

Contactors Assemblies

3RA13, 3RA14 Contactor Assemblies

SIRIUS 3RA13 reversing contactor assemblies

Overview

The 3RA13 reversing contactor assemblies can be ordered as follows:

Sizes S00 to S3

- Fully wired and tested, with mechanical and electrical interlock
- As individual parts for customer assembly

Sizes S6 to S12

- Only as individual parts for customer assembly

There is also a range of accessories (auxiliary switch blocks, surge suppressors, etc.) that must be ordered separately.

Overload relays for motor protection [see Chapter 7 "Protection Equipment" → "Overload Relays"](#).

The 3RA13 contactor assemblies have screw terminals. Sizes S00 to S3 are suitable for screw and snap-on mounting onto TH 35 standard mounting rails.

For assemblies with AC operation and 50/60 Hz, a dead interval of 50 ms must be provided when used with voltages ≥ 500 V; a dead interval of 30 ms is recommended for use with voltages ≥ 400 V. These dead times do not apply to assemblies with DC operation.

The operating times of the individual contactors are not affected by the mechanical locking device

Complete units

The fully wired reversing contactor assemblies are suitable for use in any climate. They are finger-safe according to EN 50274.

The contactor assemblies consist of 2 contactors with the same power, with one NC contact in the basic unit. The contactors are mechanically and electrically interlocked (NC contact interlock).

For motor protection, either 3RU11 or 3RB2. overload relays for direct mounting or stand-alone installation or thermistor motor protection tripping units must be ordered separately.

Components for customer assembly

Assembly kits for all sizes are available for customer assembly of reversing contactor assemblies.

Contactors, overload relays, the mechanical interlock (as of size S2) and – for momentary-contact operation – auxiliary switch blocks for latching must be ordered separately.

See also the configuration manual "SIRIUS Configuration":

<http://support.automation.siemens.com/WW/view/en/40625241>

Rated data AC-2 and AC-3 for 50 Hz 400 V AC		Size	Article No.				Assembly kit	Fully wired and tested contactor assemblies
Rating kW	Operational current I_e A		Contactor	Mechanical locking device ¹⁾	Mechanical locking device ²⁾	Mechanical locking device ³⁾		
3	7	S00	3RT1015	-- ⁴⁾	--	--	3RA1913-2A ⁵⁾	3RA1315-8XB30-1 ..
4	9		3RT1016					3RA1316-8XB30-1 ..
5.5	12		3RT1017					3RA1317-8XB30-1 ..
5.5	12	S0	3RT1024	3RA1924-1A	3RA1924-2B	--	3RA1923-2A ⁶⁾	3RA1324-8XB30-1 ..
7.5	17		3RT1025					3RA1325-8XB30-1 ..
11	25		3RT1026					3RA1326-8XB30-1 ..
15	32	S2	3RT1034	3RA1924-1A	3RA1924-2B	--	3RA1933-2A ⁷⁾	3RA1334-8XB30-1 ...
18.5	40		3RT1035					3RA1335-8XB30-1 ...
22	50		3RT1036					3RA1336-8XB30-1 ...
30	65	S3	3RT1044	3RA1924-1A	3RA1924-2B	--	3RA1943-2A ⁷⁾	3RA1344-8XB30-1 ...
37	80		3RT1045					3RA1345-8XB30-1 ...
45	95		3RT1046					3RA1346-8XB30-1 ...
55	115	S6	3RT1054	--	--	3RA1954-2A	3RA1953-2M ⁸⁾	--
75	150		3RT1055					
90	185		3RT1056					
110	225	S10	3RT1064	--	--	3RA1954-2A	3RA1963-2A ⁸⁾	--
132	265		3RT1065					
160	300		3RT1066					
200	400	S12	3RT1075	--	--	3RA1954-2A	3RA1973-2A ⁸⁾	--
250	500		3RT1076					

¹⁾ Can be mounted onto the front.

²⁾ Laterally mountable with one auxiliary contact.

³⁾ Laterally mountable without auxiliary contact.

⁴⁾ Interlock can only be ordered with assembly kit.

⁵⁾ Assembly kit contains: mechanical interlock; connecting clips for 2 contactors; wiring modules on the top and bottom.

⁶⁾ Assembly kit contains: wiring modules on the top and bottom.

⁷⁾ Assembly kit contains: 2 connecting clips for contactors; wiring modules on the top and bottom.




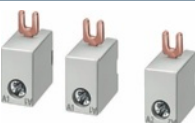
⁸⁾ Assembly kit contains: wiring module on the top and bottom.

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Components for customer assembly

	For contactors	Size	Version		Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Type									
Mechanical interlocks									
	3RT102	S0 S2 S3	Laterally mountable¹⁾ Each with one auxiliary contact (1 NC contact) per contactor (can only be used to connect contactors which are not more than 1 size larger or smaller). The mounting depth of the smaller contactor has to be adapted.)	▶	3RA1924-2B		1	1 unit	41B
	3RT103								
	3RT104								
	3RT132								
	3RT134								
3RT144									
3RT152									
3RT153									
3RA1924-1A mounted onto 2 contactors	3RT102	S0 S2 S3	Can be mounted onto the front²⁾ Onto contactor sizes S2 and S3 (for contactors of the same size) Note: Size S0: Wiring modules must be mounted first. Sizes S2 and S3: Use 3RA1932-2C mechanical connector.	▶	3RA1924-1A		1	1 unit	41B
	3RT103								
	3RT104								
	3RT132								
	3RT152								
	3RT1.5	S6 S10 S12	Laterally mountable, without auxiliary contacts Contactor sizes S6, S10 and S12 can be interlocked with each other as required; no adaptation of mounting depth is necessary. Contactor clearance 10 mm.	▶	3RA1954-2A		1	1 unit	41B
	3RT1.6								
	3RT1.7								
3RA1954-2A									
	3RT104.-A with 3RT105	S3 with S6	Adapter, laterally mountable, for mechanical interlocking of contactor S3 (only for AC operation) with contactor S6 using 3RA1954-2A locking device (must be ordered separately) incl. connecting clips	A	3RA1954-2C		1	1 unit	41B
Coil repeat terminals									
	3RT103	S2, S3	For the coil terminals A1 and A2 for reversing starters (contactor sizes S2 and S3). 2 x A1 and 1 x A2 required per assembly (one set contains 10 x A1 and 5 x A2)	B	3RA1923-3B		1	1 unit	41B
	3RT104								
3RA1923-3B									
Base plates									
	3RT105	S6 S10 S12	For customer assembly of reversing contactor assemblies	B	3RA1952-2A		1	1 unit	41B
	3RT1.6			B	3RA1962-2A		1	1 unit	41B
	3RT1.7			B	3RA1972-2A		1	1 unit	41B

¹⁾ Can also be used for 4-pole contactors with sizes S2 and S3.

²⁾ Can also be used for size S0 4-pole contactors.