

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications

Contactors with Extended Tolerance 0.7 ... 1.25 x U_s, for Railway Applications

3RT10 motor contactors, 5.5 ... 45 kW

DC operation · DC solenoid system

Screw terminals

For screw and snap-on mounting onto standard mounting rail

Contactor control unit

Solenoid fitted with varistor

Rated data AC-2 and AC-3 T _u : up to 70 °C		Auxiliary contacts ¹⁾		Rated control supply voltage U _s	DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Rated operational current I _e at	Rating of induction motors at 50 Hz	Ident. No.	Version			Order No.	Price per PU				kg
400 V	400 V										
A	kW	NO	NC	V DC							
For screw and snap-on mounting onto 35 mm standard mounting rail											
Size S0											
17	7.5	--	--	--	24	B	3RT10 25-1XB40-0LA2	1	1 unit	101	0.625
		--	--	--	110	B	3RT10 25-1XF40-0LA2	1	1 unit	101	0.340
25	11	--	--	--	24	B	3RT10 26-1XB40-0LA2	1	1 unit	101	0.627
		--	--	--	110	B	3RT10 26-1XF40-0LA2	1	1 unit	101	0.445
Size S2											
32	15	--	--	--	24	B	3RT10 34-1XB40-0LA2	1	1 unit	101	1.432
		--	--	--	110	B	3RT10 34-1XF40-0LA2	1	1 unit	101	1.505
40	18.5	--	--	--	24	B	3RT10 35-1XB40-0LA2	1	1 unit	101	1.491
		--	--	--	110	B	3RT10 35-1XF40-0LA2	1	1 unit	101	1.432
50	22	--	--	--	24	B	3RT10 36-1XB40-0LA2	1	1 unit	101	1.491
		--	--	--	110	B	3RT10 36-1XF40-0LA2	1	1 unit	101	1.432
For screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail											
Size S3											
65	30	--	--	--	24	B	3RT10 44-1XB40-0LA2	1	1 unit	101	2.864
		--	--	--	110	B	3RT10 44-1XF40-0LA2	1	1 unit	101	2.775
80	37	--	--	--	24	B	3RT10 45-1XB40-0LA2	1	1 unit	101	2.871
		--	--	--	110	B	3RT10 45-1XF40-0LA2	1	1 unit	101	2.720
95	45	--	--	--	24	B	3RT10 46-1XB40-0LA2	1	1 unit	101	2.913
		--	--	--	110	B	3RT10 46-1XF40-0LA2	1	1 unit	101	2.913

1) Auxiliary switch blocks mountable as standard contactors.

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications

Contactors with Extended Tolerance 0.7 ... 1.25 x U_s, for Railway Applications

3RT10 motor contactors, 5.5 ... 45 kW

DC operation · DC solenoid system
 Cage Clamp terminals
 For screw and snap-on mounting onto standard mounting rail
 Contactor control unit
 Solenoid fitted with varistor



3RT10 ...3X.40-0LA2

Rated data AC-2 and AC-3 T _{li} : up to 70 °C		Auxiliary contacts ¹⁾		Rated control supply voltage U _s	DT	Cage Clamp terminals for coil connections	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
Rated operational current I _e at 400 V A	Rating of induction motors at 50 Hz 400 V kW	Ident. No.	Version			Order No.	Price per PU			kg	
A	kW	NO	NC	V DC							
For screw and snap-on mounting onto 35 mm standard mounting rail											
Size S0											
17	7.5	--	--	24	B	3RT10 25-3XB40-0LA2		1	1 unit	101	0.340
		--	--	110	B	3RT10 25-3XF40-0LA2		1	1 unit	101	0.645
25	11	--	--	24	B	3RT10 26-3XB40-0LA2		1	1 unit	101	0.630
		--	--	110	B	3RT10 26-3XF40-0LA2		1	1 unit	101	0.639
Size S2											
32	15	--	--	24	C	3RT10 34-3XB40-0LA2		1	1 unit	101	1.466
		--	--	110	B	3RT10 34-3XF40-0LA2		1	1 unit	101	1.500
40	18.5	--	--	24	C	3RT10 35-3XB40-0LA2		1	1 unit	101	1.486
		--	--	110	B	3RT10 35-3XF40-0LA2		1	1 unit	101	1.515
50	22	--	--	24	B	3RT10 36-3XB40-0LA2		1	1 unit	101	1.489
		--	--	110	B	3RT10 36-3XF40-0LA2		1	1 unit	101	1.466
For screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail											
Size S3											
65	30	--	--	24	B	3RT10 44-3XB40-0LA2		1	1 unit	101	2.855
		--	--	110	B	3RT10 44-3XF40-0LA2		1	1 unit	101	2.787
80	37	--	--	24	B	3RT10 45-3XB40-0LA2		1	1 unit	101	2.720
		--	--	110	B	3RT10 45-3XF40-0LA2		1	1 unit	101	2.720
95	45	--	--	24	B	3RT10 46-3XB40-0LA2		1	1 unit	101	2.913
		--	--	110	B	3RT10 46-3XF40-0LA2		1	1 unit	101	2.913

