

Busbar Systems

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3VA2025-5HL36-0AA0

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[Configuration Manual](#)

[8US Busbar Systems](#)

Article No.: 3ZW1012-8US10-0AC1

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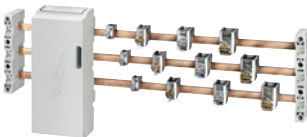
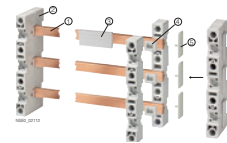




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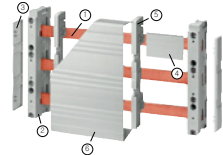
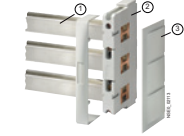
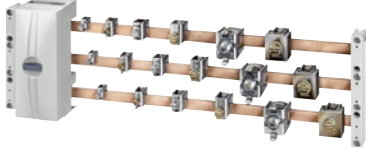


Busbar Systems

Introduction

System overview

Overview

Devices	Page	Application	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
	10/11	Basic assemblies up to 400 A, busbar supports, busbars, touch protection covers	EN 13601 IEC 61439-1, IEC 61439-2	✓	--	✓
	10/12	Basic assemblies up to 400 A, busbar supports, busbars, touch protection covers	EN 13601 IEC 61439-1, IEC 61439-2	✓	--	✓
	10/13		EN 13601 IEC 61439-1, IEC 61439-2 UL 508 A	✓	--	✓
	10/14	Basic assemblies up to 360 A, busbar supports, busbars, touch protection covers	EN 13601 IEC 61439-1, IEC 61439-2 UL 508 A	✓	--	✓
	10/15	Infeed for busbar systems, terminals	EN 13601 IEC 61439-1, IEC 61439-2 UL 508 A	✓	--	✓
	10/16	Busbar device adapters and device holders for the assembly of 3RV2/3RT2 load feeders	EN 13601 IEC 61439-1, IEC 61439-2 UL 508 A	✓	--	✓

Devices	Page	Application	Standards	Used in		
				Non-residential buildings	Residential buildings	Industry
	10/19		EN 13601 IEC 61439-1, IEC 61439-2 UL 508 A	✓	--	✓
	10/20	Basic assemblies up to 630 A, busbar supports, busbars, touch protection covers	EN 13601 IEC 61439-1, IEC 61439-2 UL 508 A	✓	--	✓
	10/23	Basic assemblies up to 1600 A, busbar supports, busbars, touch protection covers	EN 13601 IEC 61439-1, IEC 61439-2 UL 508 A	✓	--	✓
	10/24	Infeed for busbar systems, terminals ...	EN 13601 IEC 61439-1, IEC 61439-2 UL 508 A	✓	--	✓
	10/27	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)	✓	--	✓
	10/32	Busbar device adapters and device holders for the assembly of 3RV2/3RT2 load feeders	EN 13601 IEC 61439-1, IEC 61439-2 UL 508 A	✓	--	✓

Busbar Systems

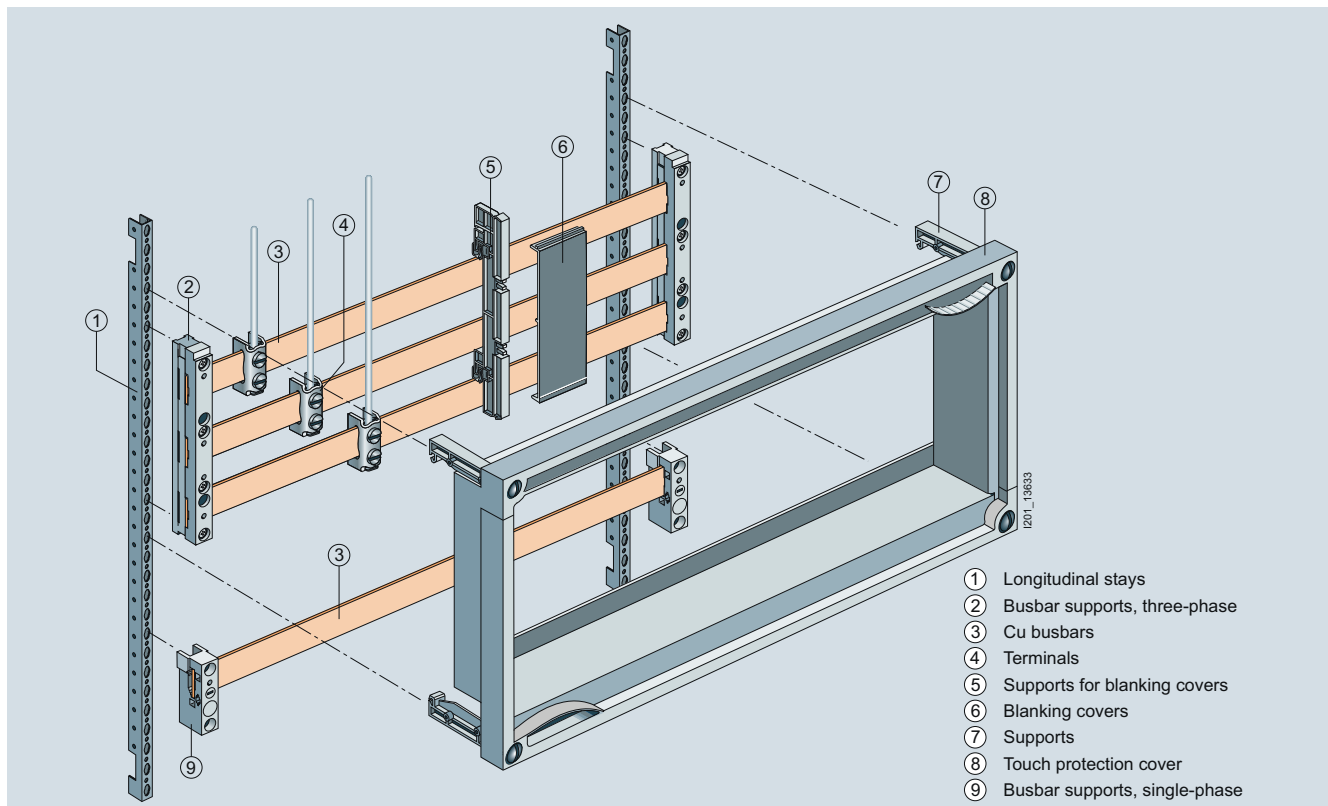
Introduction

General data

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

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.

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.

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.

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.

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

Bar dimensions mm	System mm	Continuous current at a busbar temperature of		
		65 °C A	85 °C A	105 °C A
12 × 5	40 + 60	188	248	295
15 × 5	40 + 60	222	293	349
20 × 5	60	274	362	430
25 × 5	60	327	432	513
30 × 5	60	379	500	595
12 × 10	40 + 60	302	398	474
20 × 10	60	427	564	670
30 × 10	60	573	756	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: <ul style="list-style-type: none"> • 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 [®] _{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

Busbar Systems

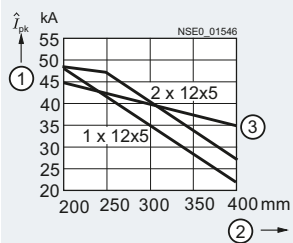
Introduction

General data

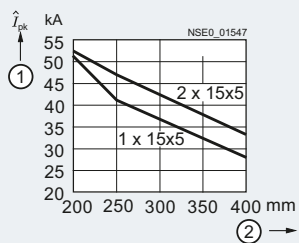
Characteristic curves

Characteristic curves as a function of rated peak withstand current

40 mm busbar systems

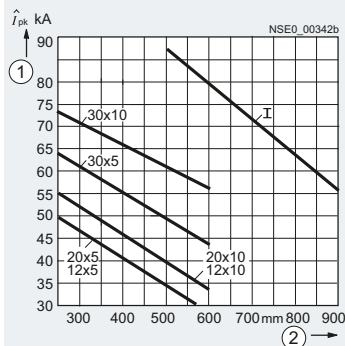


- ① Surge current I_{pk}
- ② Spacing of busbar supports
- ③ 5-pole busbar supports



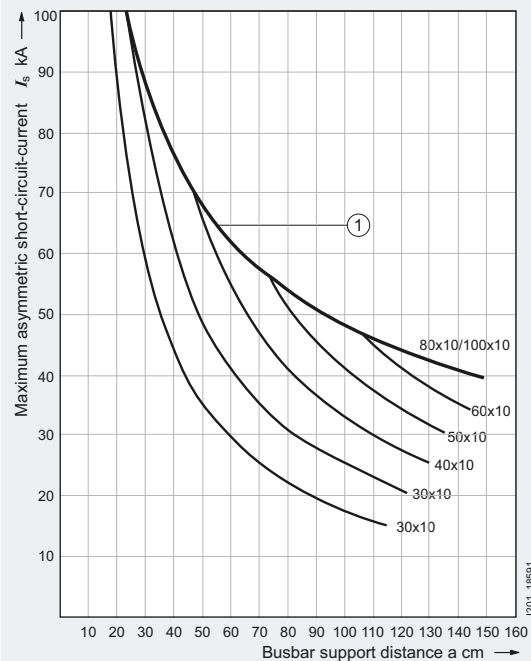
- ① Surge current I_{pk}
- ② Spacing of busbar supports

60 mm busbar systems



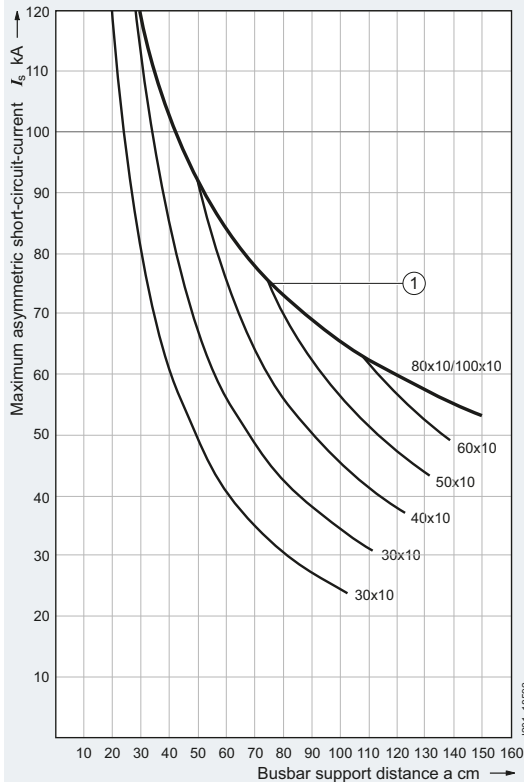
- ① Surge current I_{pk}
- ② Spacing of busbar supports

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

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

According to DIN 43671, current-carrying capacity values for flat bars are defined as 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: $I = I_n \times k_2$

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.

