
	Device holders	1	260	45	--	--	--	--	UL 508		**8US1250-5AT10**		1	1 unit	1CU
	Size S2 devices														
	Circuit breakers	1	200	54	4	150	80	690 600[1)]	UL 508		**8US1261-5MS13**		1	1 unit	1CU
	Direct feeders	1	260	54	4	150	65	690 600[1)]	UL 508		**8US1261-6MT10**		1	1 unit	1CU
	Reversing feeders	1	260	119	4	150	65	690 600[1)]	UL 508		**8US1211-6MT10**		1	1 unit	1CU
	Vibration & shock kit S2 NEW										**8US1998-1DA10**		1	1 unit	1CU

[1)] Value applies to UL 508

Minimum order quantity (PS) or a multiple thereof can be ordered.

For SIRIUS 3RV1/3RT1 load feeders

	Busbar device adapters for	Number of support rails (35 mm)	Adapters Length	Adapters Width	Connecting cable Cross-section	Connecting cable Temperature max.	Connecting cable Rated current	Connecting cable Rated voltage	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			mm	mm	AWG	°C	A	V		d					
 Device holder	**Size S3 devices with screw connection** Busbar device adapter with connecting cables for contact with busbars, welded connecting cable resistant up to 150 °C														
	Circuit breakers	--	215	72	4	150	80	600	UL 508		**8US1211-4TR00**		1	1 unit	1CU

Lateral modules for busbar device adapters

	Description	Length	Width	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm	d					
	**Lateral modules** For extending busbar device adapters and device holders of the same length	200	9		**8US1998-2BJ10**		1	10 units	1CU

11

Device adapters and device holders

For circuit breakers and switch disconnectors which require busbar device adapters for mounting on busbars

	Busbar device adapters for	Adapters Length	Adapters Width	Connecting cable Type	Connecting cable Rated current	Connecting cable Rated voltage	Stan-dard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm		A	V		d					
	3VA molded case circuit breakers, 3 pole												
 8US1240-5MA00	NGG, HGG, LGG NEW	200	81	Screw connection, AWG 4	80	600	UL 508		**8US1240-5MA00**		1	1 unit	1CU
 8US1211-4SS00	3VA51, NGG, HGG, LGG NEW	200	90	Cu laminated 6 x 9 x 0.8 mm	125	600	UL 508		**8US1211-4SS00**		1	1 unit	1CU
 8US1213-4AU01	3VA10/11	200	77	Busbars	144	690			**8US1213-4AU01**		1	1 unit	1CU
 8US1213-4AP03	3VA12/20/21/22	240	105	Tubular contacts	250	690			**8US1213-4AP03**		1	1 unit	1CU
	3VA52/61/62	240	105	Tubular contacts	250	600	UL 508		**8US1213-4AP03**		1	1 unit	1CU
 8US1213-4AH04	3VA23, 3VA24	300	140	Tubular contacts	590	690			**8US1213-4AH04**		1	1 unit	1CU
	3VA63 3VA64	300	140	Tubular contacts	600	600	UL 508		**8US1213-4AH04**		1	1 unit	1CU
	3VL molded case circuit breakers[1], 3-pole												
 8US1011-4SL01	3VL1[2]	175	108	Busbars	160	690			**8US1211-4SL01**		1	1 unit	1CU
	3VL2[2]	175	108	Busbars	160	690			**8US1211-4SL01**		1	1 unit	1CU
	3VL3[3]	175	108	Busbars	250	690			**8US1211-4SL00**		1	1 unit	1CU
	3VL1 to 3VL4 and also with RCD module[2] see chapter "Molded Case Circuit Breakers"	320	184	M10 pin connector	400	690			**8US1210-4AF00** + **8US1927-4AF01**		1	1 unit	1CU
	3VL5	325	184	Tubular contacts	580	690			**8US1213-4AF00**		1	1 unit	1CU

Footnotes, see next page.

Minimum order quantity (PS) or a multiple thereof can be ordered.

