

3RA13, 3RA14 Contactor Assemblies

3RA13 Reversing Contactor Assemblies

3RA13 complete units, 3 ... 45 kW

Overview

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

- **Size S00 to S3**
Fully wired and tested, with mechanical and electrical interlock. 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.
- **Size S00 to S12**
As individual parts for customer assembly.

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

For overload relays for motor protection, see "Protection Equipment" → "Overload Relays".

The 3RA13 contactor assemblies have screw terminals and are suitable for screw and snap-on mounting onto 35 mm standard mounting rails.

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 S0) and – for momentary-contact operation – auxiliary switch blocks for latching must be ordered separately.

Rated data AC-2 and AC-3 for AC 50 Hz 400 V		Size	Order No.					Fully wired and tested contactor assemblies
Rating kW	Operational current I_e A		Contactor	Mechanical interlock ¹⁾	Mechanical interlock ²⁾	Mechanical interlock ³⁾	Assembly kit	
3	7	S00	3RT10 15	-- ⁴⁾	--	--	3RA19 13-2A ⁵⁾	3RA13 15-8XB30-1 ..
4	9		3RT10 16					3RA13 16-8XB30-1 ..
5.5	12		3RT10 17					3RA13 17-8XB30-1 ..
5.5	12	S0	3RT10 24	3RA19 24-1A	3RA19 24-2B	--	3RA19 23-2A ⁶⁾	3RA13 24-8XB30-1 ..
7.5	17		3RT10 25					3RA13 25-8XB30-1 ..
11	25		3RT10 26					3RA13 26-8XB30-1 ..
15	32	S2	3RT10 34	3RA19 24-1A	3RA19 24-2B	--	3RA19 33-2A ⁷⁾	3RA13 34-8XB30-1 ..
18.5	40		3RT10 35					3RA13 35-8XB30-1 ..
22	50		3RT10 36					3RA13 36-8XB30-1 ..
30	65	S3	3RT10 44	3RA19 24-1A	3RA19 24-2B	--	3RA19 43-2A ⁷⁾	3RA13 44-8XB30-1 ..
37	80		3RT10 45					3RA13 45-8XB30-1 ..
45	95		3RT10 46					3RA13 46-8XB30-1 ..
55	115	S6	3RT10 54	--	--	3RA19 54-2A	3RA19 53-2M ⁸⁾	--
75	150		3RT10 55					
90	185		3RT10 56					
110	225	S10	3RT10 64	--	--	3RA19 54-2A	3RA19 63-2A ⁸⁾	--
132	265		3RT10 65					
160	300		3RT10 66					
200	400	S12	3RT10 75	--	--	3RA19 54-2A	3RA19 73-2A ⁸⁾	--
250	500		3RT10 76					

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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3RA13 complete units, 3 ... 45 kW

Selection and ordering data

Fully wired and tested contactor assemblies²⁾ · Size S00 · up to 5.5 kW

Rated data AC-2 and AC-3						DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Operational current I_e up to	Ratings of induction motors at 50 Hz and											
400 V	230 V	400 V	500 V	690 V								
A	kW	kW	kW	kW	V							kg
AC operation, 50/60 Hz												
	7	2.2	3	3.5	4	AC 24	A	3RA13 15-8XB30-1AB0	1	1 unit	101	0.430
						AC 110	A	3RA13 15-8XB30-1AF0	1	1 unit	101	0.430
						AC 230	▶	3RA13 15-8XB30-1AP0	1	1 unit	101	0.430
	9	3	4	4.5	5.5	AC 24	A	3RA13 16-8XB30-1AB0	1	1 unit	101	0.430
						AC 110	A	3RA13 16-8XB30-1AF0	1	1 unit	101	0.430
						AC 230	▶	3RA13 16-8XB30-1AP0	1	1 unit	101	0.430
	12	3	5.5	5.5	5.5	AC 24	A	3RA13 17-8XB30-1AB0	1	1 unit	101	0.430
						AC 110	A	3RA13 17-8XB30-1AF0	1	1 unit	101	0.430
						AC 230	▶	3RA13 17-8XB30-1AP0	1	1 unit	101	0.430
DC operation												
	7	2.2	3	3.5	4	DC 24	▶	3RA13 15-8XB30-1BB4	1	1 unit	101	0.550
	9	3	4	4.5	5.5	DC 24	▶	3RA13 16-8XB30-1BB4	1	1 unit	101	0.550

¹⁾ Coil operating range
at 50 Hz: 0.8 ... 1.1 x U_N ;
at 60 Hz: 0.85 ... 1.1 x U_N .

²⁾ The contactors integrated in the contactor assemblies have no unassigned auxiliary contacts.

Mountable accessories (to be ordered separately):

The fully wired and tested contactor assembly includes the following components:

Accessories	Order No.	Page	Individual parts	Order No. K1	K2	Page
13 Solder pin adapters	3RT19 16-4KA1	3/111	1 2 Contactor, 3 kW	3RT10 15	3RT10 15	3/15
14 Auxiliary switch block, front (auxiliary switch block according to EN 50005 must be used)	3RH19 11-1....	3/102	1 2 Contactor, 4 kW	3RT10 16	3RT10 16	3/15
			1 2 Contactor, 5.5 kW	3RT10 17	3RT10 17	3/15
16 Surge suppressors	3RT19 16-1....	3/108, 3/109	4 5 6 Assembly kit	3RA19 13-2A		3/38
The assembly kit contains:						
4 Mechanical interlock						
5 2 connecting clips for 2 contactors						
6 Wiring modules on the top and bottom for connecting the main current paths, electrical interlock included ¹⁾ , interruptible (NC contact interlock)						

¹⁾ 3RT10 1. contactors with one NC contact in the basic unit are required for the electrical interlock.

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3RA13 Reversing Contactor Assemblies

3RA13 complete units, 3 ... 45 kW

Fully wired and tested contactor assemblies · Size S0 · up to 11 kW

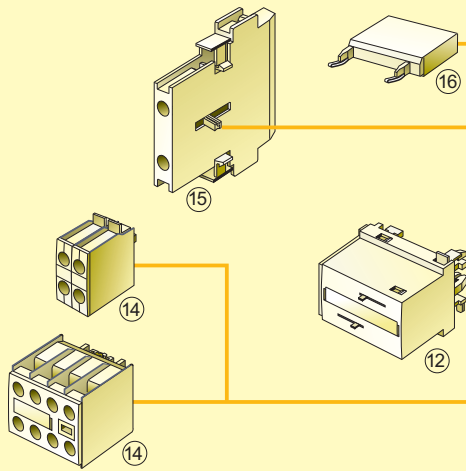


3RA13 2.-8XB30-1...

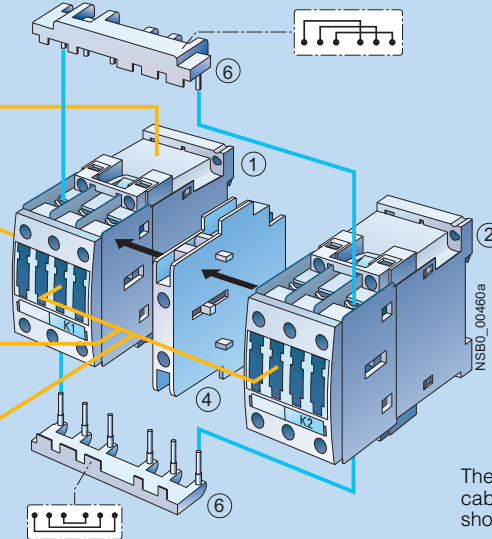
Rated data AC-2 and AC-3					Rated control supply voltage (U_s ¹⁾	DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
Operational current I_e up to	Ratings of induction motors at 50 Hz and up to						Order No.						Price per PU
	400 V A	230 V kW	400 V kW	500 V kW			690 V kW						V
AC operation, 50/60 Hz							kg						
12	3	5.5	7.5	7.5	AC 24	A	3RA13 24-8XB30-1AC2	1	1 unit	101	0.770		
					AC 110	A	3RA13 24-8XB30-1AG2	1	1 unit	101	0.770		
					AC 230	▶	3RA13 24-8XB30-1AL2	1	1 unit	101	0.770		
17	4	7.5	10	11	AC 24	A	3RA13 25-8XB30-1AC2	1	1 unit	101	0.770		
					AC 110	A	3RA13 25-8XB30-1AG2	1	1 unit	101	0.770		
					AC 230	▶	3RA13 25-8XB30-1AL2	1	1 unit	101	0.770		
25	5.5	11	11	11	AC 24	A	3RA13 26-8XB30-1AC2	1	1 unit	101	0.770		
					AC 110	A	3RA13 26-8XB30-1AG2	1	1 unit	101	0.770		
					AC 230	A	3RA13 26-8XB30-1AL2	1	1 unit	101	0.770		
DC operation													
12	3	5.5	7.5	7.5	DC 24	▶	3RA13 24-8XB30-1BB4	1	1 unit	101	1.230		
17	4	7.5	10	11	DC 24	A	3RA13 25-8XB30-1BB4	1	1 unit	101	1.230		
25	5.5	11	11	11	DC 24	A	3RA13 26-8XB30-1BB4	1	1 unit	101	1.230		

¹⁾ Coil operating range at 50 Hz: 0.8 ... 1.1 × U_s ; at 60 Hz: 0.85 ... 1.1 × U_s .