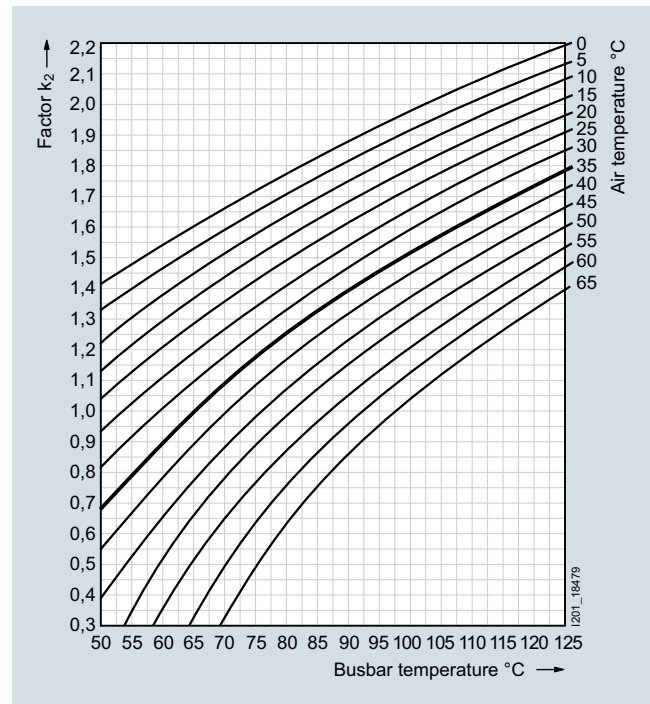
The following applies:

- 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

Busbar Systems

Introduction

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. The table below provides a selection aid for this purpose.

Selection aid for UL applications

Components used		Short-circuit current rating (SCCR) Total	Ambient conditions					Fuse type used	Max. spacing of busbar supports
Article No.	Description		Max. rated current I_e	Rated voltage U_e	Busbar dimensions	Rated current of the fuse used I_e			
			kA	A	V	A	mm		
8US1921-1AA00	Connection terminal plate with cover, conductor cross-section 35 ... 120 mm ²	10	--	600	--	--	--	533	
8US1921-1AA00		65	400	480	--	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1921-1AA00		50	600	480	--	600	3VL-UL; 3RV.7; 3RV.8	800	
8US1921-1AA00		35	400	600	--	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1921-1AA00		35	600	600	--	600	3VL-UL; 3RV.7; 3RV.8	800	
8US1921-1AA00		100	600	480	--	600	J or T	800	
8US1921-1AA00		100	500	600	--	500	J or T	800	
8US1921-1AA00		100	400	480	--	400	RK1	800	
8US1921-1AA00		100	400	600	--	400	RK1	800	
8US1922-2AA00	Cover profiles for busbars	--	--	--	--	--	--	--	
8US1922-2BA00	Cover profiles for busbars	--	--	--	--	--	--	--	
8US1922-2DA00	Cover profiles for flat copper profile	--	--	--	--	--	--	--	
8US1923-3UA01	End and intermediate holders for flat copper profiles	18	150	600	12x5	--	--	250	
8US1923-3UA01		18	150	600	12x5	--	--	400	
8US1923-3UA01		65	150	480	12x5	250	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		25	150	600	12x5	250	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		100	150	480	12x5	400	RK1, J or T	800	
8US1923-3UA01		100	150	600	12x5	175	J or T	800	
8US1923-3UA01		100	150	600	12x5	100	RK1	800	
8US1923-3UA01		18	150	600	12x10	--	-	250	
8US1923-3UA01		18	150	600	12x10	--	-	400	
8US1923-3UA01		65	150	480	12x10	250	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		25	150	600	12x10	250	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		100	150	480	12x10	400	RK1, J or T	800	
8US1923-3UA01		100	150	600	12x10	175	J or T	800	
8US1923-3UA01		100	150	600	12x10	100	RK1	800	
8US1923-3UA01		18	362	600	20x5	--	-	250	
8US1923-3UA01		18	362	600	20x5	--	-	400	
8US1923-3UA01		65	362	480	20x5	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		35	362	600	20x5	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		100	362	480	20x5	500	J or T	800	
8US1923-3UA01		100	362	600	20x5	400	J or T	800	
8US1923-3UA01		100	362	480	20x5	400	RK1	800	
8US1923-3UA01		100	362	600	20x5	200	RK1	800	
8US1923-3UA01		18	564	600	20x10	--	-	250	
8US1923-3UA01		18	564	600	20x10	--	-	400	
8US1923-3UA01		65	564	480	20x10	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		35	564	600	20x10	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		100	564	480	20x10	500	J or T	800	
8US1923-3UA01		100	564	600	20x10	400	J or T	800	
8US1923-3UA01		100	564	480	20x10	400	RK1	800	
8US1923-3UA01		100	564	600	20x10	200	RK1	800	
8US1923-3UA01		25	500	600	30x5	--	-	250	
8US1923-3UA01		22	500	600	30x5	--	-	400	
8US1923-3UA01		65	500	480	30x5	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		35	500	600	30x5	600	3VL-UL; 3RV.7; 3RV.8	800	

Components used		Short-circuit current rating (SCCR) Total	Ambient conditions					Fuse type used	Max. spacing of busbar supports
Article No.	Description		Max. rated current I_e	Rated voltage U_e	Busbar dimensions	Rated current of the fuse used I_e			
			A	V		A	mm		
8US1923-3UA01	End and intermediate holders for flat copper profiles	100	500	480	30x5	500	J or T	800	
8US1923-3UA01		100	500	600	30x5	500	J or T	800	
8US1923-3UA01		100	500	480	30x5	400	RK1	800	
8US1923-3UA01		100	500	600	30x5	400	RK1	800	
8US1923-3UA01		25	756	600	30x10	--	--	250	
8US1923-3UA01		22	756	600	30x10	--	--	400	
8US1923-3UA01		65	756	480	30x10	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		35	756	600	30x10	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		50	756	480	30x10	600	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		25	756	600	30x10	600	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		100	756	480	30x10	600	J or T	800	
8US1923-3UA01		100	756	600	30x10	450	J or T	800	
8US1923-3UA01		100	756	480	30x10	400	RK1	800	
8US1923-3UA01		100	756	600	30x10	400	RK1	800	
8US1923-3UA01		65	--	480	--	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		50	--	480	--	600	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		35	--	600	--	600	3VL-UL; 3RV.7; 3RV.8	800	
8US1923-3UA01		100	--	480	--	600	J or T	800	
8US1923-3UA01		100	--	600	--	500	J or T	800	
8US1923-3UA01		100	--	480	--	400	RK1	800	
8US1923-3UA01		100	--	600	--	400	RK1	800	
8US1213-4AH00	Device adapters for 3VL UL molded-case circuit breakers	65	630	480	--	600	--	400	
8US1213-4AH00		50	630	600	--	600	--	400	
8US1213-4AH00		65	630	480	--	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1213-4AH00		35	630	600	--	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1213-4AH00		50	630	480	--	600	3VL-UL; 3RV.7; 3RV.8	800	
8US1213-4AH00		25	630	600	--	600	3VL-UL; 3RV.7; 3RV.8	800	
8US1211-4TR00	Busbar adapter 45 mm / 72 mm	10	80	600	--	--	--	400	
8US1213-4AQ01	Busbar adapters for 3VL UL molded-case circuit breakers	65	250	480	--	250	--	400	
8US1213-4AQ01		50	250	600	--	250	--	400	
8US1213-4AQ01		65	250	480	--	250	3VL-UL; 3RV.7; 3RV.8	800	
8US1213-4AQ01		25	250	600	--	250	3VL-UL; 3RV.7; 3RV.8	800	
8US1948-2AA00	Flat copper profiles	103	1400	600	--	1600	Class L	N/A	
8US1943-3AA00	Busbar supports, 3-pole, double-T profile	30	1200	600	--	--	--	400	
8US1943-3AA00		25	1200	600	--	--	--	700	
8US1943-3AA00		65	1200	480	--	800	3VL-UL; 3RV.7; 3RV.8	800	
8US1943-3AA00		30	1200	600	--	800	3VL-UL; 3RV.7; 3RV.8	800	
8US1943-3AA00		100	1200	480	--	800	Class T	800	
8US1943-3AA00		100	1200	600	--	600	J or T	800	
8US1943-3AA00		100	1200	480	--	600	Class RK1	800	
8US1943-3AA00		100	1200	600	--	400	Class RK1	800	
8US1943-3AA00		30	1400	600	--	--	--	400	
8US1943-3AA00		25	1400	600	--	--	--	700	
8US1943-3AA00		65	1400	480	--	800	3VL-UL; 3RV.7; 3RV.8	800	
8US1943-3AA00		30	1400	600	--	800	3VL-UL; 3RV.7; 3RV.8	800	
8US1943-3AA00		100	1400	480	--	800	T	800	
8US1943-3AA00		100	1400	600	--	600	J or T	800	
8US1943-3AA00		100	1400	480	--	600	RK1	800	
8US1943-3AA00		100	1400	600	--	400	RK1	800	
8US1943-3AA00		65	--	480	--	800	3VL-UL; 3RV.7; 3RV.8	800	
8US1943-3AA00		30	--	600	--	800	3VL-UL; 3RV.7; 3RV.8	800	
8US1943-3AA00		100	--	480	--	800	T	800	
8US1943-3AA00		100	--	600	--	600	J or T	800	
8US1943-3AA00		100	--	480	--	600	RK1	800	
8US1943-3AA00		100	--	600	--	400	RK1	800	
8US1922-1GC00	Covers for connection terminal set	--	--	--	--	--	--	--	

