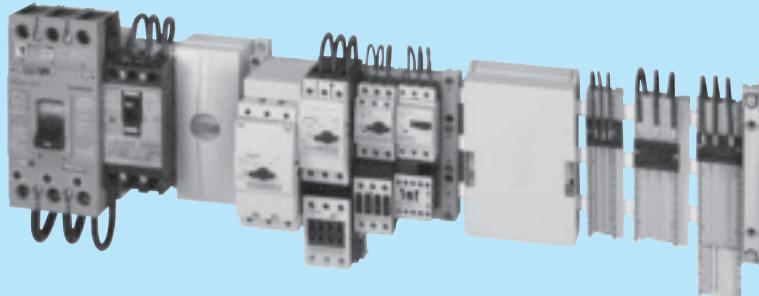


Contents

8US and Fast Bus busbar adapter system



60 mm system

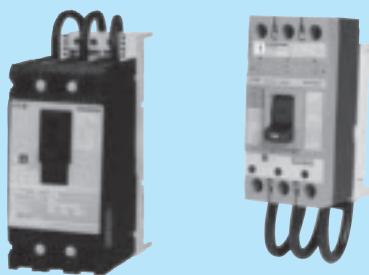
Page

Selection and ordering data

• Busbar holders	5/6
• Fast Bus adapter shoes	5/8
• Incoming supply terminals	5/6
• Copper busbar	5/6
• Busbar covers	5/6
• Other accessories	5/9

Overview	5/2
Introduction	5/3
Technical data	5/3
Dimension drawings	5/10-15

FBCB Fast Bus circuit breakers



FBCB Fast Bus main and feeder circuit breakers

Page

Selection and ordering data

• Fast Bus circuit breakers	5/7
• Fast Bus adapter shoes	5/8

Fast Bus combination starters



**3RA1 Fast Bus combination starters
3RA6 Fast Bus compact starters**

Selection and ordering data

- See section 4

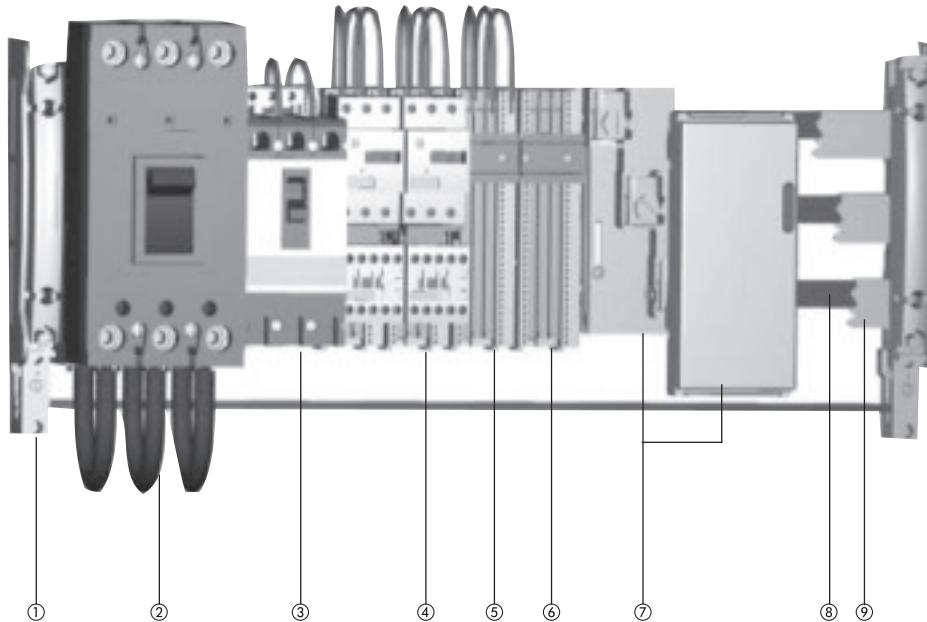
Fast Bus

8US and Fast Bus Busbar Adapter System

Overview

Busbar adapter systems

Busbar adapter systems
with busbar centerline spacing of 60 mm



60 mm busbar system

for sharp-edged copper busbars
to DIN 46 433,
width 20 mm to 30 mm,
thickness 5 mm and 10 mm

	Page		Page		Page
① Busbar holder End and intermediate holders for flat copper profiles	5/6	④ 3RA1 Combination Starters see section 4		⑦ Incoming supply terminals	5/6
② Fast Bus main circuit breakers from 50 to 500A	5/7	⑤ Busbar adapter shoe with wire, for SIRIUS devices size S00 (12.5 A) to S3 (100 A), or other devices (e.g. 5SY supplementary protectors)	5/8	⑧ Copper Busbar	5/6
③ Fast Bus circuit breakers from 15 to 600A	5/7	⑥ Busbar device holder without wire for holding SIRIUS devices size S00 (12.5 A) to S3 (100 A), or for selfwiring	5/8	⑨ Busbar covers 20 mm x 5 mm up to 30 mm x 10 mm and TT busbar	5/6

Fast Bus

8US and Fast Bus Busbar Adapter System

Introduction

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5

General

The Fast Bus Multi-Motor Control system is a 3-phase insulated busbar system used to reduce wire connections and hole drilling when building control panels. SIRIUS 3RV/3RT starter combinations built from components and Siemens circuit breakers use Fast Bus for convenient mounting.

Fast Bus is not new to Siemens. However, due to the narrower SIRIUS starter components, more starters will fit on the same run of Fast Bus.

Features

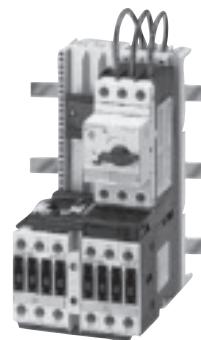
- Simple economical installation
- Compact design
- Requires fewer mounting holes
- Domestic and International approvals
- Touch safe
- Modular design
- Provision for system expansion
- Clip-on shoes provide mechanical and electrical connections to panel mounted busbar
- Main and Feeder breakers mount to busbars

Benefits

- Saves installation time
- Reduces space requirements
- Minimizes layout time
- Allows flexibility for domestic and export business
- Protection for maintenance personnel
- Improves equipment mounting density
- Reduces time and costs associated with system expansion
- Reduces mounting and wiring time and provides trouble free connections
- Allows for quick retrofitting of breakers

How to Select Fast Bus

- 1) Determine the required load.
- 2) Select method to power Fastbus.
—Main lug up to 600A
—Circuit breakers, 15A to 500A
If load exceeds 500A, the CB must be separately panel mounted.
- 3) Select 3RV MSP & 3RT contactor components and appropriate adapter shoe or select 3RA factory assemblies.
- 4) Select appropriate length busbar, busbar support kit, insulation covers and any other required components.



General Ratings of Fastbus System

	IEC	Domestic
Rated operating voltage	690V	600V
Rated insulation voltage, IEC VDE	AC 1000V	N/A
Temperature stability	Up to 105 degrees C	N/A
Busbar support and adapter shoe material	Glass-reinforced polyamide	Same
Color	RAL 7035, light gray	Same

Ampacity

Three single stack busbars

5 x 20 mm	3/16" x 3/4"	362A
5 x 25 mm	3/16" x 1"	432A
5 x 30 mm	3/16" x 1 1/8"	500A

For technical information on E and F frame circuit breakers used as main and feeder breakers, see section 17

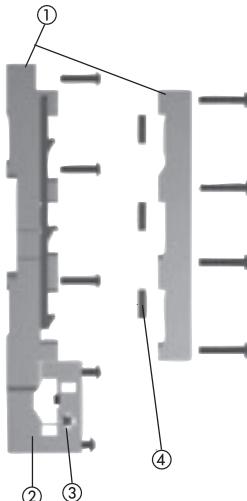
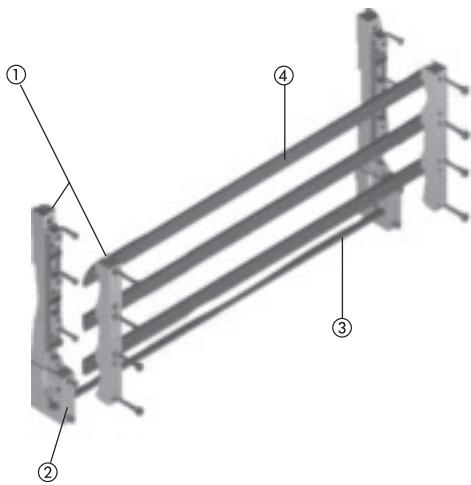
Thermal busbar currents, E-Cu, bare, at 35 °C ambient temperature in accordance with DIN 436711

Busbar dimensions mm	System mm	Thermal current at		
		65 °C Busbar temperature A	85 °C A	105 °C A
20 x 5	60	274	362	430
25 x 5	60	327	432	513
30 x 5	60	379	500	595
20 x 10	60	427	564	670
30 x 10	60	573	756	900

Fast Bus

8US and Fast Bus Busbar Adapter System

Introduction



Fast Bus set-up

The Fast Bus system is designed to be easy to use and to save set up time.

8US Busbar holders

Because the 8US Busbar holders are adjustable, they can be used with a number of different busbar sizes allowing you to standardize on one style of busbar holder for busbars with a width and thickness of 20 mm x 5 mm up to 30 mm x 10 mm thus providing a wide range of current carrying capability.

High quality material

Busbar supports and fuse bases are manufactured from glass-fiber reinforced, thermoplastic polyester with the color RAL 7035, light gray. The material ensures excellent mechanical, chemical and electrical properties. Furthermore, the material has an extremely low flammability and meets the requirements of UL 94 V0.