Mountable accessories (to be ordered separately):



The fully wired and tested contactor assembly includes the following components:



Accessories			Individual parts			Order No.		Page
		Order No.				K1	K2	
12	Mechanical interlock, front	3RA19 24-1A	3/37	1 2	Contactor, 5.5 kW	3RT10 24	3RT10 24	3/16
14	Auxiliary switch block, front	3RH19 21-1CA..	3/103	1 2	Contactor, 7.5 kW	3RT10 25	3RT10 25	3/16
15	Auxiliary switch block, lateral	3RH19 21-1EA..	3/104	1 2	Contactor, 11 kW	3RT10 26	3RT10 26	3/16
16	Surge suppressor	3RT19 26-1....	3/108	4	Mechanical interlock, lateral	3RA19 24-2B		3/37
				6	Assembly kit	3RA19 23-2A		3/38
The assembly kit contains wiring modules on the top and bottom (they also form the mechanical connection between the contactors).								


* You can order this quantity or a multiple thereof.


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3RA13 complete units, 3 ... 45 kW

Fully wired and tested contactor assemblies · Size S2 · up to 22 kW



Rated data AC-2 and AC-3					Rated control supply voltage U_s ¹⁾	DT	Screw terminals 	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Operational current I_e up to	Ratings of induction motors at 50 Hz and										
500 V	230 V	400 V	500 V	690 V							
A	kW	kW	kW	kW	V		Order No.	Price per PU			kg
AC operation, 50/60 Hz											
32	7.5	15	18.5	18.5	AC 24	A	3RA13 34-8XB30-1AC2	1	1 unit	101	2.300
					AC 110	A	3RA13 34-8XB30-1AG2	1	1 unit	101	2.300
					AC 230	A	3RA13 34-8XB30-1AL2	1	1 unit	101	2.300
40	11	18.5	22	22	AC 24	A	3RA13 35-8XB30-1AC2	1	1 unit	101	2.300
					AC 110	A	3RA13 35-8XB30-1AG2	1	1 unit	101	2.300
					AC 230	A	3RA13 35-8XB30-1AL2	1	1 unit	101	2.300
50	15	22	30	22	AC 24	B	3RA13 36-8XB30-1AC2	1	1 unit	101	2.300
					AC 110	B	3RA13 36-8XB30-1AG2	1	1 unit	101	2.300
					AC 230	A	3RA13 36-8XB30-1AL2	1	1 unit	101	2.300
DC operation											
32	7.5	15	18.5	18.5	DC 24	A	3RA13 34-8XB30-1BB4	1	1 unit	101	3.450
40	11	18.5	22	22	DC 24	A	3RA13 35-8XB30-1BB4	1	1 unit	101	3.450
50	15	22	30	22	DC 24	A	3RA13 36-8XB30-1BB4	1	1 unit	101	3.450

3RA13 3...8XB30-1...

¹⁾ Coil operating range
at 50 Hz: 0.8 ... 1.1 x U_s ; at 60 Hz: 0.85 ... 1.1 x U_s .

Mountable accessories (to be ordered separately):

The fully wired and tested contactor assembly includes the following components:

The connecting cables are not shown.

Accessories	Order No.	Page	Individual parts	Order No.		Page
				K1	K2	
12 Mechanical interlock, front	3RA19 24-1A	3/37	1 2 Contactor, 15 kW	3RT10 34	3RT10 34	3/17
14 Auxiliary switch block, front	3RH19 21-1CA...	3/103	1 2 Contactor, 18.5 kW	3RT10 35	3RT10 35	3/17
15 Auxiliary switch block, lateral	3RH19 21-1EA...	3/104	1 2 Contactor, 22 kW	3RT10 36	3RT10 36	3/17
16 Surge suppressor	3RT19 26-1... 3RT19 36-1...	3/108	4 Mechanical interlock, lateral	3RA19 24-2B		3/37
			5 6 Assembly kit	3RA19 33-2A		3/38

The assembly kit contains:

- 5 2 connecting clips for 2 contactors with 10 mm distance
- 6 Wiring modules on the top and bottom for connecting the main current paths

3RA13, 3RA14 Contactor Assemblies


3RA13 Reversing Contactor Assemblies

3RA13 complete units, 3 ... 45 kW

Fully wired and tested contactor assemblies · Size S3 · up to 45 kW

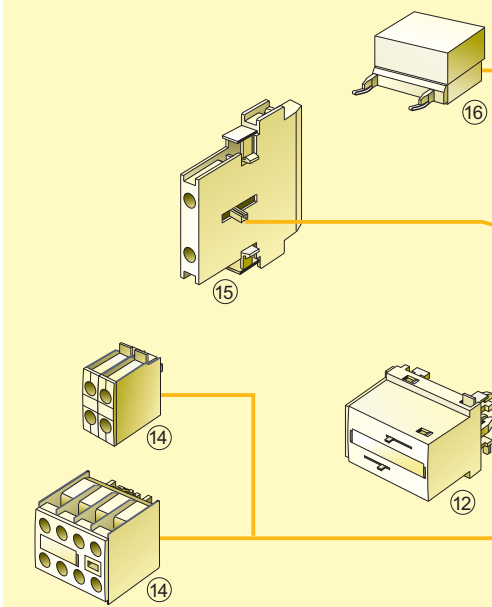


3RA13 4...8XB30-1...

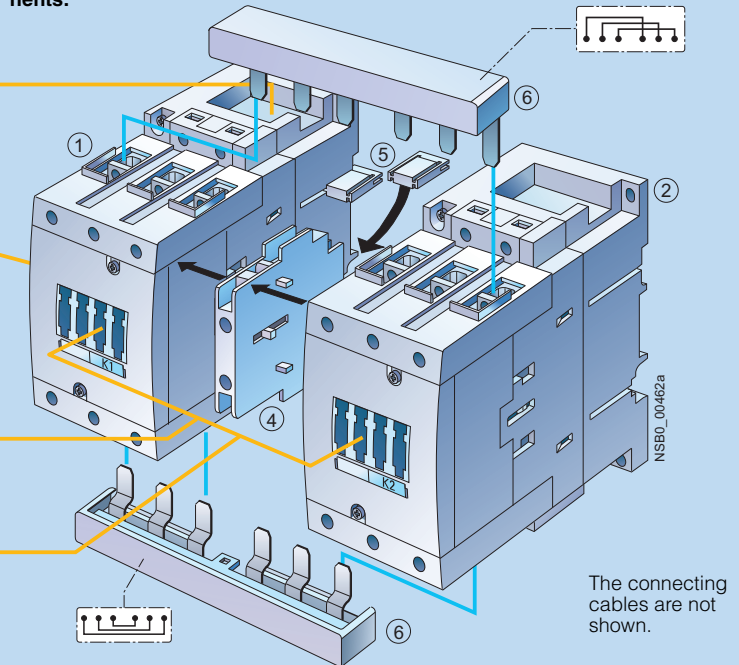
Rated data AC-2 and AC-3						DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Operational current I_e up to	Ratings of induction motors at 50 Hz and											
	500 V	230 V	400 V	500 V	690 V							
A	kW	kW	kW	kW	V		Order No.	Price per PU				kg
AC operation at 50/60 Hz												
65	18.5	30	37	45	AC 24	B	3RA13 44-8XB30-1AC2		1	1 unit	101	4.500
					AC 110	B	3RA13 44-8XB30-1AG2		1	1 unit	101	4.500
					AC 230	B	3RA13 44-8XB30-1AL2		1	1 unit	101	4.500
80	22	37	45	55	AC 24	B	3RA13 45-8XB30-1AC2		1	1 unit	101	4.500
					AC 110	B	3RA13 45-8XB30-1AG2		1	1 unit	101	4.500
					AC 230	B	3RA13 45-8XB30-1AL2		1	1 unit	101	4.500
95	22	45	55	55	AC 24	B	3RA13 46-8XB30-1AC2		1	1 unit	101	4.500
					AC 110	B	3RA13 46-8XB30-1AG2		1	1 unit	101	4.500
					AC 230	B	3RA13 46-8XB30-1AL2		1	1 unit	101	4.500
DC operation												
65	18.5	30	37	45	DC 24	B	3RA13 44-8XB30-1BB4		1	1 unit	101	6.500
80	22	37	45	55	DC 24	B	3RA13 45-8XB30-1BB4		1	1 unit	101	6.500
95	22	45	55	55	DC 24	B	3RA13 46-8XB30-1BB4		1	1 unit	101	6.500