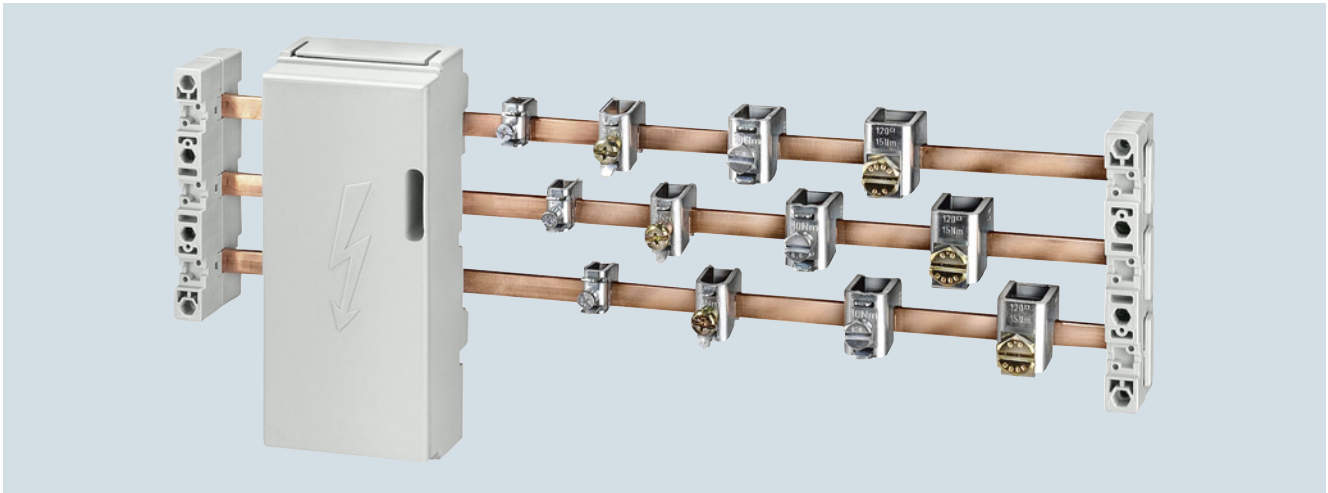
Busbar Systems

Introduction

UL applications

Components used		Short-circuit current rating (SCCR) Total	Ambient conditions					Fuse type used	Max. spacing of busbar supports
Article No.	Description		Max. rated current I_e	Rated voltage U_e	Busbar dimensions	Rated current of the fuse used I_e			
			A	V		A	mm		
8US1941-2AA03	Connection terminals, 3-pole	65	400	480	--	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1941-2AA03		35	400	600	--	400	3VL-UL; 3RV.7; 3RV.8	800	
8US1941-2AA03		100	500	480	--	500	J or T	800	
8US1941-2AA03		100	300	600	--	300	J or T	800	
8US1941-2AA03		100	400	480	--	400	RK1	800	
8US1941-2AA03		100	200	600	--	200	RK1	800	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	5	32	600	--	12.5	3RV20 + 3RV2928-1K	400	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	5	32	480	--	32	3RV20 + 3RV2928-1K	400	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	30	32	600	--	12.5	3RV20 + 3RV2928-1K	400	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	65	32	480	--	16	3RV20	400	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	65	32	600	--	25	3RV20 + 3RV2928-1K	400	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	50	32	480	--	32	3RV20 + 3RV2928-1K	400	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	5	25	600	--	--	--	400	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	5	32	600	--	--	--	400	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	5	25	600	--	--	--	400	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	5	32	600	--	--	--	400	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	5	25	600	--	--	--	400	
8US1211-1NS10 / 8US1251-5DS10 / 8US1251-5DT11 / 8US1251-5DT10	Busbar device adapters and device holders	5	32	600	--	--	--	400	
8US1251-5NT10	Busbar adapters for devices of size S0	5	30	600	--	--	--	400	
8US1250-1AA10	Device holders for SIRIUS 3RA6	--	--	--	--	--	--	--	
8US1250-5AT10	Device holders for devices of width 45 mm	--	--	--	--	--	--	--	
8US1250-5AS10		--	--	--	--	--	--	--	

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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.

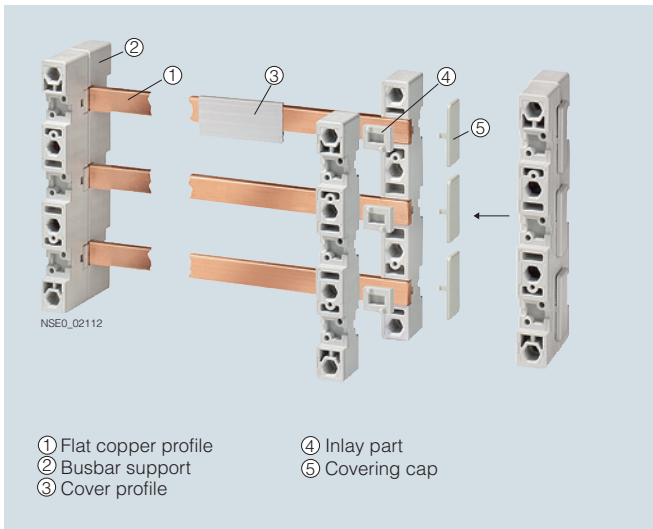
Terminals round off the product range of the 40 mm busbar system.

Busbar Systems

8US 40 mm Busbar Systems up to 400 A




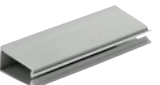
Basic assemblies

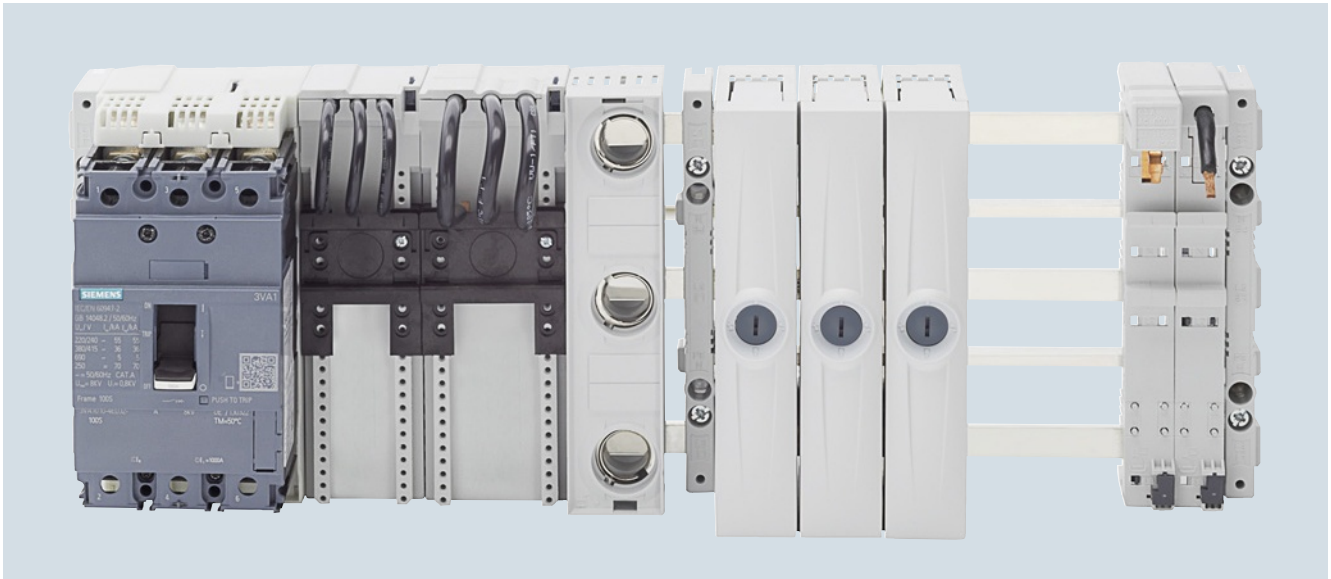
Overview



40 mm busbar system: Basic assembly up to 400 A

Selection and ordering data

Description	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
②④⑤ Busbar supports End and intermediate holders for flat copper profiles 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	0.176
 8US1903-3AB00							
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	0.122
 8US1903-5AA00							
① Flat copper profiles (flat profile, approx. 2.4 m long, bare, according to EN 12167) 12 x 5 mm 15 x 5 mm		8WC5123 8WC5121		1 1	1 unit 1 unit	1CU 1CU	1.287 1.620
 8WC5							
③ Cover profiles for busbars 12 x 5 mm 1000 mm long 15 x 5 mm 1000 mm long		8US1922-2CA00 8US1922-2AA00		1 1	10 units 10 units	1CU 1CU	0.061 0.150
 8US1922-2CA00							

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 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.