8WC Busbar and busbar systems

The most common size busbar for applications in the US is the 8WC5053 (20 mm x 5 mm), however there are other styles available depending on your application.

Busbar systems with 60 mm busbar center-to-center clearance have now become firmly estab-

lished in the US market.

The permissible busbar temperature is a decisive factor when dimensioning the busbars. The busbar temperature is dependent on the current, the current distribution, the busbar cross-section, the busbar surface, the position of the busbar, the convection and the ambient temperature. The values stated in the table on page 5/3 can only be considered as reference values because the conditions vary with each location. The values are based on constant current over the whole busbar length.

The trend toward busbars proves most advantageous when the incoming supply is centrally located and the load is distributed symmetrically on both sides.

For the assemblies of a busbar system in the feeder circuit the UL directives specify components with large clearance in air and creepage distances (see the table below). Components of the 8US1 busbar system which meet this requirement can be found in this chapter.

Note:

The design of an 8US1 busbar system for use in the feeder circuit always presumes the use of the UL base plate (8US19 22-ZUA01) so that the clearance in air and creepage distance requirements are met.

Feeder/branch circuit according to UL 508A

The feeder circuit is that part of a circuit which comes in front of the last short circuit protection device (SCPD). The branch circuit is that part of the circuit which follows after the last short circuit protection device. When the 8US1 busbar system is used in a switchgear which must comply with UL directives, it is important to establish whether it is to be used in the feeder circuit or the branch circuit. Components used in the feeder circuit require larger clearance in air and creepage distances than in the branch circuit.

Simple Fast Bus system

The two illustrations above show the very basic items needed when setting up a Fastbus system.

① 8US1 Busbar holder (5/6)

② 8US1 Ground busbar support (shown attached however can be mounted separately 5/6)

③ Ground busbar 6 mm x 6 mm also available in 5 x 20 mm to 10 x 30 mm

④ 8WC Busbar (8WC5053 shown) FBB36 Busbar (5/6)

Short-circuit strength

The short-circuit strength of the busbar system is dependent on the spacing of the busbar holders 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 protection.

Applications

The 8US Fast Bus distribution system is ideal for control panel builders with multiple motor applications. These applications are most common in the material handling, automotive, food processing, pharmaceutical and paper processing industries.

	Clearance in air	Creepage distance
Between live parts	25.4 mm (1 inch)	50.8 mm (2 inch)
Between live parts and grounded, non-insulated metal parts	25.4 mm (1 inch)	25.4 mm (1 inch)

Fast Bus

8US and Fast Bus Busbar Adapter System

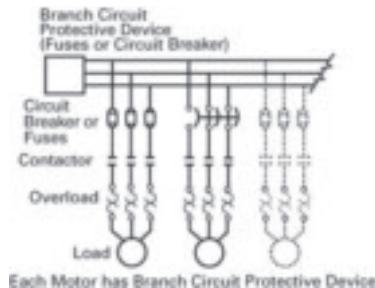
Introduction

Fast Bus combination starters and group installation assemblies

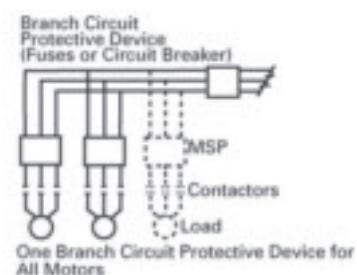
Ratings for Group Installations per NEC 430-53

Group Installation is an approach to building multiple motor control systems in accordance with Section 430-53 of the National Electrical Code. In Group installation, multiple motor starters can be grouped under one short circuit protective device. The 3RV MSP's have been UL listed for use in Group Installations both with and without 3RT contactors when mounted on the Fast Bus system. A 3RT contactor is added when remote operation of the motor is required.

Standard Installation, NEC 430-52



Group Installation, NEC 430-53



MSP Type	Through FLA range Amps	Maximum rating of Group Branch Circuit Protective Device		Short Circuit Current Ratings	
		Fuse	Circuit Breaker	480V	575V
3RV101	0, 11-12	The main fuse should be selected based on the FUSE selection procedure listed below.	The main CB should be selected based on the CIRCUIT BREAKER selection procedure listed below.	65kA	10kA
3RV102	0, 11-12.5			65kA	30kA
3RV102	11-25			65kA	10kA
3RV103	11-50			65kA	30kA
3RV104	28-100			65kA	30kA

The selection of components for Group Installation is a simple process of the following three steps:

1. Selection of the Branch Circuit Protective Device, fuse or circuit breaker.
2. Selection of the Motor Starter protector based on the motor Full Load Amps.
3. Selection of the 3RT contactor based on the HP and voltage rating of the motor.

Circuit Breaker Selection

Select a circuit breaker (CB) between:

Minimum CB size (per NEC430-110): Sum of all motor FLC (per NEC table 430-150) x115%.

Maximum CB size (per NEC430-53c): 250% x FLC of the largest motor + FLC of all other motors.

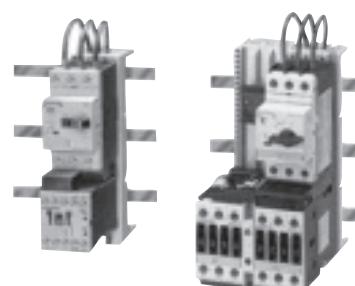
Fuse Selection

Calculate the maximum fuse size per NEC430-53c.

Max Fuse Size = $175\% \times \text{FLC}$ of largest motor + FLC of all other motors (FLC's from NEC table 430-150).

MSP Type	MSP Size	Through FLA range Amps	Short Circuit Current Ratings (Type E) ¹⁾		
			240V	480Y/277V	600Y/347V
3RV102	S0	0, 11-12	65kA	65kA	30kA
3RV103	S2	11-50	65kA	65kA	25kA
3RV104	S3	28-100	65kA	65kA	30kA (up to 75A)

¹⁾ MSP sizes S0 and S3 require additional terminal kits for type E applications. See section 1



Fast Bus

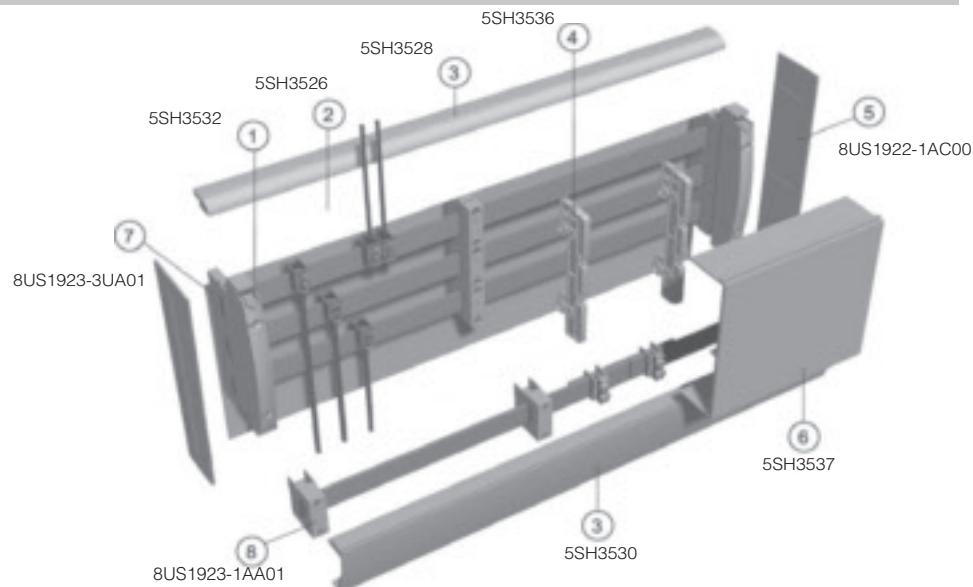
Fast Bus Busbar Adapter System

60 mm system

Selection and ordering data

for sharp-edged copper busbars to DIN 46 433, width 20 mm to 30 mm, thickness 5 mm and 10 mm

- ① Holder for end cover and edge profile
- ② Base plate
- ③ Edge profile
- ④ Holder for Reserve Space Cover
- ⑤ End cover
- ⑥ Reserve Space Cover
- ⑦ Busbar holder, 3-phase
- ⑧ Ground busbar holder



