

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Motor Starter Protectors/Circuit Breakers up to 100 A

Accessories

Busbar accessories

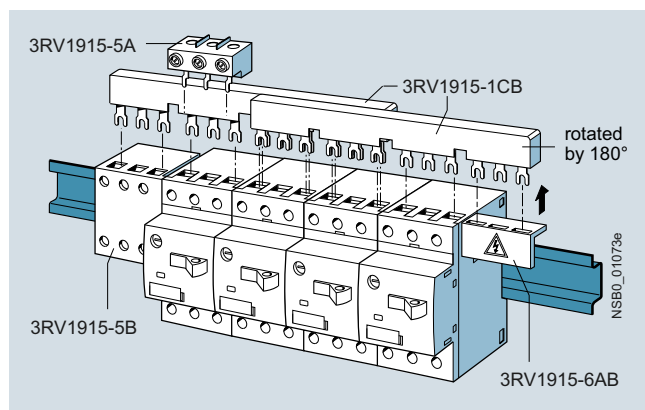
Overview

Insulated three-phase busbar system

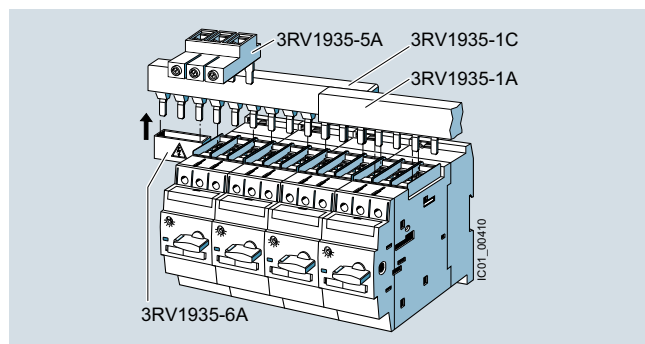
Three-phase busbar systems provide an easy, time-saving and clearly arranged means of feeding 3RV1 motor starter protectors/circuit breakers with screw terminals. Different designs are available for sizes S00, S0 and S2 and can be used for the various different versions of motor starter protectors/circuit breakers. The 3RV1915 three-phase busbar systems are not suitable for 3RV11 motor starter protectors for motor protection with overload relay function.

The busbars are suitable for between 2 and 5 motor starter protectors/circuit breakers. However, any kind of extension is possible by clamping the tags of an additional busbar (rotated by 180°) underneath the terminals of the respective last motor starter protector/circuit breaker.

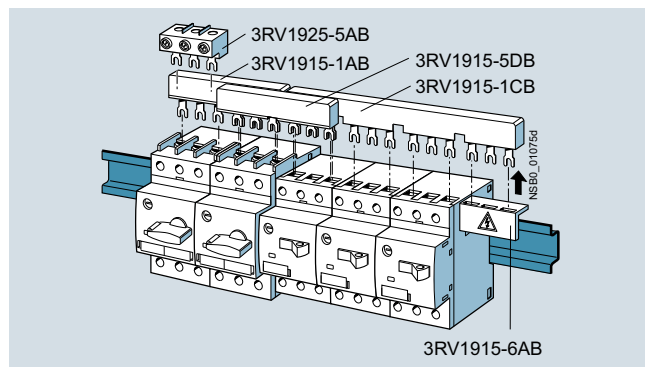
A combination of motor starter protectors of different sizes is possible only with sizes S00 and S0. Connecting pieces are available for this purpose. The motor starter protectors/circuit breakers are supplied by appropriate infeed terminals.



SIRIUS three-phase busbar system size S00



SIRIUS three-phase busbar system size S2



SIRIUS three-phase busbar system, with example for combining sizes S00 and S0

The three-phase busbar systems are finger-safe. They are designed for any short-circuit stress which can occur at the output side of connected motor starter protectors/circuit breakers.

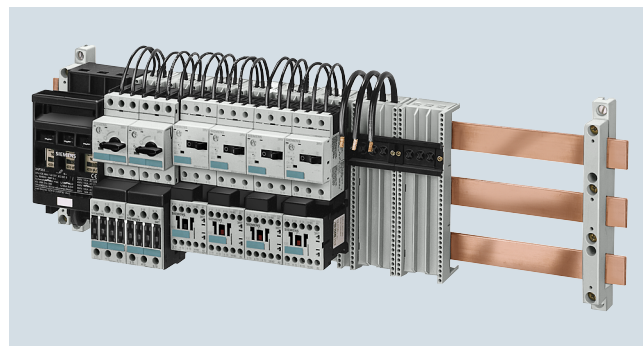
The three-phase busbar systems can also be used to construct "Type E Starters" of size S00 or S2 according to UL/CSA. Special infeed terminals must be used for this purpose however (see page 7/21).