	Busbar device adapters for	Adapters Length	Adapters Width	Connecting cable Type	Connecting cable Rated current	Connecting cable Rated voltage	Stan-dard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm		A	V		d					
	3VL UL circuit breakers, 3-pole												
 8US1213-4AQ01	VL150X UL CG frame	190	105	Tubular contacts	150	690 600[4]	UL 508		**8US1213-4AQ01**		1	1 unit	1CU
	VL150 UL DG frame	190	105	Tubular contacts	150	690 600[4]	UL 508		**8US1213-4AQ03**		1	1 unit	1CU
	VL250 UL FG frame	190	105	Tubular contacts	250	690 600[4]	UL 508		**8US1213-4AQ03**		1	1 unit	1CU
 8US1213-4AH00	VL400 UL JG frame	296	140	Tubular contacts	400	690 600[4]	UL 508		**8US1213-4AH00**		1	1 unit	1CU
	VL400X UL LG frame	296	140	Tubular contacts	540	690 600[4]	UL 508		**8US1213-4AH00**		1	1 unit	1CU
	3KA and 3KL switch disconnectors, 3-pole												
	3KA52[5] 3KA53[5] 3KL52[5] 3KL53[5]	320	184	M10 pin connector	630	690			**8US1210-4AF00**		1	1 unit	1CU
	3KA55[5] 3KA57[5] 3KA58[5] 3KL55[5] 3KL57[5]	320	250	M10 pin connector	630	690			**8US1210-4AG00**		1	1 unit	1CU
	3NP5 fuse switch disconnectors, 3-pole												
	3NP5060 (NH00)	175	108	Busbars	160	690			**8US1291-4SB00**		1	1 unit	1CU
	3NP52 3NP53 3NP54[6]	320	250	M10 pin connector	630	690 600[4]	UL 508		**8US1210-4AG00**		1	1 unit	1CU
	3VA molded case circuit breakers, 4-pole NEW												
 8US1313-4AH03	3VA12	270	140	Tubular contacts	250	690			**8US1313-4AH03**		1	1 unit	1CU
 8US1313-4AM04	3VA23/24	300	185	Tubular contacts	590	690			**8US1313-4AM04**		1	1 unit	1CU

1) Observe the short-circuit strength of the busbar system: Short-circuit strength > 50 kA on request.

2) Usable only for 3VL circuit breakers with line-side box terminals.

3) Only for 3VL 250 A circuit breakers, for screw fixing with metric thread, for flat terminals.

4) Value applies to UL 508.

5) Without connecting cables. The connecting cable between adapter and device should be manufactured in accordance with the rated current as a round cable, e.g. H07V-R with cable lug, or as a flat conductor for an M10 pin connector.

6) Without connecting cables. The connecting cable between adapter and device should be manufactured in accordance with the rated current as a round cable, e.g. H07V-R, bared at both ends for tunnel terminals.

Device adapters and device holders

For SIRIUS 3RA6 compact starters according to IEC and UL

Welded connecting cable resistant up to 105 °C

	Busbar device adapter for	Number of support rails (35 mm)	Adapters Length	Adapters Width	Connecting cable Cross-section	Connecting cable Temperature max.	Connecting cable Rated current	Rated voltage	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
			mm	mm	AWG	°C	A	V		d					
 Device holder	**Size equivalent to 3RA61**														
	Direct-on-line starters	1	200	45	10	105	32	690	UR, CSA		**8US1211-1NS10**		1	1 unit	1CU
 Device holder	**Size equivalent to 3RA62**														
	Reversing starters	1	200	45	10	105	32	690	UR, CSA		**8US1211-1NS10**		1	1 unit	1CU
	+										+				
	Device holders	1	200	45	--	--	--	--	UL 508		**8US1250-1AA10**		1	1 unit	1CU

11

Minimum order quantity (PS) or a multiple thereof can be ordered.