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 possible

Busbar Systems

8US 60 mm Compact Busbar Systems up to 360 A **NEW**

Basic assemblies






Overview



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




Selection and ordering data

Mounting arrangement of 60 mm compact busbar system 3-pole/5-pole




	Description	Size mm	Standard	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	Busbar supports, 3P+N+PE, with end cover <ul style="list-style-type: none"> Rated voltage U_g: <ul style="list-style-type: none"> - 690 V AC for IEC applications - 600 V AC for UL 508 SCCR for UL 508 <ul style="list-style-type: none"> - 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	0.071	
	UL spacers, height 18 mm <ul style="list-style-type: none"> For use under 8US1923-5CA02 busbar support Minimum order quantity 10 units 	12 x 160 x 18			8US1922-1CA02		1 10 units	1CU	0.035	
	Stabilizing modules <ul style="list-style-type: none"> 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	0.018	
	Cover profiles <ul style="list-style-type: none"> Minimum order quantity 2 units 	700 x 160 x 63			8US1922-2CB02		1 2 units	1CU	0.448	
	Holders <ul style="list-style-type: none"> For 8US1922-2CB02 cover profile Minimum order quantity 10 units 	5 x 156 x 55			8US1922-2CA02		1 10 units	1CU	0.018	

Overview

Mounting arrangement of 60 mm compact busbar system 3-pole

Description	Size	Standard	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
 <p>Infeed system 3-pole for busbar 12 x 5 mm, 12 x 10 mm</p> <p>Connection modules 16 mm², 3-pole with spring terminal 1.5 ... 16 mm²</p> <ul style="list-style-type: none"> Rated current I_e: <ul style="list-style-type: none"> - 80 A for IEC applications Rated voltage U_e: <ul style="list-style-type: none"> - 690 V AC for IEC applications Minimum order quantity 6 units 	20 x 160 x 91			8US1921-1BA02		1	6 units	1CU	0.139
 <p>Connecting terminal plates, 3-pole</p> <ul style="list-style-type: none"> Terminals 6 ... 50 mm² Rated current I_e: <ul style="list-style-type: none"> - 300 A for IEC applications Rated voltage U_e: <ul style="list-style-type: none"> - 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	0.420
 <p>Connecting terminal plates, 3-pole</p> <ul style="list-style-type: none"> Terminals 35 - 150 mm² Rated current I_e: <ul style="list-style-type: none"> - 480 A for IEC applications Rated voltage U_e: <ul style="list-style-type: none"> - 690 V AC for IEC applications 	90 x 160 x 115			8US1921-1CC02		1	1 unit	1CU	0.631

Mounting arrangement of 60 mm compact busbar system 5-pole

Description	Size	Standard	DT	Article No. www.siemens.com/ product?Article.No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
 <p>Infeed system 5-pole for busbar 12 x 5 mm</p> <p>Connecting terminal plates, 3-pole</p> <ul style="list-style-type: none"> 10 ... 120 mm² Rated current I_e: <ul style="list-style-type: none"> - 250 A for IEC applications Rated voltage U_e: <ul style="list-style-type: none"> - 690 V AC for IEC applications - 600 V AC for UL 508 	90 x 160 x 80			8US1921-1CD02		1	1 unit	1CU	0.620
 <p>N connection modules</p> <ul style="list-style-type: none"> Terminals 10 ... 120 mm² Rated voltage U_e: <ul style="list-style-type: none"> - 690 V AC for IEC applications 	30 x 160 x 80			8US1921-1CE02		1	1 unit	1CU	0.218
 <p>PE connection modules</p> <ul style="list-style-type: none"> Terminals 10 ... 120 mm² Rated voltage U_e: <ul style="list-style-type: none"> - 690 V AC for IEC applications 	30 x 160 x 80			8US1921-1CF02		1	1 unit	1CU	0.219

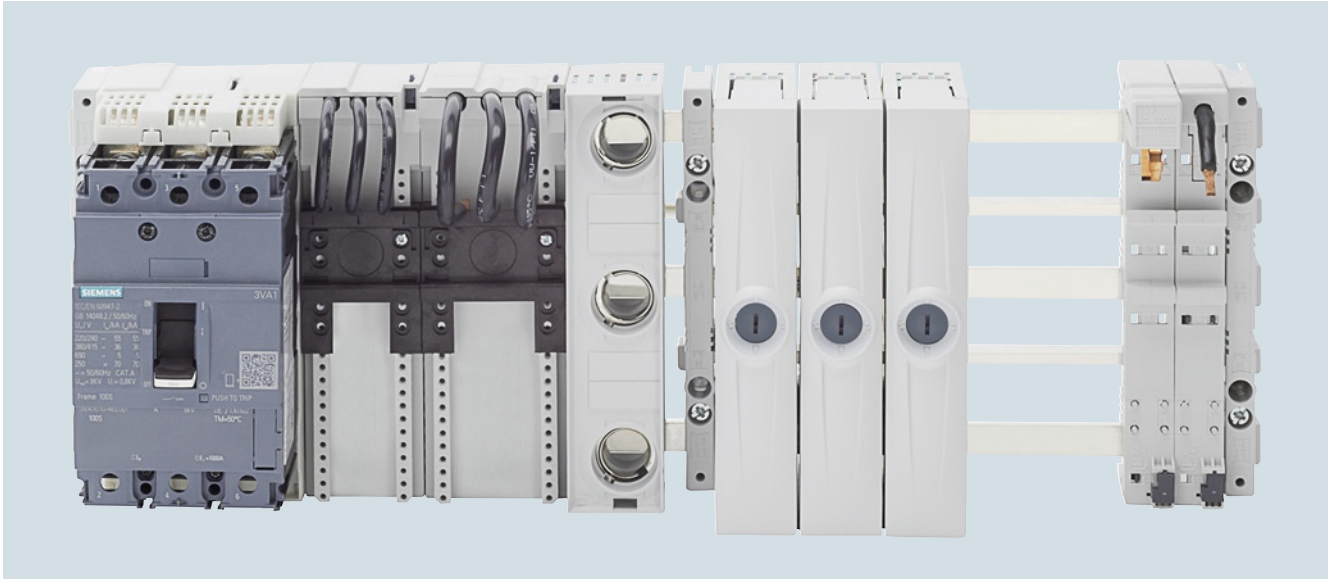
* You can order this quantity or a multiple thereof.

Busbar Systems

8US 60 mm Compact Busbar Systems up to 360 A **NEW**




Device adapters and device holders

Overview






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

Mounting arrangement of 60 mm compact busbar system 3-pole

Description	Size (H x W x D) mm	Standard	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Adapters, 3-pole									
 Adapters 32 A, 1 support rail <ul style="list-style-type: none"> Rated current I_B: - 32 A for IEC applications - 25 A for UL 508 Rated voltage U_B: - 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	0.219
 Adapters 63 A, 1 support rail <ul style="list-style-type: none"> Rated current I_B: - 63 A for IEC applications - 65 A for UL 508 Rated voltage U_B: - 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	0.287
Device holders									
 Adapters for molded case circuit breakers <ul style="list-style-type: none"> With latching function For rails 12 x 5 mm, 12 x 10 mm Rated current I_B: - 144 A for IEC applications Rated voltage U_B: - 690 V AC for IEC applications 	160 x 77			8US1613-4AU01		1	1 unit	1CU	0.539

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Mounting arrangement of 60 mm compact busbar system 5-pole

Description	Size	Standard	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Adapters for 5-pole compact busbar system									
 Adapters, single-pole, 32 A <ul style="list-style-type: none"> • Standard version • Rated current I_e: <ul style="list-style-type: none"> - 32 A for IEC applications • Rated voltage U_e: <ul style="list-style-type: none"> - 690 V AC for IEC applications • Minimum order quantity 12 units 	18 x 160 x 73			8US1621-2NJ02		1	12 units	1CU	0.073
 Adapters, single-pole, 63 A <ul style="list-style-type: none"> • Standard version • Rated current I_e: <ul style="list-style-type: none"> - 63 A for IEC applications • Rated voltage U_e: <ul style="list-style-type: none"> - 690 V AC for IEC applications • Minimum order quantity 12 units 	18 x 160 x 73			8US1621-2FK02		1	12 units	1CU	0.075
 Adapters, single-pole, 63 A <ul style="list-style-type: none"> • For 5SL, 5SY miniature circuit breakers • Rated current I_e: <ul style="list-style-type: none"> - 63 A for IEC applications • Rated voltage U_e: <ul style="list-style-type: none"> - 690 V AC for IEC applications • Minimum order quantity 12 units 	18 x 160 x 82			8US1624-2FK02		1	12 units	1CU	0.840