¹⁾ Coil operating range
at 50 Hz: 0.8 ... 1.1 x U_N ; at 60 Hz: 0.85 ... 1.1 x U_N .

Mountable accessories (to be ordered separately):



The fully wired and tested contactor assembly includes the following components:



Accessories	Order No.	Page	Individual parts	Order No. K1	K2	Page
12 Mechanical interlock, front	3RA19 24-1A	3/37	1 2 Contactor, 30 kW	3RT10 44	3RT10 44	3/18
14 Auxiliary switch block, front	3RH19 21-1CA...	3/103	1 2 Contactor, 37 kW	3RT10 45	3RT10 45	3/18
15 Auxiliary switch block, lateral	3RH19 21-1EA...	3/104	1 2 Contactor, 45 kW	3RT10 46	3RT10 46	3/18
16 Surge suppressor	3RT19 26-1.... 3RT19 36-1....	3/108	4 Mechanical interlock, lateral	3RA19 24-2B		3/37
			5 6 Assembly kit	3RA19 43-2A		3/38

The assembly kit contains:




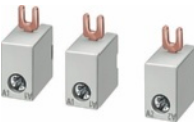

- 5 2 connecting clips for 2 contactors with 10 mm distance
- 6 Wiring modules on the top and bottom for connecting the main current paths

3RA13, 3RA14 Contactor Assemblies

3RA13 Reversing Contactor Assemblies

Components for customer assembly

Selection and ordering data

	For contactors	Size	Version		Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Type									kg
Mechanical interlocks										
	3RT10 2	S0	For lateral mounting¹⁾ 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.)	▶	3RA19 24-2B		1	1 unit	101	0.060
	3RT10 3	S2								
	3RT10 4	S3								
	3RT13 2									
	3RT13 3									
	3RT13 4									
	3RT14 4									
3RA19 24-1A mounted onto 2 contactors	3RT10 2	S0	For mounting to the front²⁾ Onto contactors with sizes S0 to S3 (for contactors of the same size) <i>Note:</i> <i>Size S0:</i> <i>Wiring modules must be mounted first.</i> <i>Sizes S2 and S3:</i> <i>Use 3RA19 32-2C mechanical connectors.</i>	▶	3RA19 24-1A		1	1 unit	101	0.050
	3RT10 3	S2								
	3RT10 4	S3								
	3RT13 2	S0								
	3RT15 2									
	3RT1. 5 to 3RT1. 7	S6 S10 S12	For lateral mounting, without auxiliary contacts; size S6, S10 and S12 contactors can be interlocked with each other as required; no adaptation of mounting depth is necessary. Contactor clearance 10 mm.	▶	3RA19 54-2A		1	1 unit	101	0.050
	3RT10 4..A with 3RT10 5	S3 with S6	Adapters, laterally mountable; for mechanical interlocking of contactor S3 (only for AC operation) with contactor S6 using 3RA19 54-2A locking device (must be ordered separately) incl. connecting clips	A	3RA19 54-2C		1	1 unit	101	0.050
Coil repeat terminals										
	3RT10 3	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	3RA19 23-3B		1	1 unit	101	0.080
	3RT10 4			B						
Base plates										
	3RT10 5	S6	For customer assembly of reversing contactor assemblies	B	3RA19 52-2A		1	1 unit	101	1.300
	3RT1. 6	S10		B	3RA19 62-2A		1	1 unit	101	2.100
	3RT1. 7	S12		B	3RA19 72-2A		1	1 unit	101	2.300

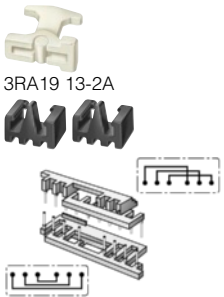
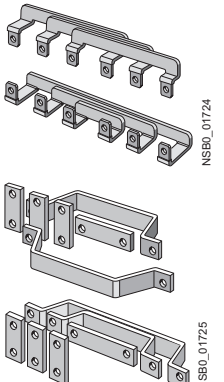
¹⁾ Can also be used for 4-pole contactors with sizes S2 and S3.

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

3RA13, 3RA14 Contactor Assemblies

3RA13 Reversing Contactor Assemblies

Components for customer assembly

For contactors	Size	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Type									
Assembly kits for making 3-pole contactor assemblies									
 <p>3RA19 13-2A</p>	3RT10 1	S00	The assembly kit contains: mechanical interlock; 2 connecting clips for 2 contactors; wiring modules on the top and bottom	▶	3RA19 13-2A	1	1 unit	101	0.040
	3RT10 2	S0	The assembly kit contains: wiring modules on the top and bottom	▶	3RA19 23-2A	1	1 unit	101	0.060
	3RT10 3	S2	The assembly kit contains: 2 connecting clips for 2 contactors; wiring modules on the top and bottom	▶	3RA19 33-2A	1	1 unit	101	0.120
	3RT10 4	S3	The assembly kit contains: 2 connecting clips for 2 contactors; wiring modules on the top and bottom	▶	3RA19 43-2A	1	1 unit	101	0.300
	3RT10 5	S6	The assembly kit contains: Wiring modules on the top and bottom (for connection with box terminal)	A	3RA19 53-2A	1	1 unit	101	1.300
 <p>NSBD_01724 NSBD_01725</p>	3RT10 5	S6	The assembly kit contains: Wiring modules on the top and bottom (for connection without box terminal)	A	3RA19 53-2M	1	1 unit	101	0.900
	3RT1. 6	S10		A	3RA19 63-2A	1	1 unit	101	2.400
	3RT1. 7	S12		A	3RA19 73-2A	1	1 unit	101	3.000

* You can order this quantity or a multiple thereof.

3RA13, 3RA14 Contactor Assemblies

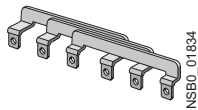
3RA13 Reversing Contactor Assemblies

Components for customer assembly

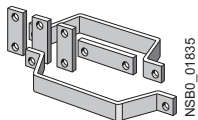
For contactors	Size	Contact-clearance	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		mm								kg

Wiring modules, single

3RT10 1	S00-S00	0	Top (in-phase) Bottom (with phase reversal)	▶	3RA19 13-3D 3RA19 13-3E		1 5 units 1 5 units	101 101	0.015 0.015
3RT10 2	S0-S0 and S0-S0	0 and 10	Top (in-phase) Bottom (with phase reversal)	▶	3RA19 23-3D 3RA19 23-3E		1 5 units 1 5 units	101 101	0.020 0.020
3RT10 3	S2-S2	10	Top (in-phase) Bottom (with phase reversal)	▶	3RA19 33-3D 3RA19 33-3E		1 1 unit 1 1 unit	101 101	0.065 0.065
3RT10 4	S3-S3	10	Top (in-phase) Bottom (with phase reversal)	▶	3RA19 43-3D 3RA19 43-3E		1 1 unit 1 1 unit	101 101	0.160 0.160
3RT10 5	S6-S6	10	Top (in-phase, for connection with box terminal)	A	3RA19 53-3D		1 1 unit	101	0.620
			Top (with phase reversal, for connection with-out box terminal)	A	3RA19 53-3P		1 1 unit	101	0.440