1) Auxiliary switch blocks mountable as standard contactors.

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications

Contactors with Extended Tolerance 0.7 ... 1.25 x U_s, for Railway Applications

3TB5 motor contactors, 55 ... 200 kW

Overview

EN 60947-4-1.

For requirements according to IEC 60077-1 and IEC 60077-2.

The contactors are finger-safe according to EN 50274. Terminal covers may have to be fitted onto the connecting bars, depending on the configuration with other devices.

Application

For operation in plants which are subject both to considerable variations in the control voltage and to high ambient temperatures, e.g. in railway applications.

Selection and ordering data

3TB50 to 3TB56 contactors
With screw terminals
For screw fixing
Solenoid fitted with varistor

Size	Rated data AC-2 and AC-3		Auxiliary contacts ¹⁾				Rated control supply voltage U _s		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Operational current I _e at 400 V A	Ratings of induction motors at 230 V kW	400 V kW	500 V kW	690 V kW	NO	NC	V DC						kg	
Contactors for switching AC voltage - DC operation - DC solenoid system															
6	110	37	55	75	90	2	1	24 110	C C	3TB50 17-0LB4 3TB50 17-0LF4		1 1	1 unit 1 unit	101 101	6.674 6.640
8	170	55	90	110	132	2	1	24 110	C C	3TB52 17-0LB4 3TB52 17-0LF4		1 1	1 unit 1 unit	101 101	9.250 9.222
10	250	75	132	160	200	2	1	24 110	C C	3TB54 17-0LB4 3TB54 17-0LF4		1 1	1 unit 1 unit	101 101	16.800 8.845
12	400	115	200	255	355	2	1	110	C	3TB56 17-0LF4		1	1 unit	101	19.793

1) The number of auxiliary contacts cannot be increased.

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications

Contactors with Extended Tolerance 0.7 ... 1.25 x U_s, for Railway Applications

3TC contactors for switching DC voltage, 2-pole

Overview

EN 60947-4-1.

For requirements according to IEC 60077-1 and IEC 60077-2.

The contactors are finger-safe according to EN 50274 (exception: series resistor). Terminal covers may have to be fitted onto the connecting bars, depending on the configuration with other devices.

Application

For operation in plants which are subject both to considerable variations in the control voltage and to high ambient temperatures, e.g. in railway applications.

Selection and ordering data

With screw terminals

3TC44: for screw and snap-on mounting onto 35 mm standard mounting rail

3TC48 to 3TC56: for screw fixing

Solenoid fitted with varistor



3TC48

Size	Utilization category	Rated operational current I _e at 750 V A	Rating of AC loads at				Auxiliary contacts ¹⁾		Rated control supply voltage U _s V DC	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
			220 V kW	440 V kW	600 V kW	750 V kW	NO	NC								
Contactors for switching DC voltage · DC operation · DC solenoid system																
2	DC-1	32	7	14	19.2	24	2	1	24	B	3TC44 17-0LB4		1	1 unit	101	1.321
	DC-3/DC-5	7.5	5	9	9	4			110	C			3TC44 17-0LF4	1	1 unit	101
4	DC-1	75	16.5	33	45	56	2	1	24	C	3TC48 17-0LB4		1	1 unit	101	4.857
	DC-3/DC-5	75	13	27	38	45			110	C			3TC48 17-0LF4	1	1 unit	101
8	DC-1	170	48	97	132	165	2	1	24	C	3TC52 17-0LB4		1	1 unit	101	10.722
	DC-3/DC-5	170	41	82	110	110			110	C			3TC52 17-0LF4	1	1 unit	101
12	DC-1	400	88	176	240	300	2	1	24	C	3TC56 17-0LB4		1	1 unit	101	24.150
	DC-3/DC-5	400	70	140	200	250			110	C			3TC56 17-0LF4	1	1 unit	101

1) The number of auxiliary contacts cannot be increased.