BUS busbar adapters for 40 mm and 60 mm systems

The motor starter protectors/circuit breakers are mounted directly with the aid of busbar adapters on busbar systems with 40 mm and 60 mm center-to-center clearance in order to save space and to reduce infeed times and costs. Busbar adapters for busbar systems with 40 mm center-to-center clearance are suitable for copper busbars with a width of 12 mm to 15 mm, while those with 60 mm center-to-center clearance are suitable for copper busbars with a width of 12 mm to 30 mm. The busbars can be 4 to 5 mm or 10 mm thick.

The motor starter protectors/circuit breakers are snapped onto the adapter and connected on the line side. This prepared unit is then plugged directly onto the busbar system, and is thus connected both mechanically and electrically at the same time.

For further busbar adapters for snap-mounting direct-on-line starters and reversing starters as well as additional accessories such as line terminals and outgoing terminals, flat copper profile, etc., see Catalog LV 10 "Low-Voltage Power Distribution and Electrical Installation Technology".



SIRIUS load feeders with busbar adapters snapped onto busbars

Motor Starter Protectors/Circuit Breakers

SIRIUS 3RV1 Motor Starter Protectors/Circuit Breakers up to 100 A

Accessories

Busbar accessories

Selection and ordering data

Modular spacing	Number of motor starter protectors that can be connected			Rated current I_n at 690 V	For motor starter protectors	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	Without lateral accessories	With lateral auxiliary switch	With auxiliary release								
mm				A	Size						
Three-phase busbars											
 3RV1915-1AB	For feeding several motor starter protectors with screw terminals, mounted side by side on standard mounting rails, insulated, with touch protection										
	45 ¹⁾	2	--	--	63	S00, S0	▶	3RV1915-1AB	1	1 unit	41E
		3				S00, S0	▶	3RV1915-1BB	1	1 unit	41E
		4				S00, S0	▶	3RV1915-1CB	1	1 unit	41E
		5				S00, S0	▶	3RV1915-1DB	1	1 unit	41E
 3RV1915-1BB	55 ¹⁾	--	2	--	63	S00, S0	▶	3RV1915-2AB	1	1 unit	41E
			3			S00, S0	▶	3RV1915-2BB	1	1 unit	41E
			4			S00, S0	▶	3RV1915-2CB	1	1 unit	41E
			5			S00, S0	▶	3RV1915-2DB	1	1 unit	41E
 3RV1915-1CB	63 ¹⁾	--	--	2	63	S00, S0	▶	3RV1915-3AB	1	1 unit	41E
				4		S00, S0	▶	3RV1915-3CB	1	1 unit	41E
 3RV1915-1DB	55 ¹⁾	2	--	--	108	S2	▶	3RV1935-1A	1	1 unit	41E
		3				S2	▶	3RV1935-1B	1	1 unit	41E
		4				S2	▶	3RV1935-1C	1	1 unit	41E
	75 ²⁾	--	2	2	108	S2	▶	3RV1935-3A	1	1 unit	41E
			3	3		S2	▶	3RV1935-3B	1	1 unit	41E
			4	4		S2	▶	3RV1935-3C	1	1 unit	41E

¹⁾ Not suitable for 3RV11 motor starter protectors for motor protection with overload relay function. Common clamping of S00 and S0 motor starter protectors is not possible, due to the different modular spacings and terminal heights. The 3RV1915-DB connecting piece is available for connecting busbars from size S0 to size S00.

²⁾ For 3RV1 motor starter protectors with accessories mounted on the side. Auxiliary releases and lateral auxiliary/signaling switches cannot be used in combination.

Version	Modular spacing	For motor starter protectors	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	mm	Size						

Connecting pieces for three-phase busbars

 3RV1915-5DB	For connecting three-phase busbars for motor starter protectors of size S0 (left) to size S00 (right)										
	45	S00, S0	▶	3RV1915-5DB		1	1 unit	41E			

Conductor cross-section			Tightening torque	For motor starter protectors	DT	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Solid or stranded	Finely stranded with end sleeve	AWG cables, solid or stranded								
mm ²	mm ²	AWG	Nm	Size						

Three-phase infeed terminals

	Connection from top										
	2.5 ... 25	4 ... 16	10 ... 4	4	S00	▶	3RV1915-5A	1	1 unit	41E	
					S0	▶	3RV1925-5AB	1	1 unit	41E	
	Connection from below¹⁾										
	2.5 ... 25	4 ... 16	10 ... 4	Input: 4, Output: 2 ... 2.5	S00, S0	▶	3RV1915-5B	1	1 unit	41E	
	Connection from top										
	2.5 ... 50	1.5 ... 35	14 ... 0	4	S2	▶	3RV1935-5A	1	1 unit	41E	

Three-phase infeed terminals for constructing "Type E Starters"

Connection from top									
2.5 ... 25	4 ... 16	10-4	2 ... 4	S0	▶	3RV1925-5EB	1	1 unit	41E
10 ... 50	--	8 ... 0	4.5 ... 6	S2	▶	3RV1935-5E	1	1 unit	41E

¹⁾ This terminal is connected in place of a switch, please take the space requirement into account.