3RA19 53-3D



3RA19 53-3P

For contactors	Size	Contact-clearance	Inter-locking	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		mm									kg

Mechanical connectors

3RT1. 1 ¹⁾	S00-S00	0	Lateral	For 3- and 4-pole contactors	▶	3RA19 12-2H		1 10 units	101	0.010
3RT1. 2	S0-S0	0 10 ²⁾	On front Lateral	For 3- and 4-pole contactors	A ▶	3RA19 22-2C 3RT19 22-2D		1 10 units 100 20 units	101 101	0.025 11.000
3RT1. 3 3RT1. 4	S2-S2 S3-S3	0	On front	For 3-pole contactors	▶	3RA19 32-2C		1 10 units	101	0.010
3RT1. 3 3RT1. 4 3RT1. 5	S2-S2 S3-S3 S6-S6	10	Lateral	For 3-pole contactors	▶	3RA19 32-2D		1 10 units	101	0.010
3RT1. 3	S2-S2	10	Lateral	For 4-pole contactors	A	3RA19 32-2G		1 10 units	101	0.010
3RT1. 4	S3-S3	10	Lateral	For 4-pole contactors	B	3RA19 42-2G		1 10 units	101	0.010



3RA19 12-2H



3RA19 22-2C



3RA19 32-2C



3RA19 32-2D



3RA19 32-2G



3RA19 42-2G

¹⁾ This pack contains 10 additional interlocks.

²⁾ The connector function can be fulfilled with the wiring modules for size S0, a contactor clearance of 10 mm and a lateral interlock.

3RA13, 3RA14 Contactor Assemblies

3RA14 Contactor Assemblies for Wye-Delta Starting

3RA14 complete units, 3 ... 75 kW

Overview

These 3RA14 contactor assemblies for wye-delta starting are designed for standard applications.

Note:

Contactor assemblies for wye-delta starting in special applications such as very heavy starting¹⁾ or wye-delta starting of special motors must be customized. Help with designing such special applications is available from Technical Assistance.

The 3RA14 contactor assemblies for wye-delta starting can be ordered as follows:

- **Sizes S00 to S3:**
Fully wired and tested, with electrical interlock, dead interval of up to 10 s on reversing (size S00 with electrical and mechanical interlocks).
- **Sizes S00 to S12:**
As individual parts for customer assembly.

A dead interval of 50 ms on reversing is already integrated in the time relay function.

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

For overload relays for motor protection see "Protection Equipment" → "Overload Relays" → "3RB2 Solid-State Overload Relays".

The 3RA14 contactor assemblies have screw terminals and are suitable for screw and snap-on mounting onto 35 mm standard mounting rails.

Fully wired and tested 3RA14 contactor assemblies have one unassigned NO contact which is mounted onto the front of the K3 delta contactor.

A solid-state time-delay auxiliary switch block is snapped onto the front of the complete contactor assemblies, size S00 up to 7.5 kW, while a timing relay is mounted onto the side of sizes S0 to S3, 11 kW to 75 kW.

Rated data at AC 50 Hz 400 V			Size			Order No. complete	Accessories for customer assembly	
Rating kW	Operational current I_e A	Motor current A		Line/delta contactor	Star contactor		Timing relays	Assembly kit A, for double infeed
5.5	12	9.5 ... 13.8	S00-S00-S00	3RT10 15	3RT10 15	3RA14 15-8XB31-1...	3RT19 16-2G.51	--
7.5	17	12.1 ... 17		3RT10 17		3RA14 16-8XB31-1...	3RP15 74-1N.30	
11	25	19 ... 25	S0-S0-S0	3RT10 24	3RT10 24	3RA14 23-8XC21-1...	3RP15 74-1N.30	--
15	32	24.1 ... 34		3RT10 26		3RA14 25-8XC21-1...		
18.5	40	34.5 ... 40						
22	50	31 ... 43	S2-S2-S0	3RT10 34	3RT10 26	3RA14 34-8XC21-1...	3RP15 74-1N.30	3RA19 33-2C ³⁾
30	50	48.3 ... 65		3RT10 34		--		
37	80	62.1 ... 77.8	S2-S2-S2		3RT10 34	3RA14 35-8XC21-1...		3RA19 33-2B ³⁾
45	86	69 ... 86		3RT10 36		3RA14 36-8XC21-1...		
55	115	77.6 ... 108.6	S3-S3-S2	3RT10 44	3RT10 35	3RA14 44-8XC21-1...	3RP15 74-1N.30	3RA19 43-2C ³⁾
75	150	120.7 ... 150		3RT10 45	3RT10 36	3RA14 45-8XC21-1...		
90	160	86 ... 160	S6-S6-S3	3RT10 54	3RT10 44	--	3RP15 74-1N.30	--
110	195	86 ... 195						
132	230	86 ... 230		3RT10 55	3RT10 45			
160	280	86 ... 280		3RT10 56	3RT10 46			
200	350	95 ... 350	S10-S10-S6	3RT10 64	3RT10 54	--	3RP15 74-1N.30	--
250	430	95 ... 430		3RT10 65	3RT10 55			
315	540	277 ... 540	S12-S12-S10	3RT10 75	3RT10 64	--	3RP15 74-1N.30	--
355	610	277 ... 610						
400	690	277 ... 690			3RT10 65			
500	850	277 ... 850		3RT10 76	3RT10 66			

¹⁾ For effective support from Technical Assistance you must provide the following details:

- Rated motor voltage
- Rated motor current
- Service factor, operating values
- Motor starting current factor
- Starting time
- Ambient temperature

Footnotes for page 3/41:

- ¹⁾ Assembly kit contains mechanical interlock, 3 connecting clips; wiring modules on the top (connection between line and delta contactor) and on the bottom (connection between delta and star contactor); star jumper.
- ²⁾ Assembly kit contains 5 connecting clips; wiring modules on the top (connection between line and delta contactor) and on the bottom (connection between delta and star contactor); star jumper.
- ³⁾ Assembly kit contains wiring module on the bottom (connection between delta and star contactor) and star jumper.
- ⁴⁾ Wiring module on top from reversing contactor assembly (note conductor cross-sections).

3RA13, 3RA14 Contactor Assemblies

3RA14 Contactor Assemblies for Wye-Delta Starting

3RA14 complete units, 3 ... 75 kW

Components for customer assembly

Assembly kits with wiring modules and, if necessary, mechanical connectors are available for contactor assemblies for wye-delta starting. Contactors, overload relays, wye-delta timing relays, auxiliary switches for electrical interlock – if required also feeder terminals, mechanical interlocks (exception: In the case of the assembly kit for size S00 contactor assemblies the mechanical interlock between the delta contactor and the star contactor is included in the kit) and base plates – must be ordered separately.

The wiring kits for sizes S00 and S0 contain the top and bottom main conducting path connections between the line and delta contactors (top) and between the delta and star contactors (bottom).

In the case of sizes S2 to S12 only the bottom main conducting path connection between the delta and star contactors is included in the wiring module, owing to the larger conductor cross-section at the infeed.

Motor protection

Overload relays or thermistor motor protection tripping units can be used for overload protection.

The overload relay can be either mounted onto the line contactor or separately fitted. It must be set to 0.58 times the rated motor current.

Note:

The selection of contactor types refers to fused configurations (see note on Technical Information on page 3/1).