For universal device design

	Number of support rails (35 mm)	Adapters Length	Adapters Width	Connecting cable Cross-section	Connecting cable Temperature max.	Connecting cable Length	Connecting cable Rated current	Connecting cable Rated voltage	Standard	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm	AWG	°C	mm	A	V		d					
	Devices 45 mm wide														
	Device holder for side mounting onto busbar device adapter, no electrical contact														
 8US1250-1AA10	1	200	45	--	--	--	--	--	UL 508		**8US1250-1AA10**		1	1 unit	1CU
 8US1250-5AS10	1	200	45	--	--	--	--	--	UL 508		**8US1250-5AS10**		1	1 unit	1CU
 8US1250-5AT10	1	260	45	--	--	--	--	--	UL 508		**8US1250-5AT10**		1	1 unit	1CU
	Devices 45 mm and 72 mm wide														
	Busbar device adapter with connecting cables for contact with busbars, welded connecting cable resistant up to 150 °C														
 8US1261-5MS13	1	200	45	12	150	167	25	690/600[1]	UL 508		**8US1251-5DS11**		1	1 unit	1CU
	1	200	45	12	150	99	25	690/600[1]	UL 508		**8US1251-5DS10**		1	1 unit	1CU
	1	200	45	10	105	118	32	690/600[1]	UL 508		**8US1211-1NS10**		1	1 unit	1CU
	1 NEW	200	45	10	150	99	32	690/600[1]	UL 508		**8US1251-5NS10**		1	1 unit	1CU
	1 NEW	200	45	10	150	167	32	690/600[1]	UL 508		**8US1251-5NS11**		1	1 unit	1CU
	1	200	54	4	150	150	80	690/600[1]	UL 508		**8US1261-5MS13**		1	1 unit	1CU
 8US1261-6MT10	--	215	72	4	105	210	100	690/600[1]	UL 508		**8US1211-4TR00**		1	1 unit	1CU
	1	260	45	12	150	99	25	690/600[1]	UL 508		**8US1251-5DT10**		1	1 unit	1CU
	1	260	45	12	150	167	25	690/600[1]	UL 508		**8US1251-5DT11**		1	1 unit	1CU
	1	260	45	10	150	99	32	690/600[1]	UL 508		**8US1251-5NT10**		1	1 unit	1CU
	1	260	45	10	150	167	32	690/600[1]	UL 508		**8US1251-5NT11**		1	1 unit	1CU
	1	260	54	4	150	150	80	690/600[1]	UL 508		**8US1261-6MT10**		1	1 unit	1CU
	1	260	119	4	150	150	80	690/600[1]	UL 508		**8US1211-6MT10**		1	1 unit	1CU
	Lateral modules														
	For extending busbar device adapters and device holders of the same length														
 8US1998-2BJ10	--	200	9	--	--	--	--	--			**8US1998-2BJ10**		1	10 units	1CU

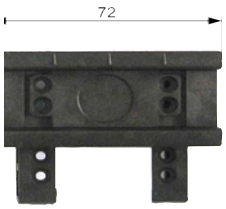
[1] Value applies to UL 508.

Selection and ordering data

Accessories for SIRIUS 3RV2/3RT2 load feeders

Accessories for SIRIUS 3RV2/3RT2 load feeders are designed for:

- 60 mm 8US busbar system (Cu busbars according to DIN 46433)
- Width 12 to 30 mm, thickness 5 and 10 mm
- And special profiles of up to 1600 A

	Description	Length	Width	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm	d					
	Busbar connection pieces for bars								
 8US1921-2BE00	20 x 5 mm, 20 x10 mm, 25 x 5 mm, 25 x10 mm, 30 x 5 mm, 30 x 10 mm	40	--		**8US1921-2BE00**		1	6 units	1CU
 8US1921-2BF00	12 x 5 mm, 12 x 10 mm, 15 x 5 mm, 15 x 10 mm, 20 x 5 mm, 20 x 10 mm	55	--		**8US1921-2BF00**		1	12 units	1CU
	Support rails (35 mm)								
	Support rails made of plastic with fixing screws	--	45		**8US1998-7CB45**		1	10 units	1CU
	Support rails made of plastic with fixing screws	--	54		**8US1998-7CB54**		1	10 units	1CU
	Support rails made of plastic with fixing screws	--	72		**8US1998-7CB72**		1	10 units	1CU

Minimum order quantity (PS) or a multiple thereof can be ordered.