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications

3TC Contactors for Switching DC Voltage

1- and 2-pole, 32 ... 400 A

Overview

3TC4 and 3TC5

EN 60947-4-1 (VDE 0660 Part 102)

The contactors are finger-safe according to EN 50274.

Terminal covers may have to be fitted onto the connecting bars, depending on the configuration with other devices.

The DC motor ratings given in the tables are applicable to the DC-3 and DC-5 utilization categories with two-pole switching of the load or with the two conducting paths of the contactor connected in series.

One contactor conducting path can switch full power up to 220 V. The ratings for higher voltages are available on request.

3TC7

EN 60947-4-1 (VDE 0660 Part 102).

The contactors are suitable for use in any climate. They are suitable for switching and controlling DC motors as well as all other DC loads. The electromagnetic excitation is designed for a particularly wide coil operating range.

It is between 0.7 or 0.8 to $1.2 \times U_s$.

3TC74 contactors can be used at up to 750V/400A and 50 Hz in AC-1 operation.

Application

The contactors are suitable for switching and controlling DC motors as well as all other DC circuits.

A version with an especially large operating range is available for use in electrically driven vehicles and in switchgear with significant fluctuations in the operating voltage (see page 3/74).

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications

3TC Contactors for Switching DC Voltage

1- and 2-pole, 32 ... 400 A

Selection and ordering data



3TC44

3TC48

Size	Rated data DC-3 and DC-5 ¹⁾	Auxiliary contacts ²⁾	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Operational current I_e ³⁾	Ratings of DC motors at								
	A	110 V 220 V 440 V 600 V 750 V kW kW kW kW kW								kg
		Version								
		NO NC V								

3TC44 to 3TC56 2-pole contactors - Operating voltage up to 440 V

DC operation

Screw and snap-on mounting onto 35 mm standard mounting rail

2	32	2.5	5	9	9	4	2	2	24 DC 110 DC 220 DC	▶ ▶ ▶	3TC44 17-0AB4 3TC44 17-0AF4 3TC44 17-0AM4	1 1 1	1 unit 1 unit 1 unit	101 101 101	1.050 1.046 1.050
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Screw mounting

4	75	6.5	13	27	38	45	2	2	24 DC 110 DC 220 DC	▶ ▶ A	3TC48 17-0AB4 3TC48 17-0AF4 3TC48 17-0AM4	1 1 1	1 unit 1 unit 1 unit	101 101 101	4.680 4.745 4.513
8	220 ⁴⁾	20	41	82	110	110	2	2	24 DC 110 DC 220 DC	C C C	3TC52 17-0AB4 3TC52 17-0AF4 3TC52 17-0AM4	1 1 1	1 unit 1 unit 1 unit	101 101 101	10.589 9.826 9.878
12	400	35	70	140	200	250	2	2	24 DC 110 DC 220 DC	C C C	3TC56 17-0AB4 3TC56 17-0AF4 3TC56 17-0AM4	1 1 1	1 unit 1 unit 1 unit	101 101 101	17.870 19.318 22.870

AC operation, 50/Hz

Screw and snap-on mounting onto 35 mm standard mounting rail

2	32	2.5	5	9	9	4	2	2	220 / 230 AC ⁵⁾ 110 / 110 AC	▶ ▶	3TC44 17-0BP0 3TC44 17-0BF0	1 1	1 unit 1 unit	101 101	0.673 0.683
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Screw mounting

4	75	6.5	13	27	38	45	2	2	220 / 230 AC ⁵⁾ 110 AC	▶ C	3TC48 17-0BP0 3TC48 17-0BF0	1 1	1 unit 1 unit	101 101	3.447 3.487
8	220 ⁴⁾	20	41	82	110	110	2	2	220 / 230 AC ⁵⁾ 110 AC	A C	3TC52 17-0BP0 3TC52 17-0BF0	1 1	1 unit 1 unit	101 101	7.005 7.041
12	400	35	70	140	200	250	2	2	220 / 230 AC ⁵⁾ 110 AC	C C	3TC56 17-0BP0 3TC56 17-0BF0	1 1	1 unit 1 unit	101 101	14.437 14.363

For more rated control supply voltages U_s , see page 3/77.