	Description	UL Current rating	UL508A Compliance ¹⁾	Order No.	List Price \$	Pack Units
 8US1922-2UA01	Base plate ② 3-pole system flat	230 mm x 1100 mm	-	required	8US19 22-2UA01	
 8WC5	Copper Busbar (flat copper bars with tin plating) 20 mm x 5 mm x 914 mm (36") 20 mm x 5 mm x 1524 mm (60") 20 mm x 5 mm x 2000 mm (78.74") 25 mm x 5 mm x 2000 mm (78.74") 30 mm x 5 mm x 2000 mm (78.74") 20 mm x 10 mm x 2000 mm 30 mm x 10 mm x 2000 mm 720 mm ² x 2400 mm (94.49")	for 60 mm systems for 60 mm systems Twin T (TT) Busbar	362A 362A 362A 432A 500A 564A 756A 1400A	yes yes yes yes yes yes yes yes	FBB36 FBB60 8WC5053 8WC5054 8WC5055 8WC5063 8WC5065 8US19 48-2AA00	3 pcs 3 pcs
 8US1948-2AA00	Busbar holder (end and intermediate) ⑦ 3-pole with inside mounting 3-pole with inside mounting	for 20 mm - 30 mm x 5 mm or 10 mm for Twin T (TT) w/ end cover	- -	yes yes	8US19 23-3UA01 8US19 43-3AA00	
 8US1923-3UA01	Busbar holder end cover ⑤ 3-pole end cover	fits 8US19 23-3UA01	-	required	8US19 22-1AC00	
 8US1923-1AA01	Ground Busbar holder ⑧ 1-pole with inside mounting	for 20 mm - 30 mm x 5 mm or 10 mm ² also for 6 mm x 6 mm	135A	n/a	8US19 23-1AA01	
 8US1922-2AA00	Cover profiles for Busbars for 5 mm busbars up to 30 mm wide for 10 mm busbars up to 30 mm for Twin T (TT) busbar	1100 mm length 1100 mm length 1000 mm length	- - -	required required required	8US19 22-2AA00 8US19 22-2BA00 8US19 22-2DA00	
 5SH3538 8US1921-1BA00	Reserve space cover ④⑥ holder for the Reserve Space Cover for 60 mm systems Reserve Space Cover	for 60 mm systems 1000 mm length	- -	required required	5SH3536 5SH3537	4 pcs
 FBT600F w/cover	Infeed for feeder circuit (accepts all busbar sizes on this page) 3-pole terminal plate with cover 3-pole terminal plate with cover 3-pole terminal plate with cover 3-pole terminal plate with cover 3-pole terminal plate 3-pole terminal plate	20 mm x 200 mm 16-4 AWG 54 mm x 200 mm 10-2/0 AWG 81 mm x 200 mm 2 AWG-250 MCM 180 mm x 200 mm 250-600 MCM 154 mm x 184 mm 300-600 MCM 160 mm x 184 mm for flat bars up to 32 mm x 20 mm	80A 300A 440A 560A 560A 800A	yes yes yes yes yes yes	5SH3538 8US19 21-1BA00 8US19 21-1AA00 FBT600F 8US19 41-2AA03 8US19 41-2AA04	
	cover for 8US19 41-2AA03 and 04	180 mm x 200 mm x 90 mm	-	yes	8US19 22-1GC00	

1) UL 508A labeled panels require the use of components that meet the creepage and air distances of 1" air clearance and 2" creepage distance. N/A = not applicable for given item.

2) Current rating dependent on size of busbar used. Refer to busbar selection data.

Fast Bus

Fast Bus Busbar Adapter System

60 mm system
Circuit breaker kits

Selection and ordering data

Description

FBCB Fast Bus circuit breakers

Offer a full range of circuit breakers from 15A to 250A. All kits 90A and under are pre-assembled on 60 mm Fast Bus adaptor shoes and ready to place on the busbar. Circuit breakers

100A and higher are pre-packed for fast assembly and must be torqued down to the busbar.
A full range of main circuit breakers from 50A to 250A come in pre-

packaged kits that include the circuit breaker, Fast Bus adapter with mounting plate and mounting hardware.



FBCB030

Design

UL Current rating

UL SCCR¹

Breaker frame

List Price \$

Pack units

Circuit breakers

Feeder 3 pole/600V with Fast Bus "snap on" adapter shoes. Wires from shoe to breaker on the line side.

UL Current rating

UL SCCR¹

Breaker frame

List Price \$

Pack units

FBCB015
FBCB020
FBCB025
FBCB030
FBCB035
FBCB040
FBCB045
FBCB050
FBCB060
FBCB070
FBCB080
FBCB090

Circuit breakers with high interrupting

Feeder 3 pole/600V with Fast Bus "snap on" adapter shoes. Wires from shoe to breaker on the line side.

UL Current rating

UL SCCR¹

FBCB020H
FBCB025H
FBCB030H
FBCB035H
FBCB040H
FBCB045H
FBCB050H
FBCB060H
FBCB080H

Feeder circuit breakers

3 pole/600V with bolt on Fast Bus adapter shoes. Wires from shoe to breaker on the line side.

UL Current rating

UL SCCR¹

FBCB100
FBCB110
FBCB125
FBCB150
FBCB175
FBCB200
FBCB225
FBCB250



FBCB100

Main circuit breakers

3 pole/600V with bolt on Fast Bus adapter shoes. Wires from shoe to breaker on the load side.

UL Current rating

UL SCCR¹

FBCB050M
FBCB060M
FBCB070M
FBCB090M
FBCB100M
FBCB125M
FBCB150M
FBCB175M
FBCB200M
FBCB225M
FBCB250M



FBCB250M

Main circuit breakers with high interrupting

3 pole/600V with bolt on Fast Bus adapter shoes. Wires from shoe to breaker on the load side.

UL Current rating

UL SCCR¹

FBCB100M-HB
FBCB125M-HB
FBCB150M-HB
FBCB175M-HB
FBCB200M-HB
FBCB225M-HB
FBCB250M-HB

1) UL Short Circuit Current ratings are based on 480V. Contact Siemens for 600 V ratings.

Fast Bus

Fast Bus Busbar Adapter System

60 mm system
Busbar adapters and device holders

Selection and ordering data

	Busbar device adapters	Number of mounting rails (35 mm)	Rated current A	Connecting cables AWG	Adapter length mm	Adapter width mm	Rated voltage UL V	UL508A ¹ compliance	Order No.	List Price \$ per PU	Pack units	Weight per PU approx kg
	For SIRIUS Size S00/S0								8US12 51-5DM07		0.183	
			MSP's	1	25	12	182	45	600	yes	8US12 51-5DM07	0.183
			Contactors + Overload relays	1	25	12	182	45	600	yes	8US12 51-5DM07	0.183
			Direct start load feeders	1	25	12	182	45	600	yes	8US12 51-5DM07	0.183
			Reversing feeders									
			Busbar adapters + Device holders	1	25	12	182	45	600	yes	8US12 51-5DM07	0.183
			+ Device holders	1	--	--	182	45	600	yes	8US12 50-5AM00	0.158
			+ Connecting plates	--	--	--	--	--	--	yes	8US19 98-1AA00	100 units 0.100
	Size S00/S0 Cage Clamp								8US12 51-5CM47		0.190	
			Direct start load feeders	1	12	14	182	45	600	yes	8US12 51-5CM47	0.190
			Size S2									
			MSP's	1	50	8	182	55	600	yes	8US12 61-5FM08	0.263
			Contactors + Overload relays	1	50	8	182	55	600	yes	8US12 61-5FM08	0.263
			Direct start load feeders	1	50	8	245	55	600	yes	8US12 61-5FP08	0.292
			Reversing feeders									
			Busbar adapters	1	50	8	242	55	600	yes	8US12 61-5FP08	0.292
	Busbar adapters								8US12 60-5AM00		0.202	
			+ Device holders	1	--	--	242	55	600	yes	8US12 60-5AP00	0.243
			+ Connecting plates	--	--	--	--	--	--	yes	8US19 98-1AA00	100 units 0.100
			Size S3									
			VL150 UL, DG frame	--	150	Tubular contacts	190	105	600	yes	8US12 11-4TR00	0.470
			VL250 UL, FG frame	--	250	Tubular contacts	190	105	600	yes	FBS10072	0.530
	For VL UL circuit breakers								8US12 13-4AQ03		1.020	
			VL400 UL, JG frame	--	400	Tubular contacts	296	140	600	yes	8US12 13-4AH00	1.900
			VL400X UL, LG frame	--	540	Tubular contacts	296	140	600	yes	8US12 13-4AH00	1.900
	8US12 13-4AH00											

¹⁾ UL 508A labeled panels require the use of components that meet the creepage and air distances of 1" air clearance and 2" creepage distance.
N/A = not applicable for given item.