	Assembly kit B, for single infeed	Star jumper	Base plates	Overload relay, thermal (trip class CLASS 10)		Overload relay, solid-state (CLASS 10 trip class)	
				Setting range	Order No.	Setting range	Order No.
	3RA19 13-2B ¹⁾	3RT19 16-4BA31	--	5.5 ... 8	3RU11 16-1HB0	3 ... 12	3RB20 16-1SB0
				7 ... 10	3RU11 16-1JB0		
	3RA19 23-2B ²⁾	3RT19 26-4BA31	--	11 ... 16	3RU11 26-4AB0	6 ... 25	3RB20 26-1QB0
				14 ... 20	3RU11 26-4BB0		
				20 ... 25	3RU11 26-4DB0		
	3RV19 35-1A	3RT19 26-4BA31	3RA19 32-2E	18 ... 25	3RU11 36-4DB0	12.5 ... 50	3RB20 36-1UB0
				28 ... 40	3RU11 36-4FB0		
		3RT19 36-4BA31	3RA19 32-2F	36 ... 45	3RU11 36-4GB0		
				40 ... 50	3RU11 36-4HB0		
	--	3RT19 36-4BA31	3RA19 42-2E	45 ... 63	3RU11 46-4JB0	25 ... 100	3RB20 46-1EB0
				70 ... 90	3RU11 46-4LB0		
	3RA19 53-3D ⁴⁾	3RT19 46-4BA31	3RA19 52-2E	--	--	50 ... 200	3RB20 56-1FC2
	--	3RT19 56-4BA31	3RA19 62-2E	--	--	55 ... 250	3RB20 66-1GC2
	--	3RT19 66-4BA31	3RA19 72-2E	--	--	160 ... 630	3RB20 66-1MC2

3RA13, 3RA14 Contactor Assemblies

3RA14 Contactor Assemblies for Wye-Delta Starting


3RA14 complete units, 3 ... 75 kW

Selection and ordering data

Fully wired and tested contactor assemblies · Size S00-S00-S00 · up to 7.5 kW

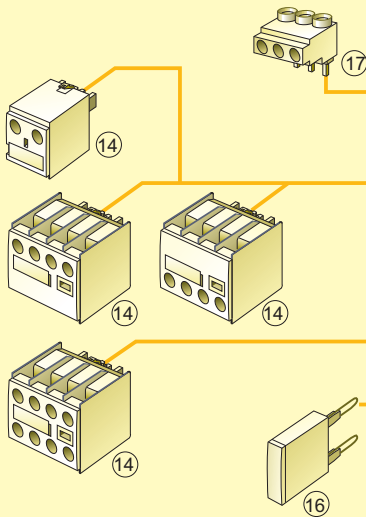


3RA14 1.-8XB31-1...

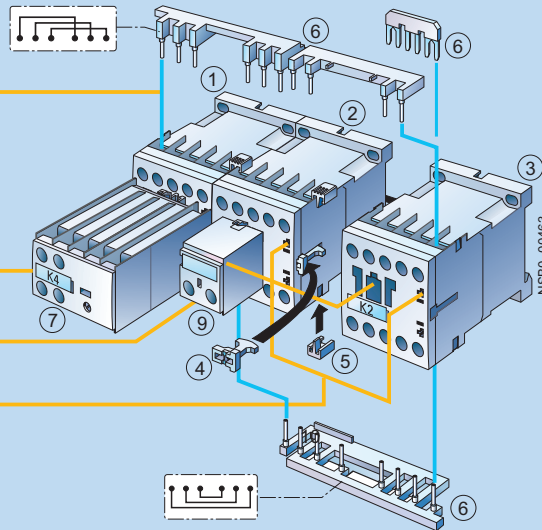
Rated data AC-3						Rated control supply voltage U_s ¹⁾	DT	Screw terminals 	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Operational current I_e up to	Ratings of induction motors at 50 Hz and											
400 V	230 V	400 V	500 V	690 V								
A	kW	kW	kW	kW	V							
AC operation, 50/60 Hz							kg					
12	3.3	5.5	7.2	9.2	AC 24	C	3RA14 15-8XB31-1AB0	1	1 unit	101	0.950	
					AC 110	C	3RA14 15-8XB31-1AF0	1	1 unit	101	0.950	
					AC 230	▶	3RA14 15-8XB31-1AP0	1	1 unit	101	0.950	
17	4.7	7.5	10.3	9.2	AC 24	B	3RA14 16-8XB31-1AB0	1	1 unit	101	0.990	
					AC 110	B	3RA14 16-8XB31-1AF0	1	1 unit	101	0.990	
					AC 230	▶	3RA14 16-8XB31-1AP0	1	1 unit	101	0.990	
DC operation												
12	3.3	5.5	7.2	9.2	DC 24	B	3RA14 15-8XB31-1BB4	1	1 unit	101	1.120	
17	4.7	7.5	10.3	9.2	DC 24	▶	3RA14 16-8XB31-1BB4	1	1 unit	101	1.120	

¹⁾ Coil operating range at 50 Hz: 0.8 ... 1.1 x U_s ; at 60 Hz: 0.85 ... 1.1 x U_s .

Mountable accessories (to be ordered separately):



The fully wired and tested contactor assembly includes the following components:



The connecting cables are not shown.

Accessories	Order No.	Page	Individual parts	Order No.	K1 ¹⁾	K3 ²⁾	K2 ²⁾	Page
14 Auxiliary switch block, front	3RH19 11-1...	3/102	1 2 3 Contactor, 5.5 kW	3RT10 15	3RT10 15	3RT10 15		3/15
16 Surge suppressors	3RT19 16-1...	3/108, 3/109	1 2 3 Contactor, 7.5 kW	3RT10 17	3RT10 17	3RT10 15		3/15
17 Three-phase feeder terminals	3RA19 13-3K	3/47	7 Solid-state time-delay auxiliary switch block, front	3RT19 16-2G.51				3/106
			9 Auxiliary switch block with 1 unassigned NO contact	3RH19 11-1BA10				3/102
			4 5 6 Assembly kit	3RA19 13-2B				3/47
			The assembly kit contains:					
			4 Mechanical interlock					
			5 3 connecting clips					
			6 Wiring modules on the top and bottom for connecting the main and control conducting paths					

¹⁾ Use version with 1 NO.

²⁾ Use version with 1 NC.

3RA13, 3RA14 Contactor Assemblies


3RA14 Contactor Assemblies for Wye-Delta Starting

3RA14 complete units, 3 ... 75 kW

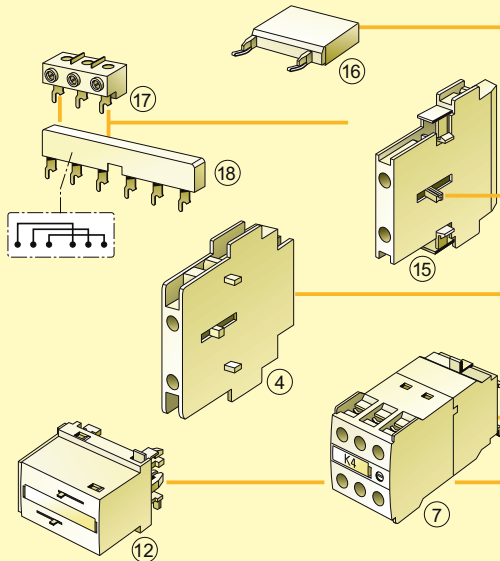
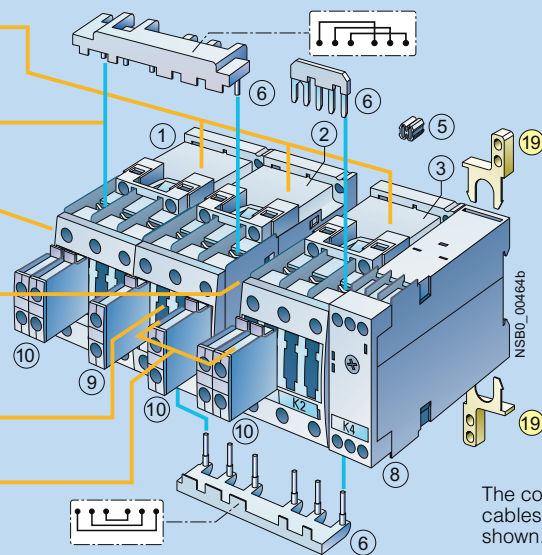
Fully wired and tested contactor assemblies · Size S0-S0-S0 · up to 18.5 kW



3RA14 2.-8XC21-1...