Busbar Systems

8US 60 mm Compact Busbar Systems up to 360 A **NEW**

Accessories

Overview

For 12 x 5 mm busbars

	Description	Size	Standard	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	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	0.063	
8US1600-0RE02										
	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	0.062	
8US1600-0RF02										
	Support modules • Minimum order quantity 6 units	18 x 160 x 54			8US1620-5AK02		1 6 units	1CU	0.039	
8US1620-5AK02										
	Lateral modules • Minimum order quantity 12 units	9 x 160 x 47			8US1998-2BH02		1 12 units	1CU	0.023	
8US1998-2BH02										
	Set of connectors • For connecting adapters	--			8US1998-1AA02		1 1 unit	1CU		
8US1998-1AA02										

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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 further information and accessories, [see chapter "Fuse systems" → Cylindrical fuse systems](#)
→ [Fuse holders in size 10 x 38 mm and Class CC](#)



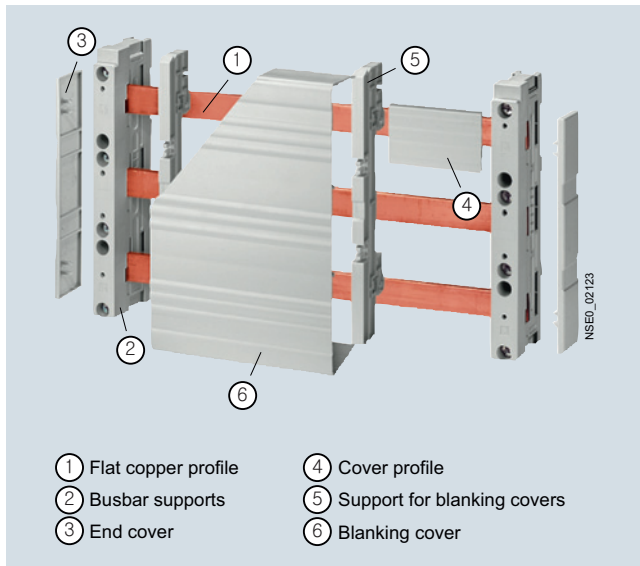
Installation configuration of a cylindrical fuse holder and a SIRIUS contactor on busbar device adapter for the 60 mm busbar system

Busbar Systems

8US 60 mm Busbar Systems up to 1600 A

Basic assemblies up to 630 A

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	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
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	0.161
	3-pole, with inner fixing	L1-L3		8US1923-3AA01		1	10 units	1CU	0.156
	4-pole, with inner fixing	L1-L3 + PE/N		8US1923-4AA00		1	10 units	1CU	0.233
	2-pole, with outside fixing			8US1923-5AA00		1	10 units	1CU	0.112
N/PE busbar supports 12, 20, 30 x 5, 10 mm									
	1-pole, for flat copper profile for 5/10 mm busbars	PE/N		5SH3540		1	1 unit	1CU	0.070






Busbar Systems

8US 60 mm Busbar Systems up to 1600 A

Basic assemblies up to 630 A

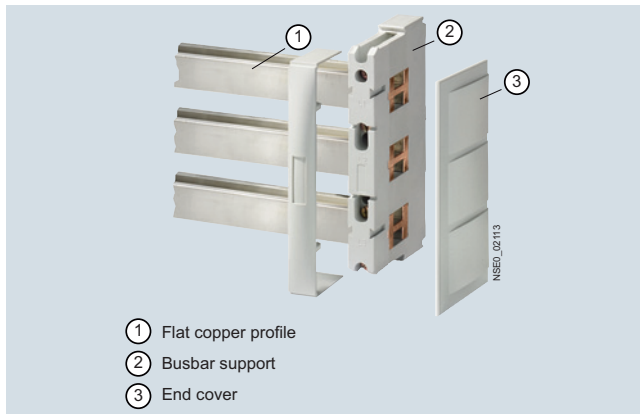
	Description	Connections	Standard	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	N/PE busbar supports, 6 x 6 mm 12, 15, 20, 25, 30 x 5, 10 mm 1-pole, for copper profiles for mounting on 8US1923-2AA01 3-pole busbar supports or free standing	PE/N	UL 508		8US1923-1AA01		1	1 unit	1CU	0.052
8US1923-1AA01										
	End and intermediate holders for flat copper profiles 5 x 20 mm, 10 x 20 mm, 10 x 30 mm 3-pole, with inner fixing	L1-L3	UL 508 ¹⁾		8US1923-3UA01		1	10 units	1CU	0.154
8US1923-3UA01										
	③ End covers For covering free busbar ends • For 8US1923-2AA01, 3AA01 and 3UA01	L1-L3	UL 508		8US1922-1AC00		1	10 units	1CU	0.020
8US1922-1AC00										
	¹⁾ Only with base plate 8US1922-2UA01									

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

	Description	Length	Width	Depth	Standard	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		mm	mm	mm								
	④ Cover profiles for busbars 12 x 5 mm	1000	15	10			8US1922-2CA00		1	10 units	1CU	0.061
8US1922-2CA00												
	15 x 5 mm, 20 x 5 mm, 25 x 5 mm, 30 x 5 mm	1000	40	9	UL 508		8US1922-2AA00		1	10 units	1CU	0.150
8US1922-2AA00												
	12 x 10 mm, 15 x 10 mm, 20 x 10 mm, 25 x 10 mm, 30 x 10 mm	1000	40	14	UL 508		8US1922-2BA00		1	10 units	1CU	0.175
	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	0.038
8US1922-2EA0.												
	Mounting on busbar, 107 mm depth (2 units per section of blanking cover)					UL 508	8US1922-2EA01		1	8 units	1CU	0.081
	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	0.741
8US1922-2EB00												





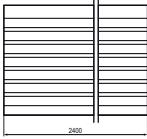



* You can order this quantity or a multiple thereof.

Overview



60 mm busbar system: Basic assembly up to 1600 A

Selection and ordering data

	Description	Standard	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	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	1.084
	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	15.600
	Cover profiles For flat copper profiles, length 1000 mm			8US1922-2DA00		1	5 units	1CU	0.482
	Busbar connection pieces For special profiles/TT profiles up to 1600 A			8US1941-2BF00		1	3 units	1CU	1.137
	Partitions, closed 76 mm wide, 2400 mm long For additional lateral touch protection at the top/bottom			8US1922-1JA00		1	1 unit	1CU	0.500
	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	0.038
	Mounting on busbar, 107 mm depth (2 units per section of blanking cover)		UL 508	8US1922-2EA01		1	8 units	1CU	0.081
	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	0.741

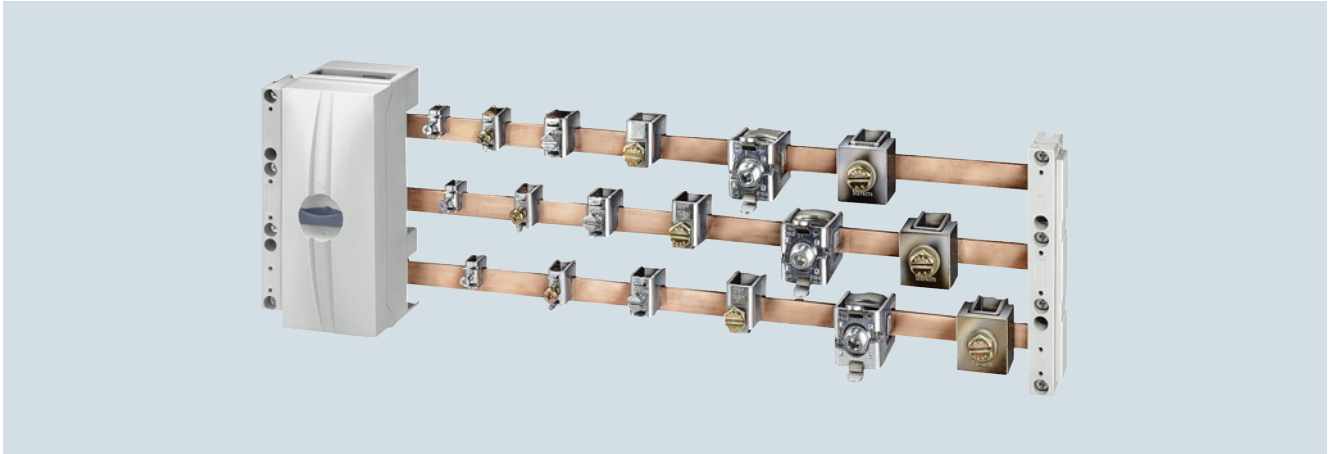
* You can order this quantity or a multiple thereof.