Fast Bus

Fast Bus Busbar Adapter System

60 mm system
Terminals and accessories

Selection and ordering data

	Description	Length	Width	UL508A Compliance ¹⁾	Order No.	List Price \$	Pack Units
Terminals for round conductors							
5 mm busbar thickness for 20 mm x 5 mm to 30 mm x 5 mm							
FBT	16 - 6 AWG	180 A	2)		FBT166-1	3	
	12 - 2 AWG	270 A	2)		FBT122-1	3	
	6 - 2/0 AWG	400 A	2)		FBT620-1	3	
	6 AWG - 250 MCM	440 A	2)		FBT6250-1	3	
	3/0 - 350 MCM	460 A	2)		FBT30350	3	
	300 - 600 MCM	560 A	2)		FBT300600	3	
10 mm busbar thickness for 20 mm x 10 mm to 30 mm x 10 mm							
	16 - 6 AWG	180 A	2)		FBT166-2	3	
	12 - 2 AWG	270 A	2)		FBT122-2	3	
	6 - 2/0 AWG	400 A	2)		FBT620-2	3	
	6 AWG - 250 MCM	440 A	2)		FBT6250-2	3	
	3/0 - 350 MCM	460 A	2)		FBT30350	3	
	300 - 600 MCM	560 A	2)		FBT300600	3	
Covering cap for FBT terminals							
8US1922-1GA02	Attaches to busbar	90 mm depth	200 mm	135 mm required	FBC135		
	Attaches to busbar	90 mm depth	200 mm	270 mm required	8US1922-1GA02		
Accessories for busbar adapters and device holders							
Mounting Rail	Mounting rail (35 mm) - plastic complete with mounting screws	45 mm	n/a		8US1998-7CA15	10	
		55 mm	n/a		8US1998-7CA16	10	
		70 mm	n/a		8US1998-4AA00	10	
		90 mm	n/a		8US1998-7CA08	10	
		110 mm	n/a		8US1998-7CA10	10	
Connection holder (for vertical busbar assembly)							
	fixes the MSP to the mounting rail ^③ (for SIRIUS sizes S00/S0)	-	n/a		8US1998-1DA00	20	
Screw holder							
8US1998-1BA00	for supplementary screw fixing of the feeder (for SIRIUS sizes S00/S0)	-	n/a		8US1998-1CA00	20	
Spacer							
	fixes the feeder to the busbar adapter (for SIRIUS sizes S00/S0)	-	n/a		8US1998-1BA00		
Connection wedges							
	for mechanical linking of adapters and switching device holders (2 units required per combination)	-	n/a		FBC20	20	
Outgoing terminal rail for busbar adapters							
Load Side Terminal	Plug-type terminal (complete with supporting element for attaching to busbar adapter and switching device holder. Spring loaded terminals.)						
	3 x 14 AWG (400 V) and 4 x 16AWG (250 V)	91 mm	45 mm	n/a	8US1998-8AM07		
	7 x 14 AWG (400 V)	91 mm	54 mm	n/a	8US1998-8AA10		
Accessories for busbar adapters and device holders							
8US1998-2BM00	Side module for busbar adapter expansion	For adapters w/182 mm	182 mm	10 mm	n/a	8US1998-2BM00	
	Side module for busbar adapter expansion	For adapters w/200 mm	200 mm	9 mm	n/a	8US1998-2BJ10	
Accessories for busbar holder ①							
5SH3528	Top cover for 3-pole busbar holder when using Edge Profile		n/a		5SH3532		
	Side cover for 3-pole busbar holder when using Edge Profile		n/a		5SH3533		
Edge Profile ③							
5SH3531	Solid for top profile	17 mm x 36 mm x 1100 mm		n/a	5SH3528		
	Solid for bottom profile	77 mm x 36 mm x 1100 mm		n/a	5SH3530		
	Slotted	17 mm x 86 mm x 1100 mm		n/a	5SH3531		

1) UL508A labeled panels require the use of components that meet the creepage and air distances of 1" air clearance and 2" creepage distance. N/A = not applicable for given item.

2) Terminals must be manually spaced on the busbar to comply with UL508A distances of 1" air clearance and 2" creepage distance.

3) For uses with 45 mm and 55 mm mounting rail.

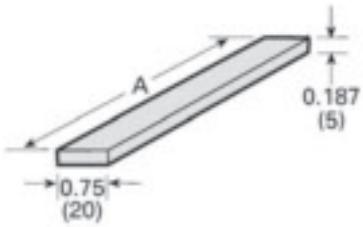
Fast Bus

8US and Fast Bus Busbar Adapter System

60 mm system

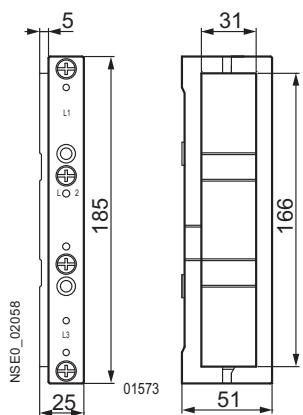
Dimension drawings

FBB36/FBB60 Copper Busbar

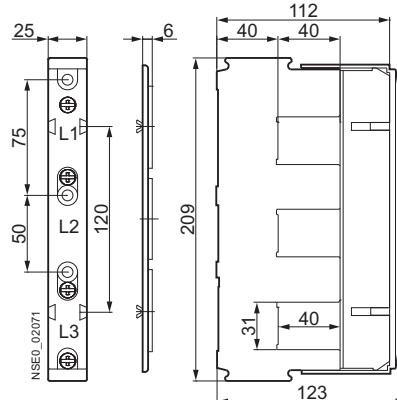


Dimension	A
FBB36	36 (914)
FBB60	60 (1524)

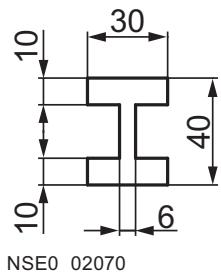
8US19 23-3UA01



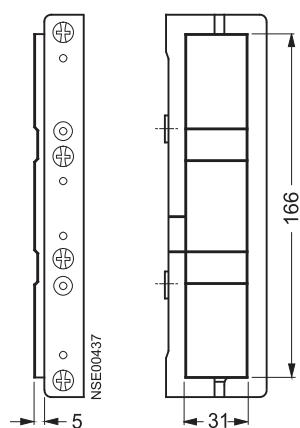
8US19 43-3AA00



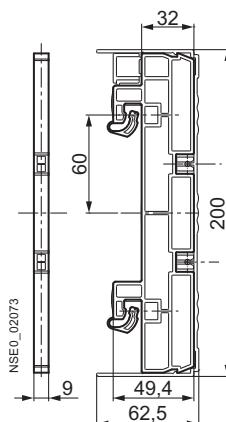
Copper Busbar/TT profile, 8US19 48-2AA00



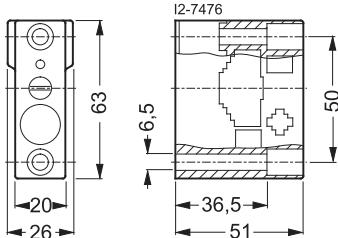
8US19 22-1AC00 with 8US19 23-3UA01



Support for blanking covers, 5SH3 536



8US19 23-1AA01

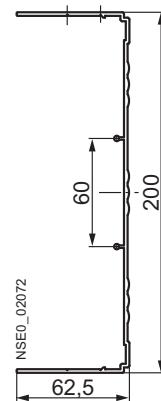


8US19 22-2AA00

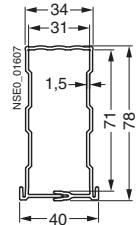


Length 1000 mm

Blanking cover, 5SH3 537



8US19 22-2DA00



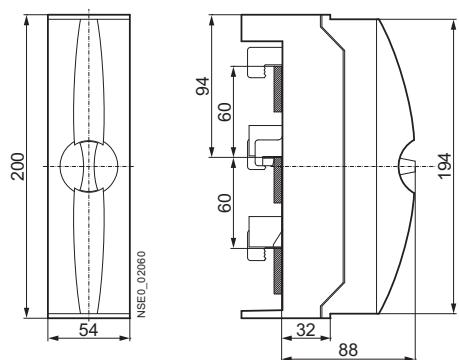
Fast Bus

Fast Bus Busbar Adapter System

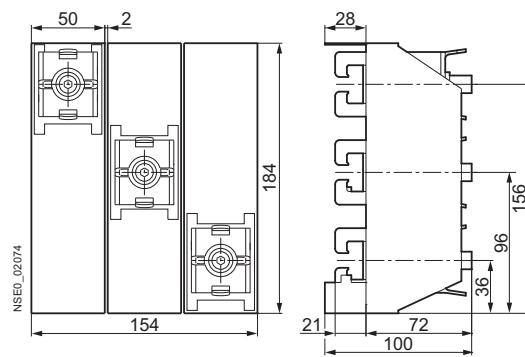
60 mm system

Dimension drawings

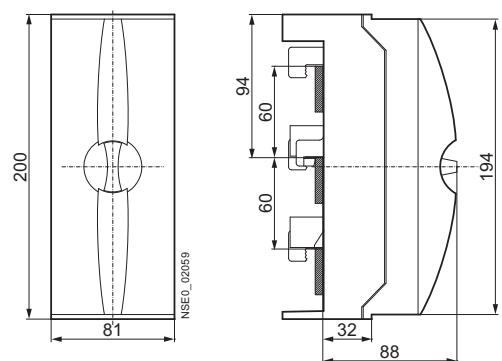
Infeed, 8US19 21-1BA00



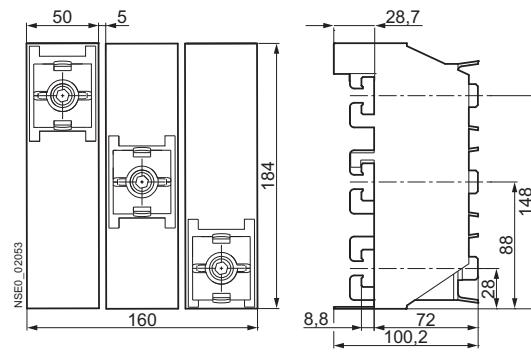
Infeed, 8US19 41-2AA03



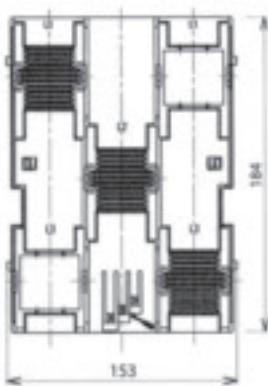
Infeed, 8US19 21-1AA00



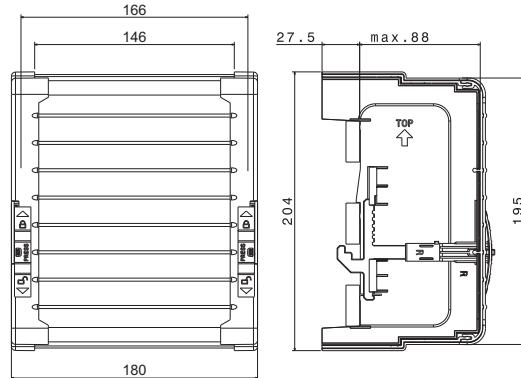
Infeed, 8US19 41-2AA04



FBT600F (supplied with cover)