Rated data AC-3						Rated control supply voltage (U_s ¹⁾	DT	Screw terminals 	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Operational current I_e up to	Ratings of induction motors at 50 Hz and											
400 V	230 V	400 V	500 V	690 V			Order No.	Price per PU				
A	kW	kW	kW	kW	V							kg
AC operation, 50/60 Hz												
25	7.1	11	15.6	19	AC 24	C	3RA14 23-8XC21-1AC2	1	1 unit	101	1.800	
					AC 110	C	3RA14 23-8XC21-1AG2	1	1 unit	101	1.800	
					AC 230	▶	3RA14 23-8XC21-1AL2	1	1 unit	101	1.800	
32 / 40	11.4	15 / 18.5	19	19	AC 24	C	3RA14 25-8XC21-1AC2	1	1 unit	101	1.800	
					AC 110	C	3RA14 25-8XC21-1AG2	1	1 unit	101	1.800	
					AC 230	▶	3RA14 25-8XC21-1AL2	1	1 unit	101	1.800	
DC operation												
25	7.1	11	15.6	19	DC 24	▶	3RA14 23-8XC21-1BB4	1	1 unit	101	2.450	
32 / 40	11.4	15 / 18.5	19	19	DC 24	▶	3RA14 25-8XC21-1BB4	1	1 unit	101	2.450	

¹⁾ Coil operating range at 50 Hz:
0.8 ... 1.1 x U_s ; at 60 Hz: 0.85 ... 1.1 x U_s .

Mountable accessories (to be ordered separately):**The fully wired and tested contactor assembly includes the following components:**

Accessories	Order No.	Page	Individual parts	Order No.			Page
				K1	K3	K2	
4 Mechanical interlock, lateral	3RA19 24-2B	3/37	1 2 3 Contactor, 11 kW	3RT10 24	3RT10 24	3RT10 24	3/16
7 Solid-state time-delay auxiliary switch block, front ¹⁾	3RT19 26-2G...	3/106	1 2 3 Contactors, 15/18.5 kW	3RT10 26	3RT10 26	3RT10 24	3/16
12 Mechanical interlock, front	3RA19 24-1A	3/37	8 Timing relay, lateral	3RP15 74-1N.30			4)
15 Auxiliary switch block, lateral	3RH19 21-1EA..	3/104	9 Auxiliary switch block with 1 unassigned NO contact	3RH19 21-1CA10			3/103
16 Surge suppressor	3RT19 26-1...	3/108	10 Auxiliary switch block for local control				
17 Three-phase feeder terminal ²⁾	3RV19 15-5A	3/47	- 2 units	3RH19 21-1CA01			
18 Three-phase busbar ²⁾	3RT19 26-4CC20	3/47	- 3 units	3RH19 21-1CA10			3/103
19 Push-in lug ³⁾ for timing relay screw fixing	3RP19 03	4)	5 6 Assembly kit	3RA19 23-2B			3/47

The assembly kit contains:

- 5 Connecting clips
- 6 Wiring modules on the top and bottom for connecting the main and control conducting paths

¹⁾ Generally possible. If a solid-state time-delay auxiliary switch block is mounted onto the front of K3, a standard auxiliary switch block can only be mounted onto the side.

²⁾ 17 and 18 can only be mounted with contactors with screw terminal (coil).

³⁾ Not included in the scope of supply of the preassembled contactor assemblies; can be ordered as an accessory.

⁴⁾ See "Monitoring and Control Devices: 3RP, 7PV Timing Relays" → "3RP15 Timing Relays in Industrial Enclosure, 22.5 mm".

* You can order this quantity or a multiple thereof.

3RA13, 3RA14 Contactor Assemblies

3RA14 Contactor Assemblies for Wye-Delta Starting


3RA14 complete units, 3 ... 75 kW

Fully wired and tested contactor assemblies · Size S2-S2-S0 · up to 30 kW

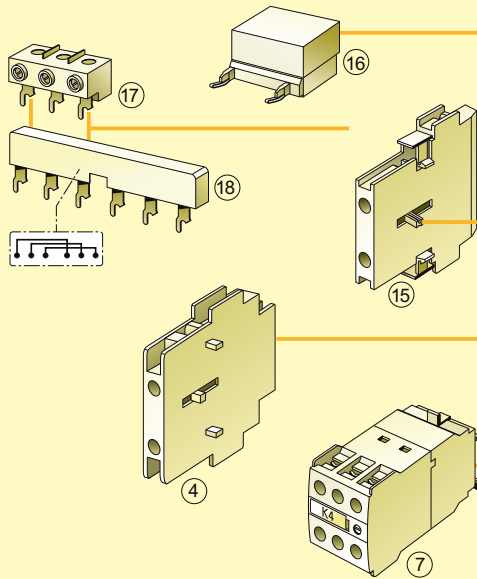


3RA14 34-8XC21-1...

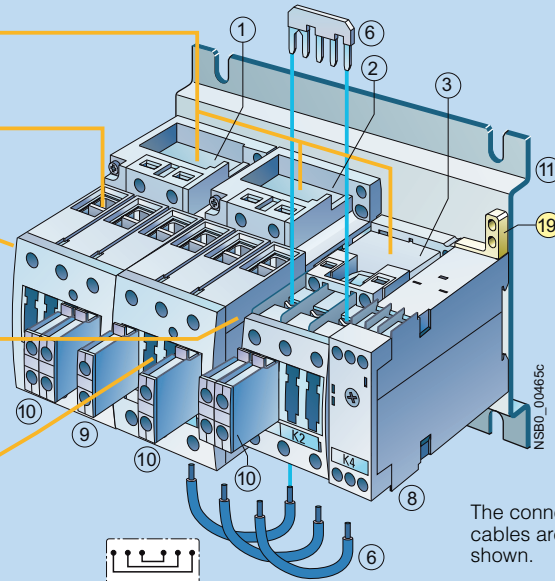
1) Coil operating range
at 50 Hz: 0.8 ... 1.1 x U_s ; at 60 Hz: 0.85 ... 1.1 x U_s .

Rated data AC-3						DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Operational current I_e up to	Ratings of induction motors at 50 Hz and				Rated control supply voltage U_s ¹⁾							
400 V	230 V	400 V	500 V	690 V			Order No.	Price per PU				
A	kW	kW	kW	kW	V							kg
AC operation, 50/60 Hz												
50 / 65	19.6	22 / 30	35	34	AC 24	C	3RA14 34-8XC21-1AC2		1	1 unit	101	3.100
					AC 110	C	3RA14 34-8XC21-1AG2		1	1 unit	101	3.100
					AC 230	▶	3RA14 34-8XC21-1AL2		1	1 unit	101	3.100
DC operation												
50 / 65	19.6	22 / 30	35	34	DC 24	▶	3RA14 34-8XC21-1BB4		1	1 unit	101	4.500

Mountable accessories (to be ordered separately):



The fully wired and tested contactor assembly includes the following components:



The connecting cables are not shown.

Accessories	Order No.	Page	Individual parts	Order No.			Page
				K1	K3	K2	
④ Mechanical interlock, lateral Depth compensation required K3: 1.5 mm; K2: 0 mm ¹⁾	3RA19 24-2B	3/37	① ② ③ Contactors, 22/30 kW	3RT10 34	3RT10 34	3RT10 26	3/16
⑦ Solid-state time-delay auxiliary switch block, front ²⁾	3RT19 26-2G...	3/106	⑧ Timing relay, lateral	3RP15 74-1N.30			4)
⑮ Auxiliary switch block, lateral	3RH19 21-1EA...	3/104	⑨ Auxiliary switch block with 1 unassigned NO contact	3RH19 21-1CA10			3/103
⑯ Surge suppressors	3RT19 26-1.... 3RT19 36-1....	3/108, 3/109	⑩ Auxiliary switch block for local control	3RH19 21-1CA01 3RH19 21-1CA10			3/103
⑰ Three-phase feeder terminals	3RV19 35-5A	3/47	⑪ Base plate	3RA19 32-2E			3/47
⑱ Three-phase busbars	3RV19 35-1A	3/47	⑫ Assembly kit	3RA19 33-2C			3/47
⑲ Push-in lug ³⁾ for timing relay screw fixing	3RP19 03	4)	The assembly kit contains the star jumper on the top and the wiring module on the bottom for connecting the main current paths.				

1) Use the 3RA19 32-2B base plate for this configuration.

2) Generally possible. If a solid-state time-delay auxiliary switch block is mounted onto the front of K3, a standard auxiliary switch block can only be mounted onto the side.

3) Not included in the scope of supply of the preassembled contactor assemblies; can be ordered as an accessory.

4) See "Monitoring and Control Devices: 3RP, 7PV Timing Relays" →
"3RP15 Timing Relays in Industrial Enclosure, 22.5 mm".