Busbar Systems

8US 60 mm Busbar Systems up to 1600 A





Infeed 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	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	mm	mm	A	mm ²								
Infeeds												
Connecting terminal plate with cover												
	• 3-pole	200	20	80	1.5 ... 16	UL 508	5SH3538		1	5 units	1CU	0.157
	• 3-pole	200	54	300	6 ... 50	UL 508	8US1921-1BA00		1	1 unit	1CU	0.417
	• 3-pole	200	81	400	35 ... 120	UL 508	8US1921-1AA00		1	1 unit	1CU	0.496
Outgoing modules for PE/N												
	Connection module for 4th pole (PE/N) up to 16 mm, must be attached to an adapter/device holder	242	18	--	--	--	8US1200-0AA00		1	1 unit	1CU	0.129
SR60 connecting terminal plates												
	3-pole with cover, suitable for aluminum conductors (shown without cover)			560	150 ... 300	--	5SH3535		1	1 unit	1CU	1.643
Terminal sets												
	3-pole without cover for round cables, suitable for aluminum conductors			560	95 ... 300	UL 508	8US1941-2AA03		1	1 unit	1CU	1.560

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8US1921-1AA00

8US1200-0AA00




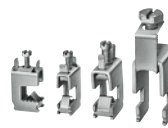


5SH3535

8US1941-2AA03

Busbar Systems

8US 60 mm Busbar Systems up to 1600 A

Infeed and connection methods





	Description	Max. current	Conductor cross-section mm ²	Standard	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Terminal sets 3-pole without cover for flat bars up to 32 x 20 mm	800	--	UL 508		8US1941-2AA04		1	1 unit	1CU	1.339
8US1941-2AA04											
	Covers for 8US1941-2AA03/04 terminal set	--	--	--		8US1922-1GC00		1	1 unit	1CU	0.347
8US1922-1GC00											
Terminals for circular conductors											
5 mm busbar thickness¹⁾											
12 x 5 mm, 15 x 5 mm, 20 x 5 mm, 25 x 5 mm, 30 x 5 mm											
 Terminals		180	1.5 ... 16			8US1921-2AA00		100	100 units	1CU	2.060
		270	4 ... 35			8US1921-2AB00		100	50 units	1CU	4.600
		400	16 ... 70			8US1921-2AD00		1	50 units	1CU	0.071
		440	16 ... 120			8US1921-2AC00		1	50 units	1CU	0.106
		180	1.5 ... 16			8US1921-2AA01		1	15 units	1CU	0.021
		270	4 ... 35			8US1921-2AB01		1	15 units	1CU	0.046
	400	16 ... 70			8US1921-2AD01		1	15 units	1CU	0.070	
	440	16 ... 120			8US1921-2AC01		1	15 units	1CU	0.100	
10 mm busbar thickness											
12 x 10 mm, ¹⁾ 15 x 10 mm, ¹⁾ 20 x 10 mm, 25 x 10 mm, 30 x 10 mm											
 Terminals		180	1.5 ... 16			8US1921-2BA00		1	100 units	1CU	0.022
		270	4 ... 35			8US1921-2BB00		1	50 units	1CU	0.048
		400	16 ... 70			8US1921-2BD00		1	50 units	1CU	0.072
		440	16 ... 120			8US1921-2BC00		1	50 units	1CU	0.107
		180	1.5 ... 16			8US1921-2BA01		1	15 units	1CU	0.022
		270	4 ... 35			8US1921-2BB01		1	15 units	1CU	0.048
	400	16 ... 70			8US1921-2BD01		1	15 units	1CU	0.070	
	440	16 ... 120			8US1921-2BC01		1	15 units	1CU	0.104	
		500	95 ... 185			8US1941-2AA01		1	6 units	1CU	0.307
8US1941-2AA01											
		600	95 ... 300			8US1941-2AA02		1	3 units	1CU	0.406
8US1941-2AA02											

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

Busbar Systems

8US 60 mm Busbar Systems up to 1600 A

Infeed and connection methods

	Description	Max. current	Conductor cross-section mm ²	Standard	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
 8US1922-1GA00	Terminal covers for circular conductors (fixing to busbar)										
	For terminals up to 120 mm ² 200 mm long, 84 mm wide	--	--	--		8US1922-1GA00		1	10 units	1CU	0.154
	For terminals up to 300 mm ² ¹⁾ 200 mm long, 270 mm wide	--	--	--		8US1922-1GA02		1	1 unit	1CU	0.645
 8US1941-2AC00	Terminals										
	For cable lugs up to 240 mm ² , 10 mm bar thickness (threaded bolts M10)	630	--	--		8US1941-2AC00		1	6 units	1CU	0.360
 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	0.298
	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	0.812
 8US1941-2BA00											

¹⁾ Only for 20 x 5 mm, 20 x 10 mm, 25 x 5 mm, 25 x 10 mm, 30 x 5 mm and 30 x 10 mm

Overview

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 the 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. Installation in industrial control cabinets

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

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

Planning dimensions

	Width mm	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

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

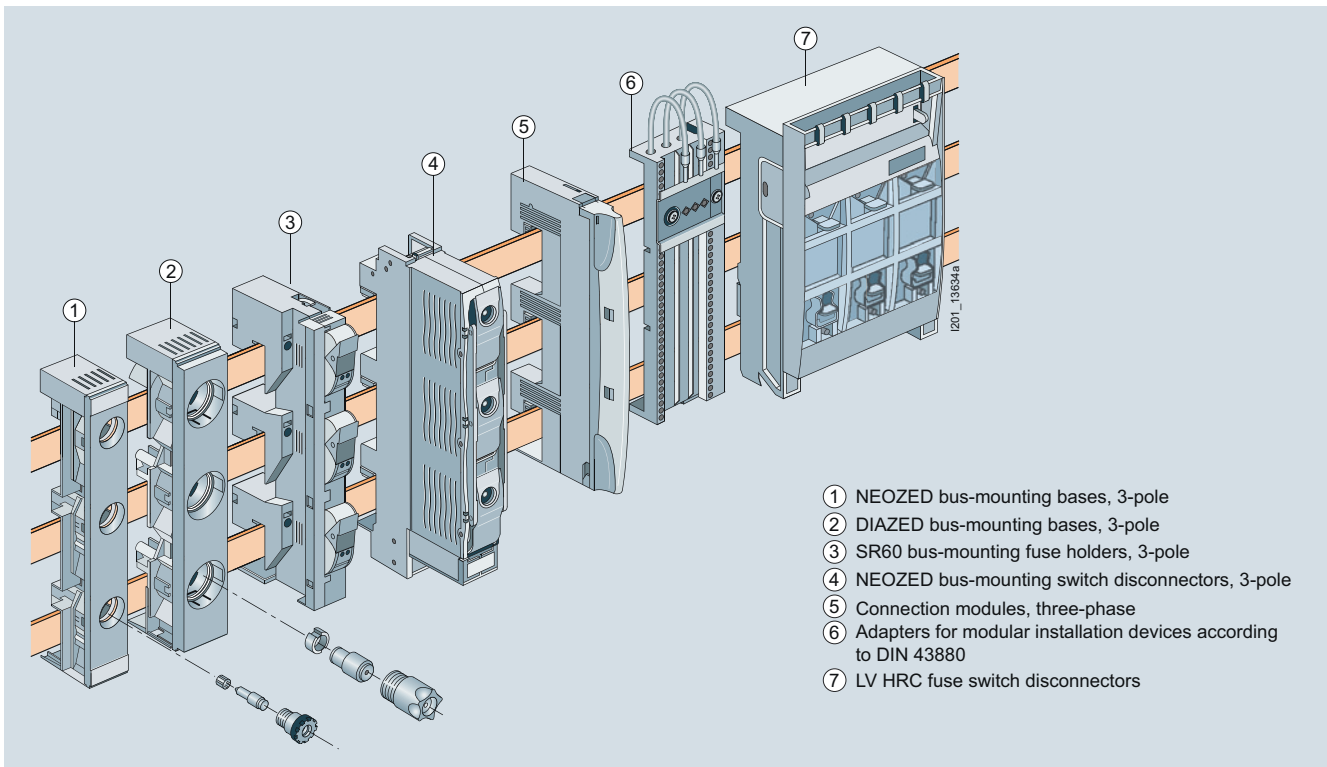
The fuse holders for cylindrical fuses, size 10 x 38 and for American fuses, Class CC, can be used in the international plant engineering industry. In addition, Siemens offers a broad range of UL-approved components for the design of switchboards according to UL 508 A.

Fuse holders, fuse switch disconnectors, switch disconnectors with fuse and 16 mm² connection modules with screwless terminals are available; this offers users maximum safety and comfort.

Busbar Systems

8US 60 mm Busbar Systems up to 1600 A

Built-in components



- 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

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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.

Technical specifications

<i>Bus-mounting bases</i>	NEOZED SR60 bus-mounting bases		DIAZED SR60 bus-mounting bases		
	5SG6202 5SG6206 5SG6207 5SG208	D01	D02	5SF6014 5SF6015 5SF6020	5SF6214 5SF6215 5SF6220
				DII	DIII
Standards	IEC 60269-3, DIN VDE 0636-3				
Rated voltage	V AC	400		500	690
	V DC	250		--	600
Rated frequency	Hz	50			
Rated current	A	16 (with 5SH5400 retaining springs)	63	25	63
Rated conditional short-circuit current	kA AC	50		50	
	kA DC	8		8	
For fuse links with power losses per phase	W	2.5	5.5	4	7
Busbar center-to-center spacing	mm	60		60	
<i>Bus-mounting fuse holders</i>	3NW7431		3NW7431-0HG		
Standards	IEC 60269-2, UL 512, CSA C22.2		UL 512, CSA C22.2		
Approvals	UL, 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 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 gL/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)			
<i>Bus-mounting switch disconnectors with fuses</i>	5SG7230		3NW7430		
Standards	IEC 60269-3, IEC 60269-2				
Approvals	EN 60947-3 (VDE 0660-107), IEC 60947-3				
Size	D02 (D01)		10 mm × 38 mm		
Rated frequency	Hz	50/60		50/60	
Rated voltage U_e	V AC	400		690	
	V DC	110		--	
Rated insulation voltage U_i	V	800		800	
Rated impulse withstand voltage U_{imp}	kV	6		6	
Rated current I_e	A	63 ¹⁾		Up to 32	
Utilization categories					
(Type-tested with 3-pole, switchable version)					
		AC-23 A (400 V) DC-21 B (48 V), 1 pole DC-21 B (110 V), 2 pole		AC-20 DC-20	
Box terminals for wire connection	mm ²	Cu 1.5 ... 6 (re)		Cu 1.5 ... 6 (re)	
	mm ²	Cu 1.5 ... 16 (f)		Cu 1.5 ... 16 (f)	
	mm ²	Cu 1.5 ... 16 (f+AE)		Cu 1.5 ... 16 (f+AE)	
Signaling switches for the display of switching positions		1 CO		1 CO	
Cable terminals		Bottom		Bottom	
Busbar thickness	mm	Through combination foot for 5, 10 mm			
Rated conditional short-circuit current	kA AC	50		50	
(type-tested with fuse links, operational class gL/gG)	kA DC	8		--	
Permissible power loss of fuse links per phase	W	5.5		3	
For stand-alone operation without lateral modules or for group operation with lateral modules					







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.