FBT600F Cover



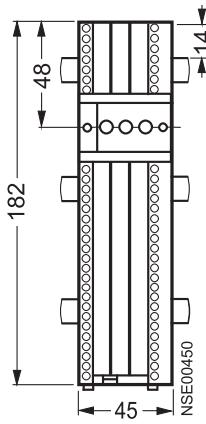
Fast Bus

8US and Fast Bus Busbar Adapter System

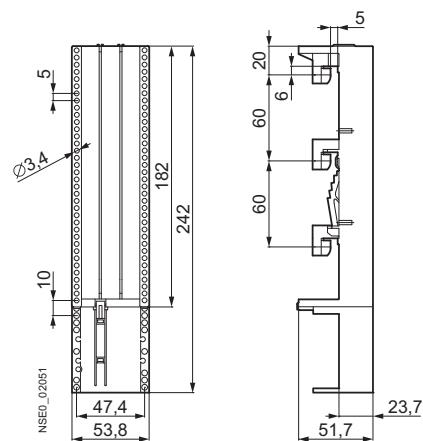
60 mm system

Dimension drawings

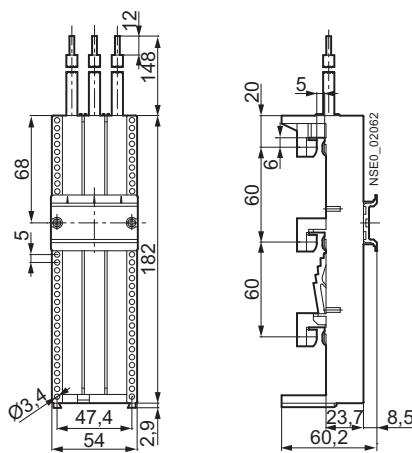
Busbar device adapter, 8US12 50-5AM00



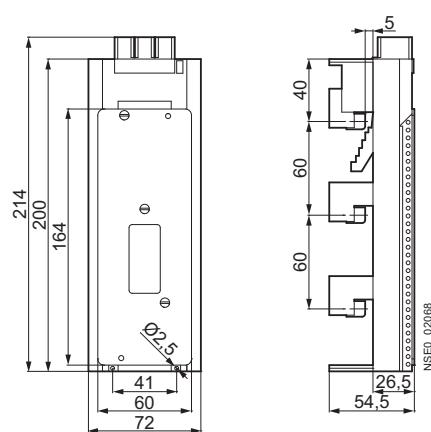
Busbar device adapter, 8US12 60-5AP00



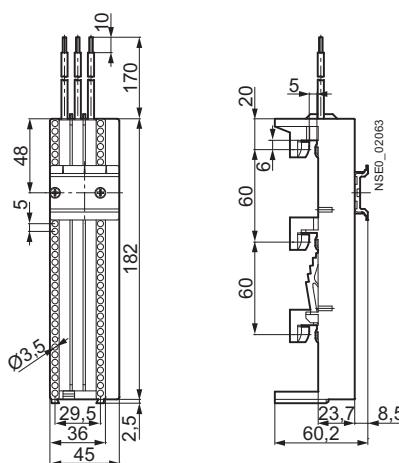
Busbar device adapter, 8US12 61-5FM08



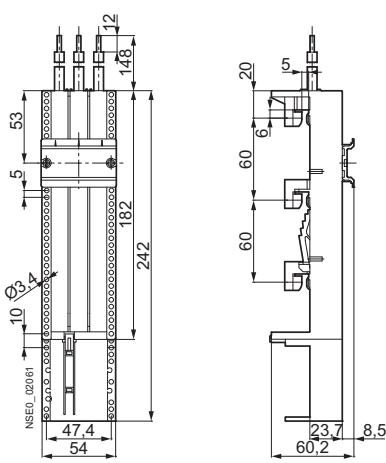
Busbar device adapter, 8US12 11-4TR00



Busbar device adapter, 8US12 51-5DM07



Busbar device adapter, 8US12 61-5FP08



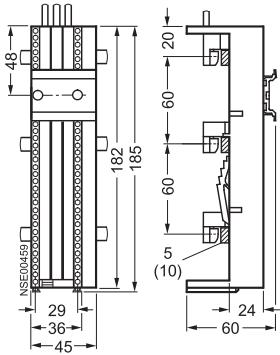
Fast Bus

Fast Bus Busbar Adapter System

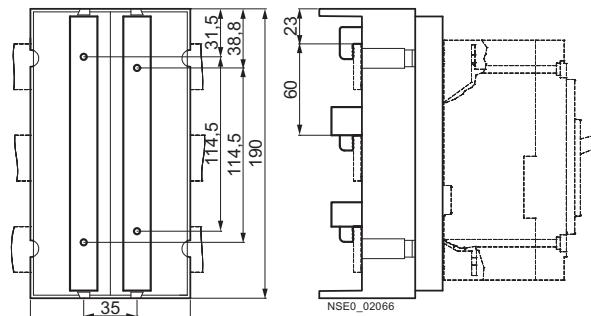
60 mm system

Dimension drawings

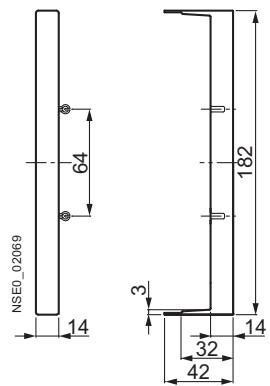
Busbar device adapter, 8US12 51-5CM47



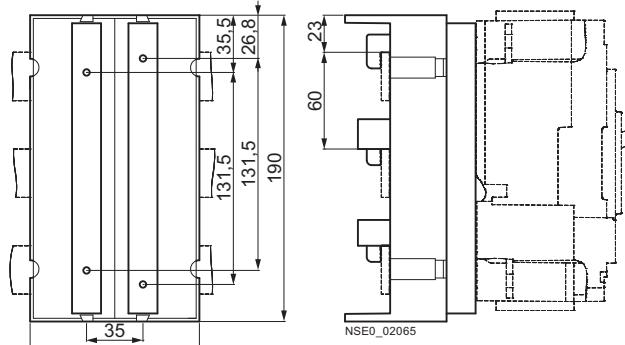
Busbar device adapter, 8US12 13-4AQ01



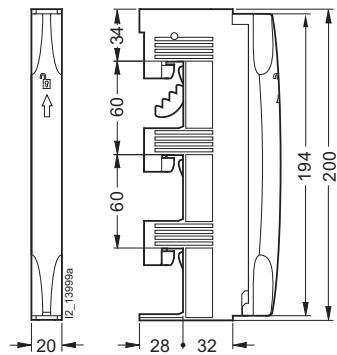
8US19 98-2BM00



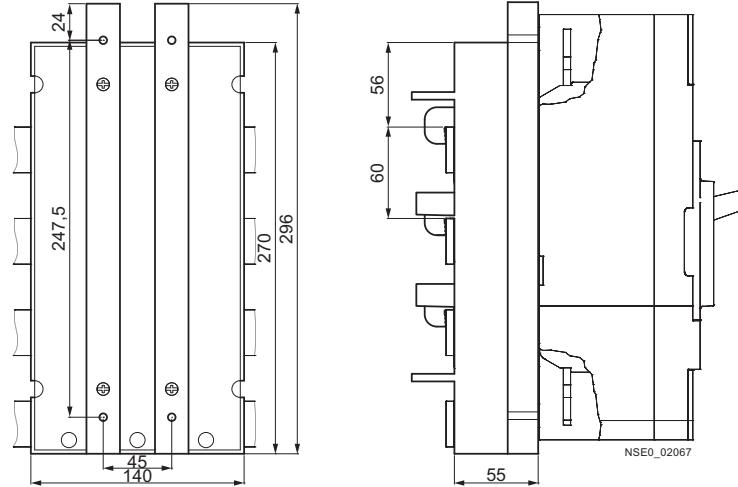
Busbar device adapter, 8US12 13-4AQ03



Infeed 5SH3538



Busbar device adapter, 8US12 13-4AH00



Fast Bus

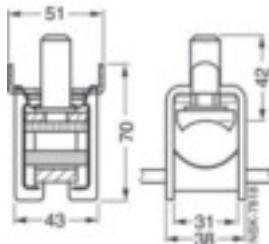
8US and Fast Bus Busbar Adapter System

60 mm system

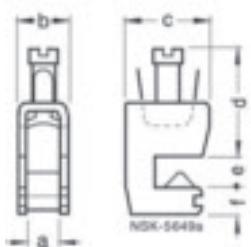
Dimension drawings

Type	a	b	c	d	e	f
FBT166-1	7.5	11.5	22.5	25	5	10
FBT122-1	10.5	15.5	29	35	5	10
FBT6250-1	17	23.5	36	55	5	12
FBT620-1	14.5	20.5	32	42	5	12
FBT166-2	7.5	11.5	22.5	25	10	10
FBT122-2	10.5	15.5	29	35	10	10
FBT6250-2	17	23.5	36	55	10	12
FBT620-2	14.5	20.5	32	42	10	12