3RA13, 3RA14 Contactor Assemblies


3RA14 Contactor Assemblies for Wye-Delta Starting

3RA14 complete units, 3 ... 75 kW

Fully wired and tested contactor assemblies · Size S2-S2-S2 · up to 45 kW

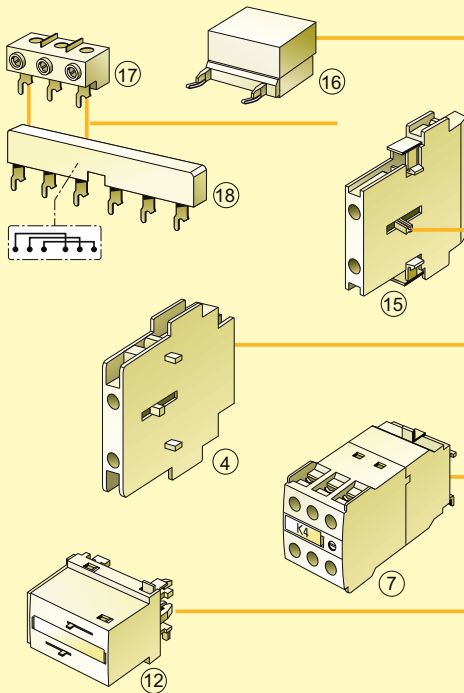


3RA14 3...8XC21-1...

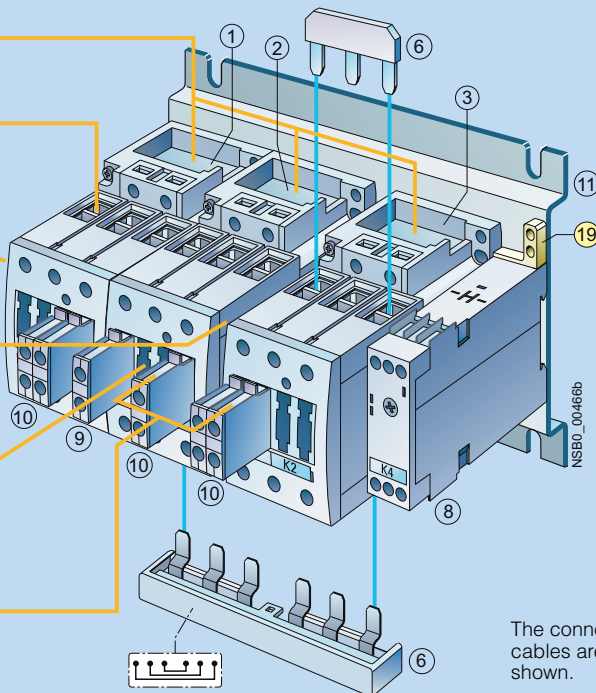
Rated data AC-3						Rated control supply voltage (U_s ¹⁾	DT	Screw terminals 	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Operational current I_e up to	Ratings of induction motors at 50 Hz and											
400 V	230 V	400 V	500 V	690 V			Order No.	Price per PU				
A	kW	kW	kW	kW	V							kg
AC operation, 50/60 Hz												
80	25	37	51	63	AC 24	C	3RA14 35-8XC21-1AC2		1	1 unit	101	3.700
					AC 110	C	3RA14 35-8XC21-1AG2		1	1 unit	101	3.700
					AC 230	▶	3RA14 35-8XC21-1AL2		1	1 unit	101	3.700
86	27	45	55	63	AC 24	C	3RA14 36-8XC21-1AC2		1	1 unit	101	3.700
					AC 110	C	3RA14 36-8XC21-1AG2		1	1 unit	101	3.700
					AC 230	▶	3RA14 36-8XC21-1AL2		1	1 unit	101	3.700
DC operation												
80	25	37	51	63	DC 24	B	3RA14 35-8XC21-1BB4		1	1 unit	101	5.500
86	27	45	55	63	DC 24	B	3RA14 36-8XC21-1BB4		1	1 unit	101	5.500

¹⁾ Coil operating range
at 50 Hz: 0.8 ... 1.1 x U_s ; at 60 Hz: 0.85 ... 1.1 x U_s .

Mountable accessories (to be ordered separately):



The fully wired and tested contactor assembly includes the following components:



The connecting cables are not shown.

Accessories	Order No.	Page	Individual parts	Order No.			Page
				K1	K3	K2	
④ Mechanical interlock, lateral	3RA19 24-2B	3/37	① ② ③ Contactor, 37 kW	3RT10 35	3RT10 35	3RT10 34	3/17
⑦ Solid-state time-delay auxiliary switch block, front ¹⁾	3RT19 26-2G...	3/106	① ② ③ Contactor, 45 kW	3RT10 36	3RT10 36	3RT10 34	3/17
⑫ Mechanical interlock, front	3RA19 24-1A	3/37	⑧ Timing relay, lateral	3RP15 74-1N.30			3)
⑮ Auxiliary switch block, lateral	3RH19 21-1EA...	3/104	⑨ Auxiliary switch block with 1 unassigned NO contact	3RH19 21-1CA10			3/103
⑯ Surge suppressor	3RT19 26-1... 3RT19 36-1...	3/108, 3/109	⑩ Auxiliary switch block for local control - 2 units - 3 units	3RH19 21-1CA01 3RH19 21-1CA10			3/103
⑰ Three-phase feeder terminal	3RV19 35-5A	3/47	⑪ Base plate	3RA19 32-2F			3/47
⑱ Three-phase busbars	3RV19 35-1A	3/47	⑫ Assembly kit	3RA19 33-2B			3/47
⑲ Push-in lug ²⁾ for timing relay screw fixing	3RP19 03	3)					

¹⁾ Generally possible. If a solid-state time-delay auxiliary switch block is mounted onto the front of K3, a standard auxiliary switch block can only be mounted onto the side.

²⁾ Not included in the scope of supply of the preassembled contactor assemblies; can be ordered as an accessory.

³⁾ See "Monitoring and Control Devices: 3RP, 7PV Timing Relays" → "3RP15 Timing Relays in Industrial Enclosure, 22.5 mm".

* You can order this quantity or a multiple thereof.

3RA13, 3RA14 Contactor Assemblies


3RA14 Contactor Assemblies for Wye-Delta Starting

3RA14 complete units, 3 ... 75 kW

Fully wired and tested contactor assemblies · Size S3-S3-S2 · up to 75 kW

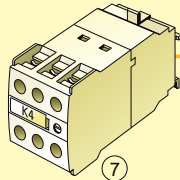
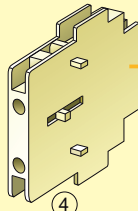
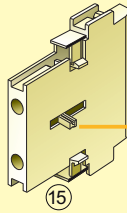
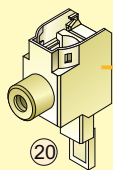
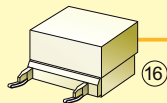


3RA14 4.-8XC21-1...