	Description	Length	Width	SD	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS	PG
		mm	mm	d					
	**Positioning pieces** NEW For pushing on, secures the adaptable devices on the adapter								
	• for 45 mm adapters	--	45		**8US1998-1DA45**		1	10 units	1CU
	• for 54 mm adapters	--	54		**8US1998-1DA54**		1	10 units	1CU
	**Connecting elements** For connecting busbar adapters and device holders	--	--		**8US1998-1AA10**		1	50 units	1CU
	**Spacers** Fix the feeder to the busbar adapter	--	--		**8US1998-1BA10**		1	50 units	1CU
	Vibration & shock kit				**8US1998-1CA10**		1	2 units	1CU
	**Lateral modules** For extending busbar device adapters and device holders of the same length	200	9		**8US1998-2BJ10**		1	10 units	1CU

Notes

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

- the "General Terms of Payment"[1)] and
- for software products, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany"[1)] and
- the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1)] for other deliveries and services.

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

- the "General Terms of Payment"[1)] and
- for software products, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office outside of Germany"[1)] and
- the "General Conditions for Supplies of Siemens Industry for Customers with a Seat or Registered Office outside of Germany"[1)] for other deliveries and services.

2. Prices

The prices are in € (Euro) 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.

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.

Export of the products listed in this catalog may be subject to authorization. In delivery information, we label authorization obligations according to German, European and US export lists. Goods labeled with an "AL" not equal to "N" are subject to European or German export authorization when being exported out of the EU. Goods labeled with "ECCN" not equal to "N" are subject to a US re-export authorization.

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.

Even if goods are not labeled, or labeled "AL:N" or "ECCN:N", they may still be subject to export authorization based on the final destination and end use of the goods.

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.

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

Notes

Catalogs

Digital Factory, Process Industries and Drives and Energy Management

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

Interactive Catalog on DVD	*Catalog*
Products for Automation and Drives	**CA 01**

Building Control	
GAMMA Building Control	ET G1

Drive Systems	
SINAMICS G130 Drive Converter Chassis Units SINAMICS G150 Drive Converter Cabinet Units	D 11
SINAMICS GM150, SINAMICS SM150 Medium-Voltage Converters	D 12
Digital: SINAMICS PERFECT HARMONY GH180 Medium-Voltage Air-Cooled Drives (Germany Edition)	*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 SINAMICS S120 Cabinet Modules SINAMICS S150 Converter Cabinet Units	D 21.3
SINAMICS S120 and SIMOTICS	D 21.4
SINAMICS DCM DC Converter, Control Module	D 23.1
SINAMICS Inverters for Single-Axis Drives · Built-In Units	D 31.1
SINAMICS Inverters for Single-Axis Drives · Distributed Inverters	D 31.2
Digital: SINAMICS S210 Servo Drive System	*D 32*
Digital: SINAMICS V90 Basic Servo Drive System	*D 33*
SINAMICS G120P and SINAMICS G120P Cabinet pump, fan, compressor converters	D 35
LOHER VARIO High Voltage Motors Flameproof, Type Series 1PS4, 1PS5, 1MV4 and 1MV5 Frame Size 355 to 1000, Power Range 80 to 7100 kW	D 83.2
Digital: Three-Phase Induction Motors SIMOTICS HV, SIMOTICS TN	*D 84.1*
Digital: Three-Phase Induction Motors SIMOTICS HV	*D 84.3*
High Voltage Three-phase Induction Motors SIMOTICS HV Series A-compact PLUS	D 84.9
Digital: Modular Industrial Generators SIGENTICS M	*D 85.1*
Three-Phase Induction Motors SIMOTICS HV, Series H-compact	D 86.1
Synchronous Motors with Permanent-Magnet Technology, HT-direct	D 86.2
DC Motors	DA 12
SIMOVERT PM Modular Converter Systems	DA 45
MICROMASTER 420/430/440 Inverters	DA 51.2
MICROMASTER 411/COMBIMASTER 411	DA 51.3
Low-Voltage Three-Phase-Motors	
SIMOTOCS S-1FG1 Servo geared motors	D 41
SIMOTICS Low-Voltage Motors	D 81.1
SIMOTICS FD Low-Voltage Motors	D 81.8
LOHER Low-Voltage Motors	D 83.1
Digital: MOTOX Geared Motors	*D 87.1*
SIMOGEAR Geared Motors	MD 50.1
SIMOGEAR Electric-monorail geared motors Light-load and heavy-load applications	MD 50.8
SIMOGEAR Gearboxes with adapter	MD 50.11
Mechanical Driving Machines	
FLENDER Standard Couplings	MD 10.1
FLENDER High Performance Couplings	MD 10.2
FLENDER Backlash-free Couplings	MD 10.3
FLENDER SIP Standard industrial planetary gear units	MD 31.1