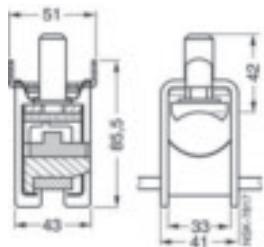
FBT30350



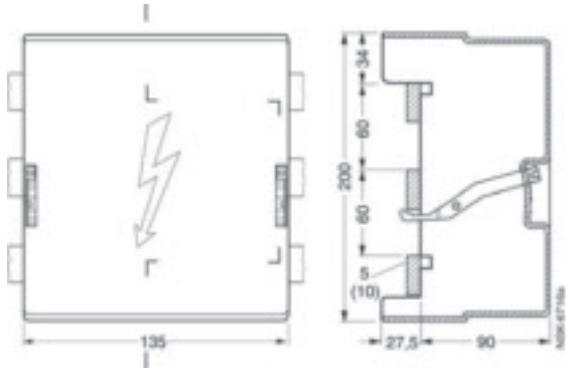
FBT



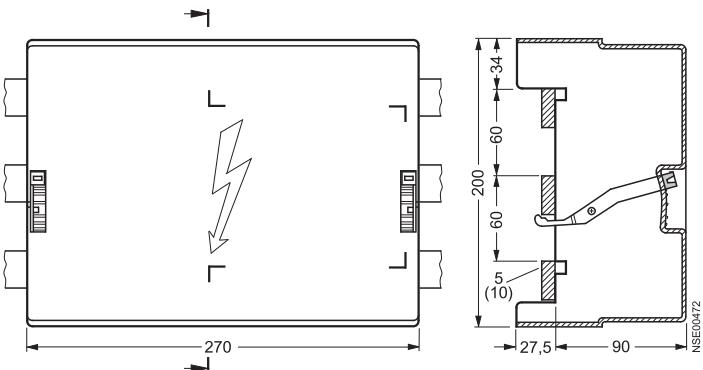
FBT300600



FBC135



8US19 22-1GA02



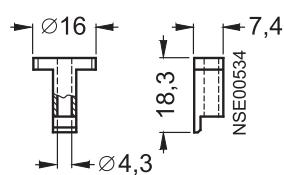
Fast Bus

Fast Bus Busbar Adapter System

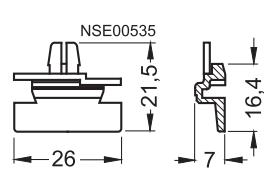
60 mm system

Dimension drawings

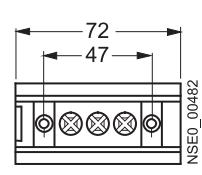
8US19 98-1CA00



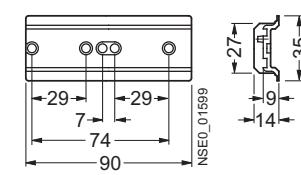
8US19 98-1DA00



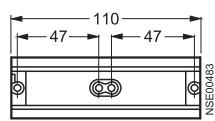
8US19 98-4AA00



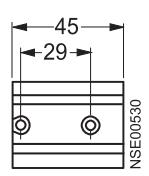
8US19 98-7CA08



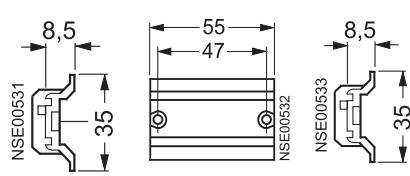
8US19 98-7CA10



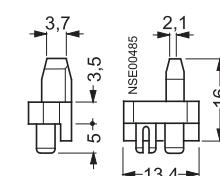
8US19 98-7CA15



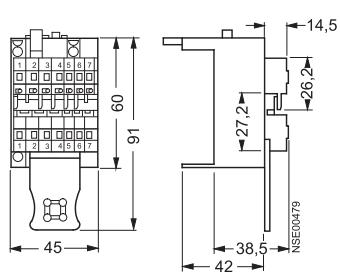
8US19 98-7CA16



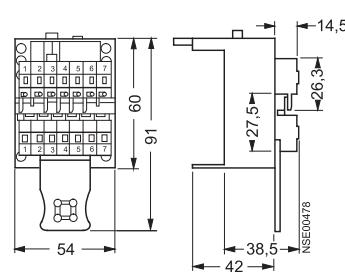
8US19 98-1BA00



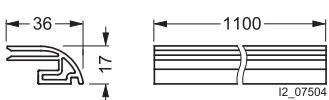
8US19 98-8AM07



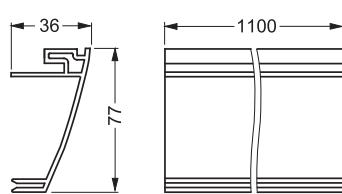
8US19 98-8AA10



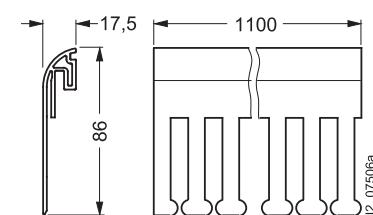
5SH3 528



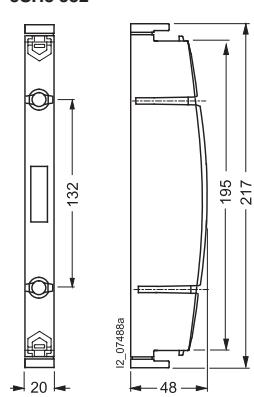
5SH3 530



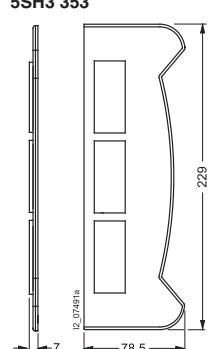
5SH3 531



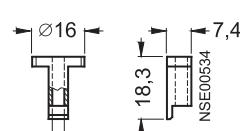
5SH3 532



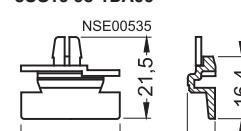
5SH3 353



8US19 98-1CA00



8US19 98-1DA00

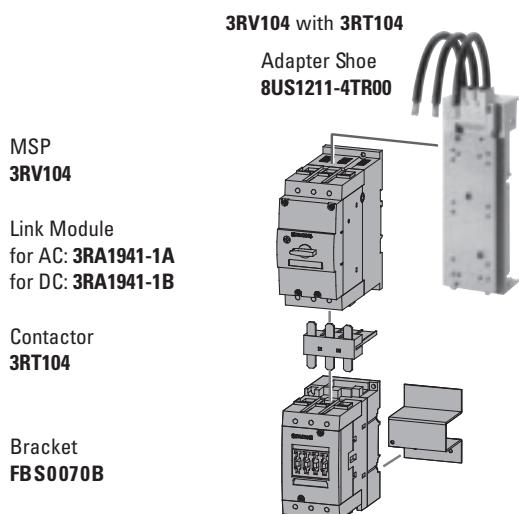
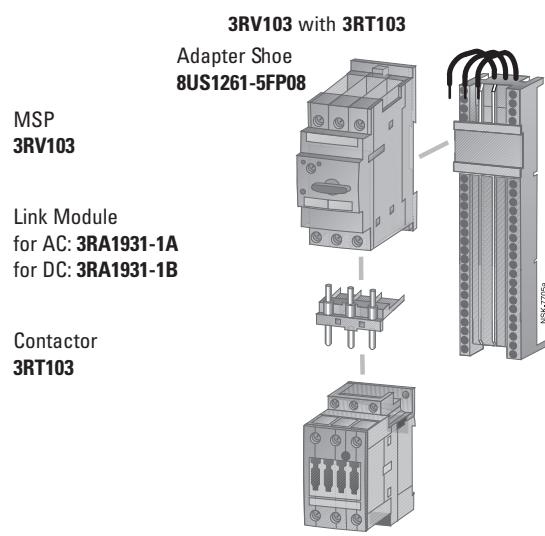
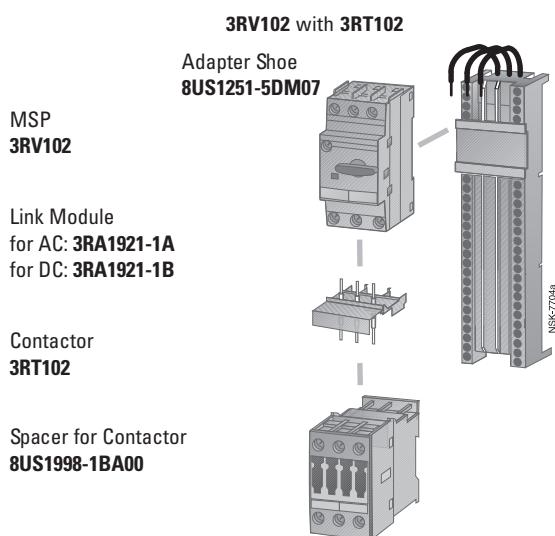
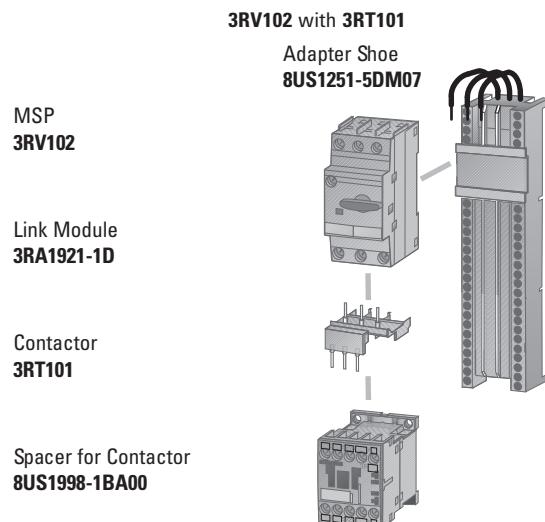
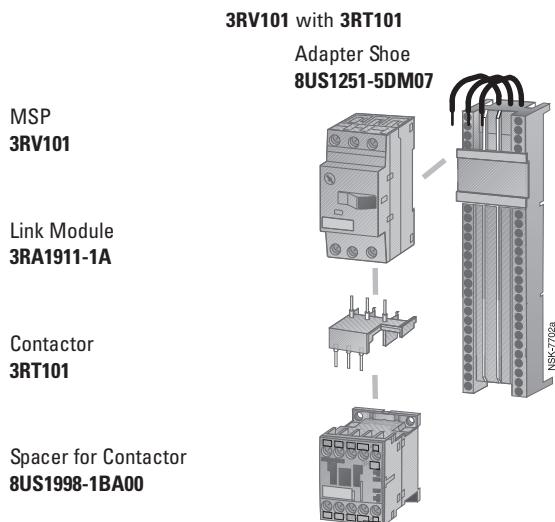