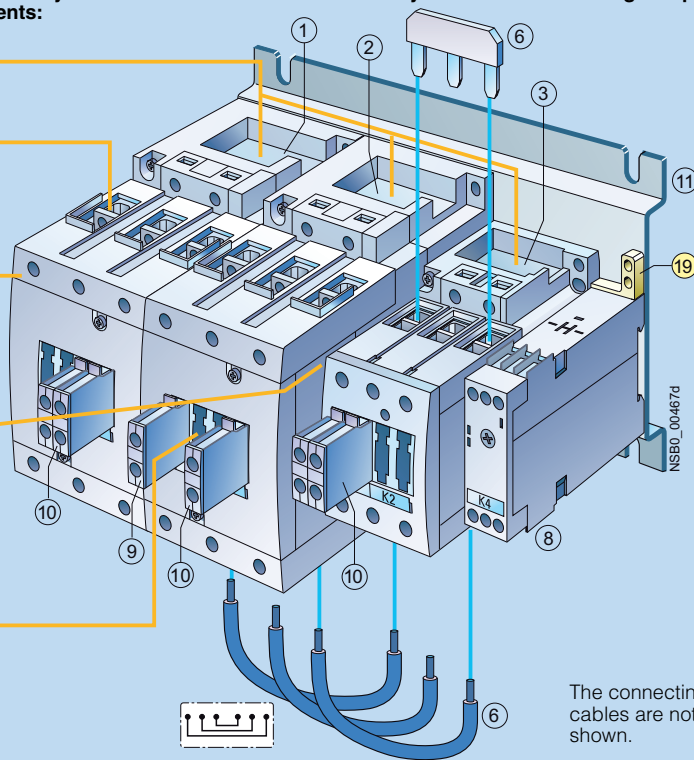
Rated data AC-3					Rated control supply voltage U_s ¹⁾	DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Operational current I_e up to	Ratings of induction motors at 50 Hz and											
400 V	230 V	400 V	500 V	690 V			Order No.	Price per PU				
A	kW	kW	kW	kW	V							kg
AC operation, 50/60 Hz												
115	37	55	81	93	AC 24	B	3RA14 44-8XC21-1AC2		1	1 unit	101	6.000
					AC 110	B	3RA14 44-8XC21-1AG2		1	1 unit	101	6.000
					AC 230	▶	3RA14 44-8XC21-1AL2		1	1 unit	101	6.000
150	47	75	103	110	AC 24	B	3RA14 45-8XC21-1AC2		1	1 unit	101	6.000
					AC 110	B	3RA14 45-8XC21-1AG2		1	1 unit	101	6.000
					AC 230	▶	3RA14 45-8XC21-1AL2		1	1 unit	101	6.000
DC operation												
115	37	55	81	93	DC 24	B	3RA14 44-8XC21-1BB4		1	1 unit	101	8.600
150	47	75	103	110	DC 24	B	3RA14 45-8XC21-1BB4		1	1 unit	101	8.600

¹⁾ Coil operating range at 50 Hz: 0.8 ... 1.1 x U_s ; at 60 Hz: 0.85 ... 1.1 x U_s .

Mountable accessories (to be ordered separately):



The fully wired and tested contactor assembly includes the following components:



The connecting cables are not shown.

Accessories		Order No.	Page	Individual parts		Order No.			Page
				K1	K3	K2			
④	Mechanical interlock, lateral Depth compensation required K3: 0 mm; K2: 27.5 mm ¹⁾	3RA19 24-2B	3/37	① ② ③ ① ② ③	Contactor, 55 kW Contactor, 75 kW	3RT10 44 3RT10 45	3RT10 44 3RT10 45	3RT10 35 3RT10 36	3/17 3/17
⑦	Solid-state time-delay auxiliary switch block, front ²⁾	3RT19 26-2G...	3/106	⑧ ⑨	Timing relay, lateral Auxiliary switch block with 1 unassigned NO contact	3RP15 74-1N.30			4)
⑮	Auxiliary switch block, lateral	3RH19 21-1EA...	3/104	⑩	Auxiliary switch block for local control	3RH19 21-1CA10			3/103
⑯	Surge suppressor	3RT19.6-1...	3/108		- 2 units	3RH19 21-1CA01			
⑰	Push-in lug ³⁾ for timing relay screw fixing	3RP19 03	4)		- 3 units	3RH19 21-1CA10			3/103
⑳	Single-phase feeder terminals	3RA19 43-3L	3/47	⑪ ⑥	Base plate Assembly kit	3RA19 42-2E 3RA19 43-2C			3/47 3/47

¹⁾ Use the 3RA19 42-2B base plate for this configuration.

²⁾ Generally possible. If a solid-state time-delay auxiliary switch block is mounted onto the front of K3, a standard auxiliary switch block can only be mounted onto the side.

³⁾ Not included in the scope of supply of the preassembled contactor assemblies; can be ordered as an accessory.

⁴⁾ See "Monitoring and Control Devices: 3RP, 7PV Timing Relays" → "3RP15 Timing Relays in Industrial Enclosure, 22.5 mm".

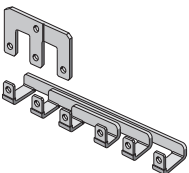
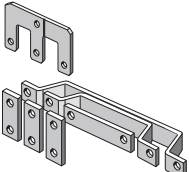

* You can order this quantity or a multiple thereof.

3RA13, 3RA14 Contactor Assemblies

3RA14 Contactor Assemblies for Wye-Delta Starting

Components for customer assembly

Selection and ordering data

Version	Size	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Assembly kits								
 3RA19 53-2B  3RA19 53-2N, 3RA19 63-2B, 3RA19 73-2B	The assembly kit contains: mechanical interlock; 3 connecting clips star jumper, wiring modules on the top and bottom	S00-S00-S00 ▶	3RA19 13-2B		1	1 unit	101	0.050
	The assembly kit contains: 5 connecting clips star jumper, wiring modules on the top and bottom	S0-S0-S0 ▶	3RA19 23-2B		1	1 unit	101	0.060
	The assembly kit contains: star jumper, wiring module on the bottom	S2-S2-S0 ▶ S2-S2-S2 ▶ S3-S3-S2 ▶	3RA19 33-2C 3RA19 33-2B 3RA19 43-2C		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.060 0.070 0.140
	(Wiring module on the top is not included in the scope of supply. A double infeed between the line contactor and the delta contactor is recommended.)	S3-S3-S3 ▶ S6-S6-S6 A S6-S6-S6 A S10-S10-S10 A S12-S12-S12 B	3RA19 43-2B 3RA19 53-2B 3RA19 53-2N 3RA19 63-2B 3RA19 73-2B		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	101 101 101 101 101	0.160 0.850 0.600 1.800 2.200
Single-phase feeder terminals								
	Conductor cross-section: 95 mm ²	S3 A	3RA19 43-3L		1	1 unit	101	0.280
Three-phase feeder terminal								
	Feeder terminal block for the line contactor for large conductor cross-sections							
	Conductor cross-section: 6 mm ²	S00 ▶	3RA19 13-3K		1	1 unit	101	0.020
	Conductor cross-section: 25 mm ²	S0 ▶	3RV19 25-5AB		1	1 unit	101	0.041
	Conductor cross-section: 50 mm ²	S2 ▶	3RV19 35-5A		1	1 unit	101	0.110
Three-phase busbars								
	Bridging phase-by-phase of all input terminals of							
	the line contactor (K1) and	S0 D	3RT19 26-4CC20		1	1 unit	101	0.030
	the delta contactor (K3)	S2 ▶	3RV19 35-1A		1	1 unit	101	0.150
Links for paralleling, 3-pole (star jumpers)								
 3RT19 26-4BA31	Without connection terminal (the links for paralleling can be reduced by one pole)	S00 ▶ S0 ▶ S2 ▶ S3 ▶ S6 ¹⁾ ▶ S10, S12 ¹⁾ ▶	3RT19 16-4BA31 3RT19 26-4BA31 3RT19 36-4BA31 3RT19 46-4BA31 3RT19 56-4BA31 3RT19 66-4BA31		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	101 101 101 101 101 101	0.010 0.010 0.020 0.030 0.160 0.500
Base plates								
	For customer assembly of contactor assemblies for wye-delta starting with a laterally mounted timing relay							
	Side-by-side mounting	S2, S2, S0 B	3RA19 32-2E		1	1 unit	101	0.450
	10 mm distance between K3 and K2	S2, S2, S2 B	3RA19 32-2F		1	1 unit	101	0.480
	Side-by-side mounting	S3, S3, S2 B	3RA19 42-2E		1	1 unit	101	0.870
	10 mm distance between K1, K3 and K2	S6, S6, S3 B	3RA19 52-2E		1	1 unit	101	1.800
		S6, S6, S6 B	3RA19 52-2F		1	1 unit	101	1.950
		S10, S10, S6 B	3RA19 62-2E		1	1 unit	101	3.180
		S10, S10, S10 B	3RA19 62-2F		1	1 unit	101	3.400
		S12, S12, S10 B	3RA19 72-2E		1	1 unit	101	3.600
		S12, S12, S12 B	3RA19 72-2F		1	1 unit	101	3.700
	For customer assembly of contactor assemblies for wye-delta starting with a front-mounted timing relay, 10 mm distance between K1, K3 and K2	S2, S2, S0 B S2, S2, S2 B S3, S3, S2 B	3RA19 32-2B 3RA19 32-2B 3RA19 42-2B		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.450 0.450 0.700

¹⁾ The 3RT19 56-4EA1 (S6) or 3RT19 66-4EA1 (S10, S12) cover can be used for touch protection.