Busbar Systems

8US 60 mm Busbar Systems up to 1600 A

Built-in components

Selection and ordering data




	Size	Rated current	Rated voltage	Mounting width	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
		A	V	MW							
	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	0.146
	36 mm wide										
	D02	63	400	2		5SG6207		1	4 units	1CU	0.163
	NEOZED SR60 bus-mounting bases, 3P standard version For 5/10 mm busbars										
	D02	63	400	1.5		5SG6202		1	4/104 units	1CU	0.111
	NEOZED SR60 covers for standard version										
	D02			1.5		5SH5241		1	4/200 units	1CU	0.024
	D02, extra wide			2		5SH5242		1	4/140 units	1CU	0.028
	D02, with double width										
				3		5SH5243		1	4/120 units	1CU	0.039
	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	0.295
	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	0.397
	DIAZED SR60 bus-mounting bases, 3P standard version For use with DIAZED screw adapters										
	DII	25	500	2.3		5SF6015		1	2/52 units	1CU	0.233
	DIII	63	500 V AC/DC (according to DIN VDE 0636-3 also 690 V AC/600 V DC)	3.2		5SF6215		1	2/52 units	1CU	0.308

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Busbar Systems

8US 60 mm Busbar Systems up to 1600 A




Built-in components

Size	Rated current	Rated voltage	Mounting width	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A	V								
	DIAZED SR60 covers for standard version									
	DII			2.3	5SH2042		1	2/120 units	1CU	0.048
DIII			3.2	5SH2242			1	2/120 units	1CU	0.059
	SR60 bus-mounting fuse holders, 3P									
	For 5/10 mm busbars with screwless terminals									
	--	30	690	1.5	3NW7431		1	1 unit	1CU	0.249
--	30	600	1.5	3NW7431-0HG		1	1 unit	1CU	0.256	
	NEOZED SR60 bus-mounting switch disconnectors, 3P									
	For 5/10 mm busbars									
D02	63*	400	1.5	5SG7230		1	1/30 units	1CU	0.698	

DIAZED screw caps, DIAZED screw adapters and DIAZED fuse links see chapter "Fuse Systems", "DIAZED fuse system"

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Other accessories

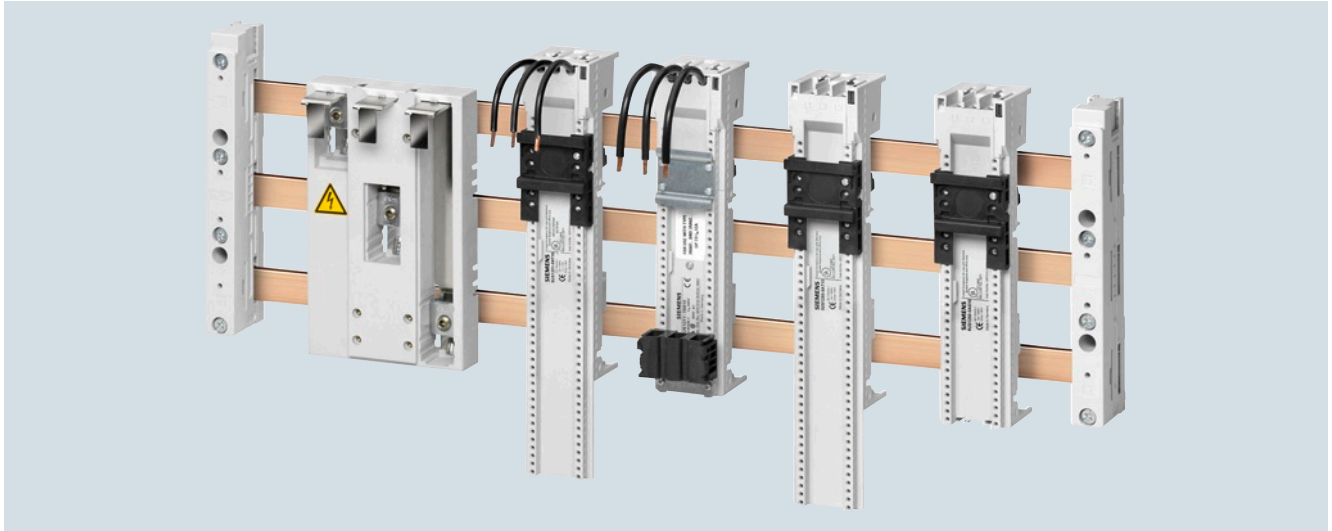
Version	Mounting width	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	MW							
	Auxiliary switches for signaling the switching state for NEOZED SR60 bus-mounting switch disconnectors (5SH5525)							
	1 CO	0.5	5SH5525		1	1/50 units	1CU	0.008
	Lateral modules							
	For greater heat dissipation for loads from 35 A with NEOZED bus-mounting switch disconnectors							
5SH5526	0.5		5SH5526		1	5/50 units	1CU	0.066
	Reducers							
	For NEOZED fuse links D01 In SR60 bus-mounting switch disconnectors							
5SH5527	--		5SH5527		1	10/100 units	1CU	0.001

Busbar Systems

8US 60 mm Busbar Systems up to 1600 A

Device adapters and device holders

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)	Adapter		Connecting cable			Standard	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
			Length	Width	Cross-section	Temperature max.	Rated current								
			mm	mm	AWG	°C	A	V							kg
 Device holders with 3RA2120	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	0.285
	Direct-on-line starters	1	200	45	12	150	25	690/600 ¹⁾	UL 508	8US1251-5DS10		1	1 unit	1CU	0.285
	Reversing starters	1	260	45	12	150	25	690/600 ¹⁾	UL 508	8US1251-5DT10		1	1 unit	1CU	0.312
	Reversing starters + Device holders	1	200	45	--	--	--	--	UL 508	8US1251-5DS10 + 8US1250-5AS10		1	1 unit	1CU	0.217
 Device holders with 3RA2120	Size S00 devices with screw connection														
	Circuit breakers	1	200	45	12	150	25	690/600 ¹⁾	UL 508	8US1251-5DS11		1	1 unit	1CU	0.315
	Circuit breakers	1	260	45	12	150	25	690/600 ¹⁾	UL 508	8US1251-5DT11		1	1 unit	1CU	0.330
	Direct-on-line starters	1	260	45	12	150	25	690/600 ¹⁾	UL 508	8US1251-5DT11		1	1 unit	1CU	0.330
	Reversing starters + Device holders	1	260	45	12	150	25	690/600 ¹⁾	UL 508	8US1251-5DT11 + 8US1250-5AT10		1	1 unit	1CU	0.244

¹⁾ Value applies to UL 508

Busbar Systems

8US 60 mm Busbar Systems up to 1600 A

Device adapters and device holders

Busbar device adapters for	Number of support rails (35 mm)	Adapter		Connecting cable				Standard	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
		Length mm	Width mm	Cross-section AWG	Temperature max. °C	Rated current A	Rated voltage V								
Size S0 devices with screw connection															
 Device holders with 3RA2220	Circuit breakers	1	200	45	12	150	25	690/600 ¹⁾	UL 508	8US1251-5DS10		1	1 unit	1CU	0.285
	Circuit breakers	1	260	45	10	150	32	690/600 ¹⁾	UL 508	8US1251-5NT10		1	1 unit	1CU	0.334
	Direct-on-line starters	1	260	45	10	150	32	690/600 ¹⁾	UL 508	8US1251-5NT10		1	1 unit	1CU	0.334
	Reversing starters +	1	260	45	10	150	32	690/600 ¹⁾	UL 508	8US1251-5NT10		1	1 unit	1CU	0.334
	Device holders	1	260	45	--	--	--	--	UL 508	8US1250-5AT10		1	1 unit	1CU	0.244
Size S0 devices with spring-type terminals															
 Device holders with 3RA2220	Circuit breakers	1	260	45	10	150	32	690/600 ¹⁾	UL 508	8US1251-5NT11		1	1 unit	1CU	0.329
	Direct-on-line starters	1	260	45	10	150	32	690/600 ¹⁾	UL 508	8US1251-5NT11		1	1 unit	1CU	0.329
	Reversing starters +	1	260	45	10	150	32	690/600 ¹⁾	UL 508	8US1251-5NT11		1	1 unit	1CU	0.329
	Device holders	1	260	45	--	--	--	--	UL 508	8US1250-5AT10		1	1 unit	1CU	0.244
Size S2 devices NEW															
  	Circuit breakers	1	200	54	4	150	80	690/600 ¹⁾	UL 508	8US1261-5MS13		1	1 unit	1CU	0.508
	Direct feeders	1	260	54	4	150	80	690/600 ¹⁾	UL 508	8US1261-6MT10		1	1 unit	1CU	0.572
	Reversing feeders	1	260	119	4	150	80	690/600 ¹⁾	UL 508	8US1211-6MT10		1	1 unit	1CU	0.873
Vibration & shock kit NEW										8US1998-1DA10		1	1 unit	1CU	0.097