Fast Bus

SIRIUS 3R Fast Bus Combination Starters and Group Installation Assemblies

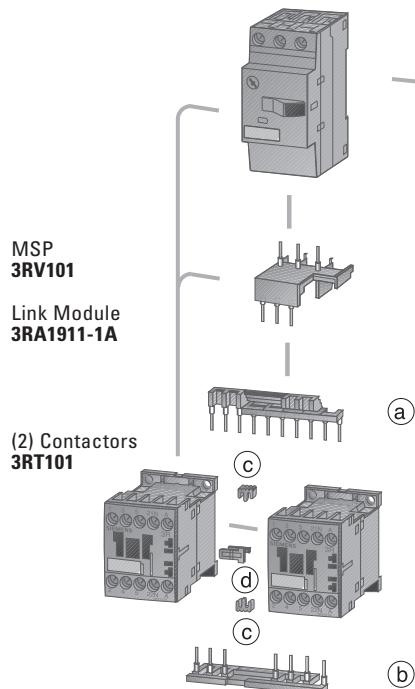
Selection

Required Components for Fast Bus Mounting



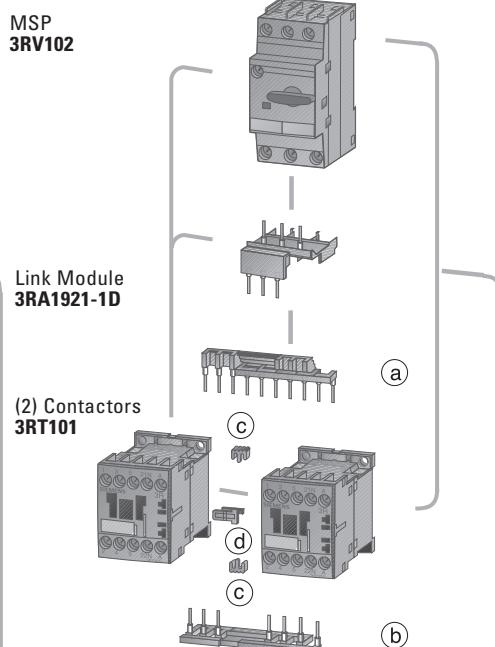
Required Components for Fast Bus Mounting

3RV101 with Reversing 3RT101

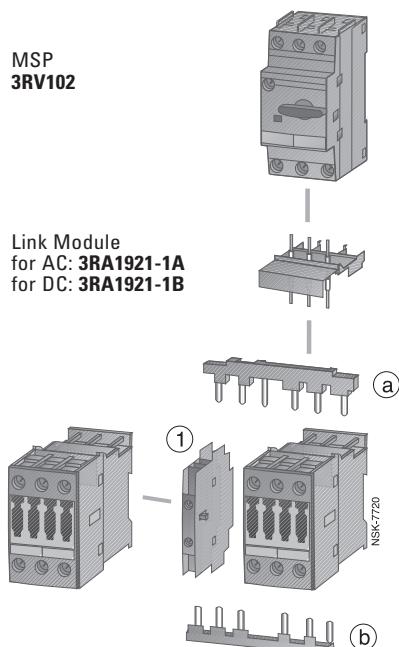
**3RA1913-2A
Wiring Kit**

- (a) Upper Wiring Module
- (b) Lower Wiring Module
- (c) 2 Connecting Clips
- (d) Mechanical Interlock

3RV102 with Reversing 3RT101



3RV102 with Reversing 3RT102

**3RA1923-2A
Wiring Kit**

- (a) Upper Wiring Module
- (b) Lower Wiring Module

Contactor Support for 3RT101:
8US1250-5AM00
Contactor Support for 3RT102:
8US1260-5AP00
(without DIN rail)

Adapter Shoe
8US1251-5DM07

- ① **3RA1924-2B**
Mechanical Interlock
- ② **FBC20**
Fast Clips
- ③ **8US1998-1BA00**
Spacers for Contactors
1 Required per Contactor

Fast Bus

SIRIUS 3R Fast Bus Combination Starters and Group Installation Assemblies

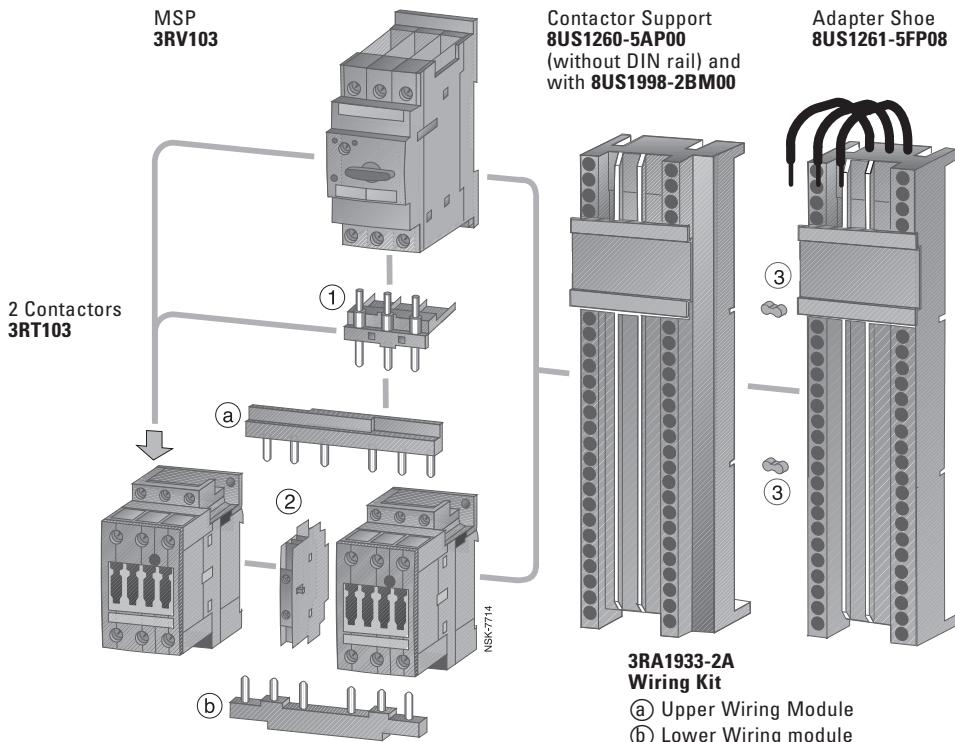
Selection

Required Components for Fast Bus Mounting

- ① Link Module
for AC: **3RA1931-1A**
for DC: **3RA1931-1B**
- ② Mechanical Interlock
3RA1924-2B
- ③ Fast Clips
FBC20

MSP
3RV103

3RV103 with Reversing **3RT103**



Contactor Support
8US1260-5AP00
(without DIN rail) and
with **8US1998-2BM00**

Adapter Shoe
8US1261-5FP08

3RV104 with Reversing **3RT104**

- ① Link Module
for AC: **3RA1941-1A**
for DC: **3RA1941-1B**
- ② Mechanical Interlock
3RA1924-2B

MSP
3RV104

Adapter Shoe
8US1211-4TR00

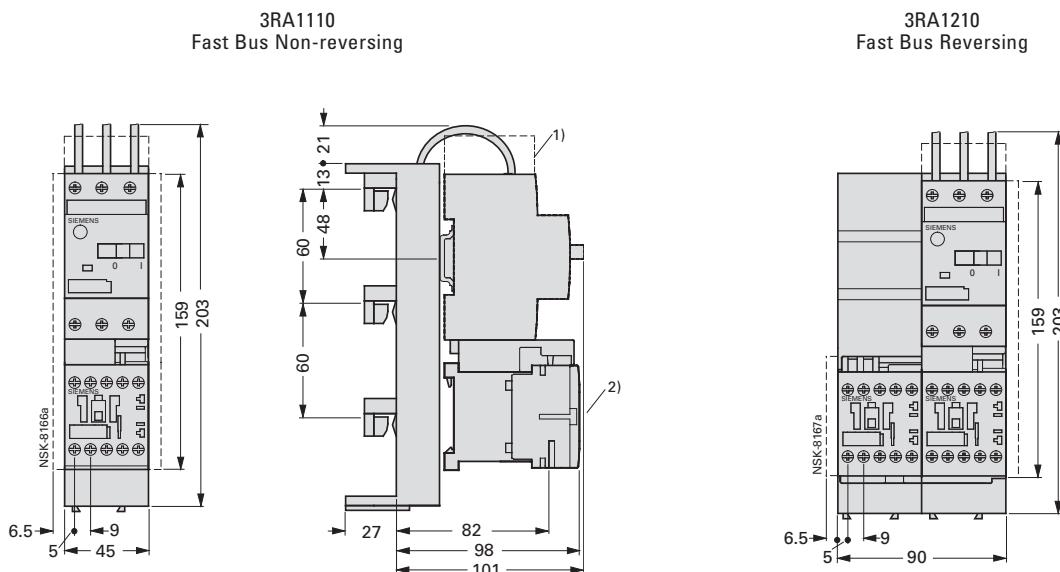
- 3RA1943-2A**
Wiring Kit
④ Upper Wiring Module
⑤ Lower Wiring Module