Process Instrumentation and Analytics	*Catalog*
Digital: Field Instruments for Process Automation	*FI 01*
Digital: Display Recorders SIREC D	*MP 20*
Digital: SIPART Controllers and Software	*MP 31*
Products for Weighing Technology	WT 10
Digital: Process Analytical Instruments	*AP 01*
Digital: Process Analytics, Components for Continuous Emission Monitoring	*AP 11*

Low-Voltage Power Distribution and Electrical Installation Technology	
SENTRON · SIVACON · ALPHA Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems	LV 10
Standards-Compliant Components for Photovoltaic Plants	LV 11
Electrical Components for the Railway Industry	LV 12
Power Monitoring Made Simple	LV 14
Components for Industrial Control Panels according to UL Standards	LV 16
3WT Air Circuit Breakers up to 4000 A	LV 35
3VT Molded Case Circuit Breakers up to 1600 A	LV 36
Digital: SIVACON System Cubicles, System Lighting and System Air-Conditioning	*LV 50*
Digital: ALPHA Distribution Systems	*LV 51*
ALPHA FIX Terminal Blocks	LV 52
SIVACON S4 Power Distribution Boards	LV 56
SIVACON 8PS Busbar Trunking Systems	LV 70
Digital: DELTA Switches and Socket Outlets	*ET D1*
Vacuum Switching Technology and Components for Medium Voltage	HG 11.01

Motion Control	
SINUMERIK 840 Equipment for Machine Tools	NC 62
SINUMERIK 808 Equipment for Machine Tools	NC 81.1
SINUMERIK 828 Equipment for Machine Tools	NC 82
SIMOTION Equipment for Production Machines	PM 21
Digital: Drive and Control Components for Cranes	*CR 1*

Power Supply	
SITOP Power supply	KT 10.1

Safety Integrated	
Safety Technology for Factory Automation	SI 10

SIMATIC HMI / PC-based Automation	
Human Machine Interface Systems/ PC-based Automation	ST 80/ ST PC

SIMATIC Ident	
Industrial Identification Systems	ID 10

SIMATIC Industrial Automation Systems	
Products for Totally Integrated Automation	ST 70
SIMATIC PCS 7 Process Control System System components	ST PCS 7
SIMATIC PCS 7 Process Control System Technology components	ST PCS 7 T
Add-ons for the SIMATIC PCS 7 Process Control System	ST PCS 7 AO
SIMATIC S7-400 advanced controller	ST 400

SIMATIC NET	
Industrial Communication	IK PI

SIRIUS Industrial Controls	
Digital: SIRIUS Industrial Controls	*IC 10*

Digital: These catalogs are only available as a PDF.

Siemens Industry Online Support

Digital versions of the catalogs are available on the Internet at:
www.siemens.com/lowvoltage/catalogs

Get more information

www.siemens.com/lowvoltage

Siemens AG
Energy Management
Low Voltage & Products
Postfach 10 09 53
93009 Regensburg
Germany

PDF (E86060-K8280-A101-A7-7600)
KG 0718 1850 En
Produced in Germany

Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit **http://www.siemens.com/industrialsecurity**.

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under **http://www.siemens.com/industrialsecurity**.