¹⁾ Value applies to UL 508

Busbar Systems


8US 60 mm Busbar Systems up to 1600 A

Device adapters and device holders





For SIRIUS 3RV1/3RT1 load feeders

Busbar device adapter for	Number of support rails (35 mm)	Adapter		Connecting cable				Standard	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		Length	Width	Cross-section	Temperature max.	Rated current	Rated voltage								
		mm	mm	AWG	°C	A	V								
Size S3 devices with screw connection															
 Device holder	Circuit breakers	--	215	72	4	105	80	600	UL 508	8US1211-4TR00		1	1 unit	1CU	0.650

Lateral modules for busbar device adapters

Description	Length	Width	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
		mm	mm							
 Lateral modules	For extending busbar device adapters and device holders of the same length		200	9	8US1998-2BJ10		1	10 units	1CU	0.021

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

	Busbar device adapters for	Adapter		Connecting cable		Standard	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	
		Length mm	Width mm	Type	Rated current A									Rated voltage V
	3VA molded case circuit breakers, 3-pole													
	3VA10/11 NEW	200	77	Busbars	144	690		8US1213-4AU01		1	1 unit	1CU	0.569	
	3VA20/21/221	240	105	Tubular contacts	250	690		8US1213-4AP03		1	1 unit	1CU	1.231	
	3VA23	300	140	Tubular contacts	400	690		8US1213-4AH04		1	1 unit	1CU	2.500	
	3VA24	300	140	Tubular contacts	590	690		8US1213-4AH04		1	1 unit	1CU	2.500	
8US1213-4AU01	3VL molded case circuit breakers¹⁾, 3-pole													
	3VL1 ²⁾	175	108	Busbars	160	690		8US1211-4SL01		1	1 unit	1CU	0.573	
	3VL2 ²⁾	175	108	Busbars	160	690		8US1211-4SL01		1	1 unit	1CU	0.573	
	3VL3 ³⁾	175	108	Busbars	250	690		8US1211-4SL00		1	1 unit	1CU	0.636	
	3VL1 to 3VL4 and also with RCD module ²⁾ <i>see chapter "Molded Case Circuit Breakers"</i>	320	184	M10 pin connector	400	690		8US1210-4AF00 +		1	1 unit	1CU	2.651	
	3VL5	325	184	Tubular contacts	580	690		8US1213-4AF00		1	1 unit	1CU	3.141	
8US1011-4SL01	3VL UL circuit breakers, 3-pole													
	VL150X UL CG frame	190	105	Tubular contacts	150	690 600 ⁴⁾	UL 508	8US1213-4AQ01		1	1 unit	1CU	0.968	
	VL150 UL DG frame	190	105	Tubular contacts	150	690 600 ⁴⁾	UL 508	8US1213-4AQ03		1	1 unit	1CU	0.969	
	VL250 UL FG frame	190	105	Tubular contacts	250	690 600 ⁴⁾	UL 508	8US1213-4AQ03		1	1 unit	1CU	0.969	
8US1213-4AQ01		VL400 UL JG frame	296	140	Tubular contacts	400	690 600 ⁴⁾	UL 508	8US1213-4AH00		1	1 unit	1CU	2.466
8US1213-4AH00		VL400X UL LG frame	296	140	Tubular contacts	540	690 600 ⁴⁾	UL 508	8US1213-4AH00		1	1 unit	1CU	2.466
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	2.651	
	3KA55 ⁵⁾ 3KA57 ⁵⁾ 3KA58 ⁵⁾ 3KL55 ⁵⁾ 3KL57 ⁵⁾	320	250	M10 pin connector	630	690		8US1210-4AG00		1	1 unit	1CU	2.868	
3NP5 fuse switch disconnectors, 3-pole														
	3NP5060 (NH00)	175	108	Busbars	160	690		8US1291-4SB00		1	1 unit	1CU	0.529	
	3NP52 3NP53 3NP54 ⁶⁾	320	250	M10 pin connector	630	690 600 ⁴⁾	UL 508	8US1210-4AG00		1	1 unit	1CU	2.868	

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 stud terminal.

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.



Busbar Systems

8US 60 mm Busbar Systems up to 1600 A






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)	Adapter		Connecting cable				Standard	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
		Length mm	Width mm	Cross-section AWG	Temperature max. °C	Rated current A	Rated voltage V								
 Direct-on-line starters Device holders	Size equivalent to 3RA61														
	1	200	45	10	105	32	690	UR, CSA		8US1211-1NS10		1	1 unit	1CU	0.315
 Reversing starters + Device holders Device holders	Size equivalent to 3RA62														
	1	200	45	10	105	32	690	UR, CSA		8US1211-1NS10		1	1 unit	1CU	0.315
	1	200	45	--	--	--	--	UL 508		8US1250-1AA10		1	1 unit	1CU	0.278

For universal device design

	Number of support rails (35 mm)	Adapter		Connecting cable				Rated current	Rated voltage	Standard	DT	Article No. www.siemens.com/product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
		Length	Width	Cross-section	Temperature max.	Length	A										
		mm	mm	AWG	°C	mm	A	V									kg
Devices 45 mm wide																	
Device holder for side mounting onto busbar device adapter, no electrical contact																	
	1	200	45	--	--	--	--	--	UL 508		8US1250-1AA10		1	1 unit	1CU	0.278	
8US1250-1AA10	1	200	45	--	--	--	--	--	UL 508		8US1250-5AS10		1	1 unit	1CU	0.217	
	1	260	45	--	--	--	--	--	UL 508		8US1250-5AT10		1	1 unit	1CU	0.244	
8US1250-5AS10	1	260	45	--	--	--	--	--	UL 508		8US1250-5AT10		1	1 unit	1CU	0.244	
	1	260	45	--	--	--	--	--	UL 508		8US1250-5AT10		1	1 unit	1CU	0.244	
8US1250-5AT10	1	260	45	--	--	--	--	--	UL 508		8US1250-5AT10		1	1 unit	1CU	0.244	
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																	
	1	200	45	12	150	165	25	690/600 ¹⁾	UL 508		8US1251-5DS11		1	1 unit	1CU	0.315	
	1	200	45	12	150	99	25	690/600 ¹⁾	UL 508		8US1251-5DS10		1	1 unit	1CU	0.285	
	1	260	45	12	150	99	25	690/600 ¹⁾	UL 508		8US1251-5DT10		1	1 unit	1CU	0.312	
	1	260	45	12	150	165	25	690/600 ¹⁾	UL 508		8US1251-5DT11		1	1 unit	1CU	0.330	
8US1261-5MS13	1	260	45	10	150	99	32	690/600 ¹⁾	UL 508		8US1251-5NT10		1	1 unit	1CU	0.334	
	1	260	45	10	150	165	32	690/600 ¹⁾	UL 508		8US1251-5NT11		1	1 unit	1CU	0.329	
	1	200	45	10	105	118	32	690/600 ¹⁾	UL 508		8US1211-1NS10		1	1 unit	1CU	0.315	
	1	200	54	4	150	150	80	690/600 ¹⁾	UL 508		8US1261-5MS13		1	1 unit	1CU	0.508	
	1	260	54	4	150	150	80	690/600 ¹⁾	UL 508		8US1261-6MT10		1	1 unit	1CU	0.572	
	1	260	119	4	150	150	80	690/600 ¹⁾	UL 508		8US1211-6MT10		1	1 unit	1CU	0.873	
	--	215	72	4	105	210	100	690/600 ¹⁾	UL 508		8US1211-4TR00		1	1 unit	1CU	0.650	
8US1261-6MT10	--	215	72	4	105	210	100	690/600 ¹⁾	UL 508		8US1211-4TR00		1	1 unit	1CU	0.650	
Lateral modules																	
For extending busbar device adapters and device holders of the same length																	
	--	200	9	--	--	--	--	--			8US1998-2BJ10		1	10 units	1CU	0.021	
8US1998-2BJ10	--	200	9	--	--	--	--	--			8US1998-2BJ10		1	10 units	1CU	0.021	

¹⁾ Value applies to UL 508

Busbar Systems

8US 60 mm Busbar Systems up to 1600 A


Accessories

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	DT	Article No. www.siemens.com/ product?Article No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		mm	mm							kg
 8US1921-2BE00	Busbar connection pieces for bars 20 x 5 mm, 20 x 10 mm, 25 x 5 mm, 25 x 10 mm, 30 x 5 mm, 30 x 10 mm	40			8US1921-2BE00		1	6 units	1CU	0.234
	 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
 45	Support rails (35 mm) Support rails made of plastic with fixing screws		45		8US1998-7CB45		1	10 units	1CU	0.015
	 54	Support rails made of plastic with fixing screws		54	8US1998-7CB54		1	10 units	1CU	0.016
	 72	Support rails made of plastic with fixing screws		72	8US1998-7CB72		1	10 units	1CU	0.020
	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	0.001
	Vibration & shock kit Lateral modules For extending busbar device adapters and device holders of the same length	200	9		8US1998-1CA10 8US1998-2BJ10		1	2 units 10 units	1CU 1CU	0.008 0.021