2 Contactors
3RT104

2 Brackets
FBS0070B



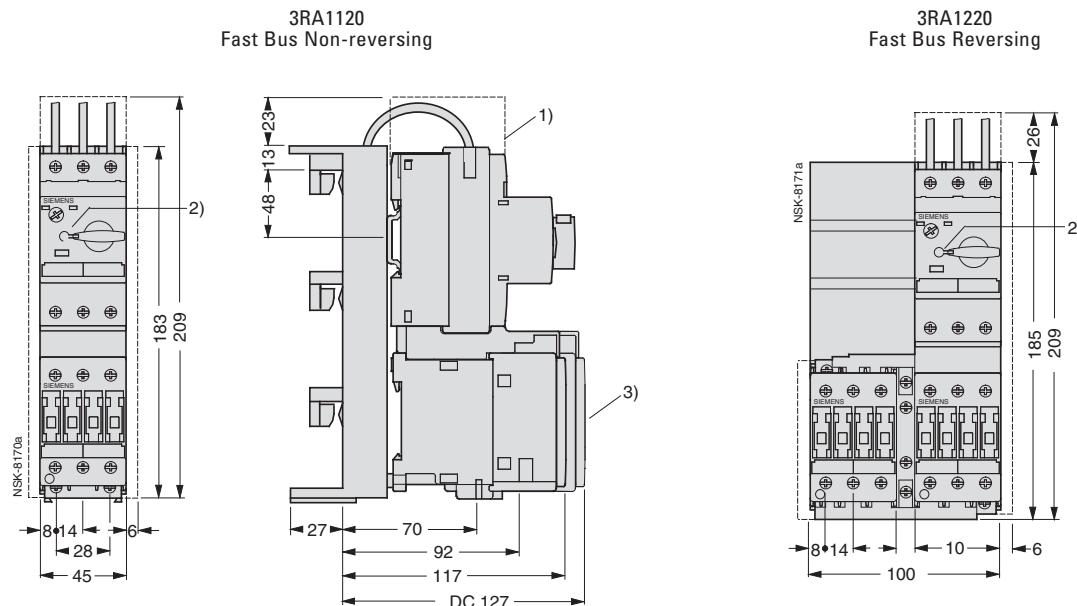
Dimensions, 3RV101 with 3RT101



1) Arcing space

2) When a front auxiliary is installed on the contactor,
add 39 mm to the depth of the contactor.

Dimensions, 3RV102 with 3RT101



1) Arcing space

2) Lockable in OFF position. Padlock diameter 5 mm.
3) When a front mount auxiliary is installed on the
contactor, add 49 mm to the depth of the contactor.

All dimensions shown in millimeters. For reference purposes only. Not to be used for design or construction purposes.

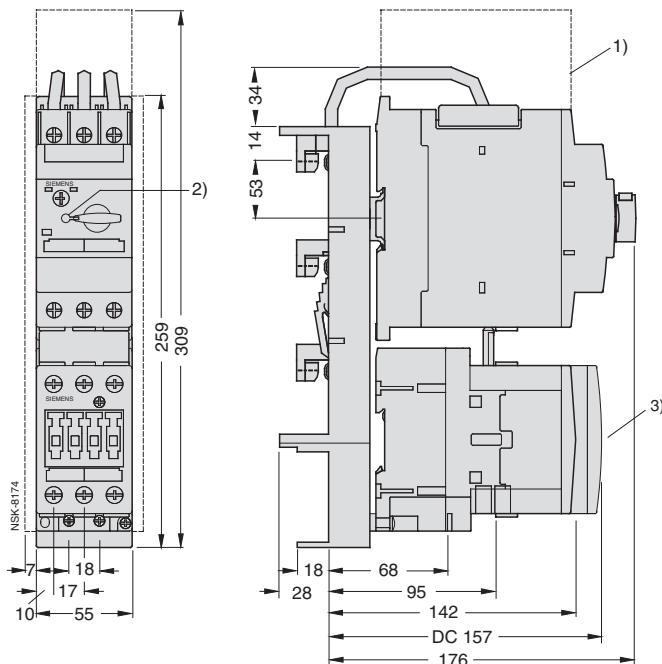
Fast Bus

SIRIUS 3R Fast Bus Combination Starters and Group Installation Assemblies

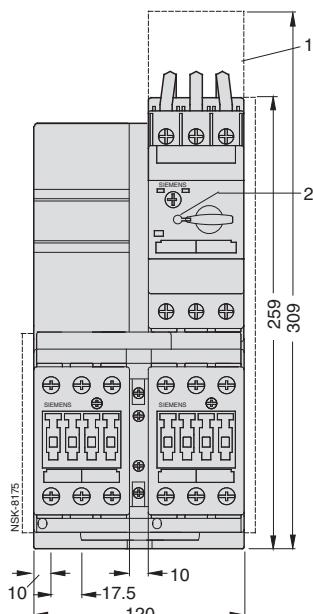
Dimensions

3RV103 with 3RT103

3RA1130
Fast Bus Non-reversing



3RA1230
Fast Bus Reversing

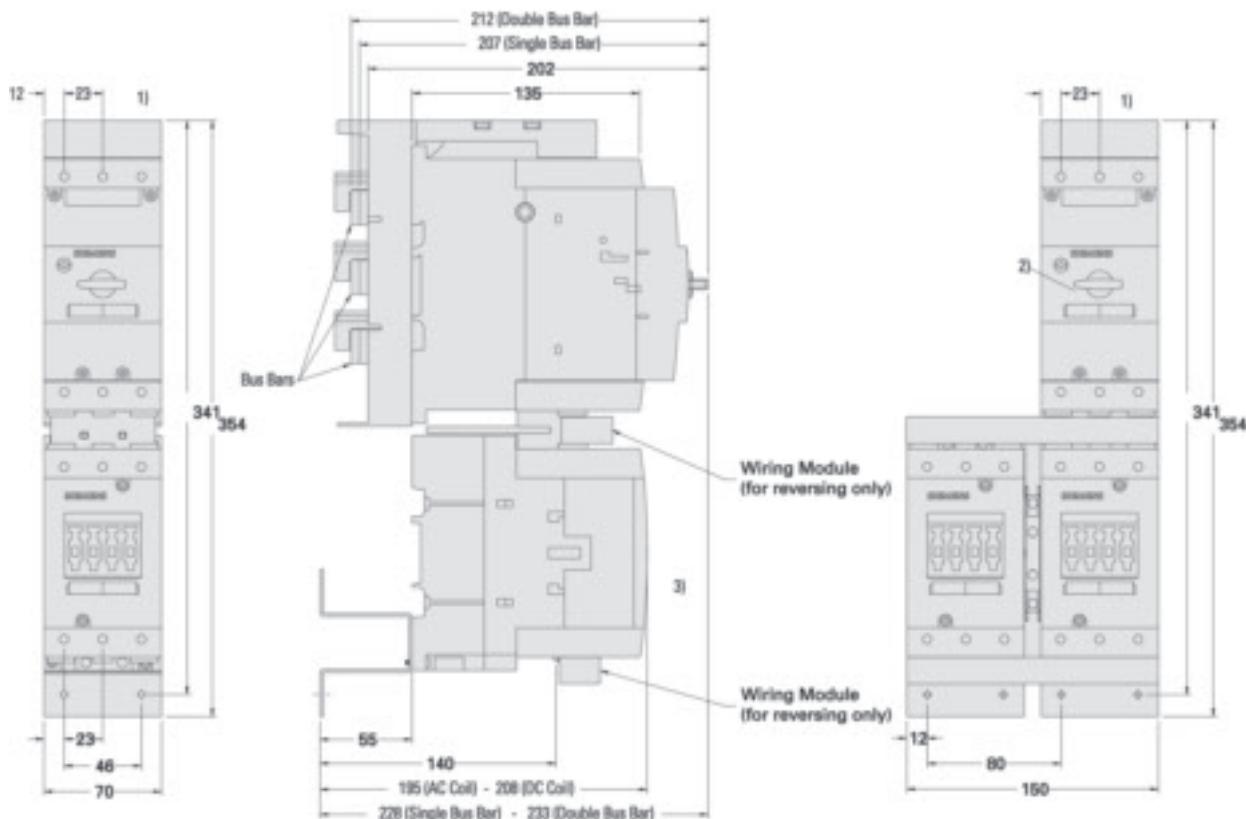


Lateral clearance to grounded components minimum 6 mm.

- 1) Arcing space
- 2) Lockable in OFF position with padlock diameter 5 mm.
- 3) When a front mount auxiliary is installed on the contactor, add 49 mm to the depth of the contactor.

All dimensions shown in millimeters. For reference purposes only. Not to be used for design or construction purposes.

3RV104 with 3RT104



Lateral clearance to grounded components minimum 6 mm.

- 1) Arcing space
- 2) Lockable in OFF position with padlock diameter 5 mm.
- 3) When a front mount auxiliary is installed on the contactor, add 49 mm to the depth of the contactor.

All dimensions shown in millimeters. For reference purposes only. Not to be used for design or construction purposes.

Fast Bus

Notes