- For the permissible load for utilization category DC-1, see Technical Specifications.
- The auxiliary switch complement cannot be altered on DC-operated contactors.
- The following rated operational currents are permitted for reversing duty with 3TC44 to 3TC56 contactors:

Contactor Type	Rated operating voltage	
	110 V, 220 V	440 V
3TC44	32 A	7 A
3TC48	75 A	75 A
3TC52	170 A	170 A
3TC56	400 A	400 A
- For > 600 V: $I_e = 170$ A.
- Operating range at 220 V: 0.85 to 1.15 x U_s .

3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications

3TC Contactors for Switching DC Voltage

1- and 2-pole, 32 ... 400 A



3TC74

3TC78

Size	Rated data DC-3 and DC-5 ¹⁾	Auxiliary contacts ²⁾	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Operational current I_e									
	Ratings of DC motors at									
		110 V	220 V	440 V	600 V	750 V	1200 V	1500 V		
A		kW	kW	kW	kW	kW	kW		NO	NC
										V
										kg

3TC74 1-pole contactors - Operating voltage up to 750 V

DC operation

12	400	35	70	140	200	250	--	--	4	4	24 DC 110 DC	C C	3TC74 14-0EB 3TC74 14-0EF	1 1	1 unit 1 unit	101 101	10.728 10.660
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AC operation, 50 Hz

12	400	35	70	140	200	250	--	--	4	4	230 / 220 AC ³⁾	C	3TC74 14-1CM	1	1 unit	101	10.850
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3TC78 2-pole contactors - Operating voltage up to 1500 V

DC operation

12	400	35	70	140	200	250	400	500	4	4	24 DC 110 DC	C C	3TC78 14-0EB 3TC78 14-0EF	1 1	1 unit 1 unit	101 101	22.500 15.960
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AC operation, 50 Hz

12	400	35	70	140	200	250	400	500	4	4	230 / 220 AC ³⁾	C	3TC78 14-1CM	1	1 unit	101	23.824
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For more rated control supply voltages U_s , see below.

For spare parts, see page 3/144.

- 1) For the permissible load for utilization category DC-1, see Technical Specifications.
- 2) The auxiliary switch complement cannot be altered on DC-operated contactors.
- 3) Upper operating range limit at 230 V: $1.14 \times U_s$.

Contactors type	3TC44	3TC48	3TC52/56	3TC74/78
Rated control supply voltage U_s				

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

AC operation - Coils for 50 Hz

24 V AC	B0	B0	--	--
110 V AC	F0	F0	F0	--
230/220 V AC	P0 ¹⁾	P0 ¹⁾	P0 ¹⁾	M ²⁾
240 V AC	U0	U0	--	--

AC operation - Coils for 50/60 Hz

24 V AC	C2	--	--	--
110 V AC	G2	--	--	--
120 V AC	K2	--	--	--
220 V AC	N2	--	--	--
230 V AC	L2	--	--	--

DC operation

24 V DC	B4	B4	B4	B
48 V DC	W4	W4	--	--
60 V DC	E4	E4	--	--
110 V DC	F4	F4	F4	F
125 V DC	G4	G4	--	--
220 V DC	M4	M4	M4	M
230 V DC	P4	P4	--	--

- 1) Coil operating range at 220 V or 380 V: 0.85 to $1.15 \times U_s$; lower operating range limit according to IEC 60947.
- 2) Upper operating range limit at 230 V: $1.14 \times U_s$.

3RH, 3TH Contactor Relays

3RH1 contactor relays, 4- and 8-pole

Overview

The SIRIUS generation of controls is a complete, modular system family, logically designed right down to the last detail, from the basic units to the accessories.

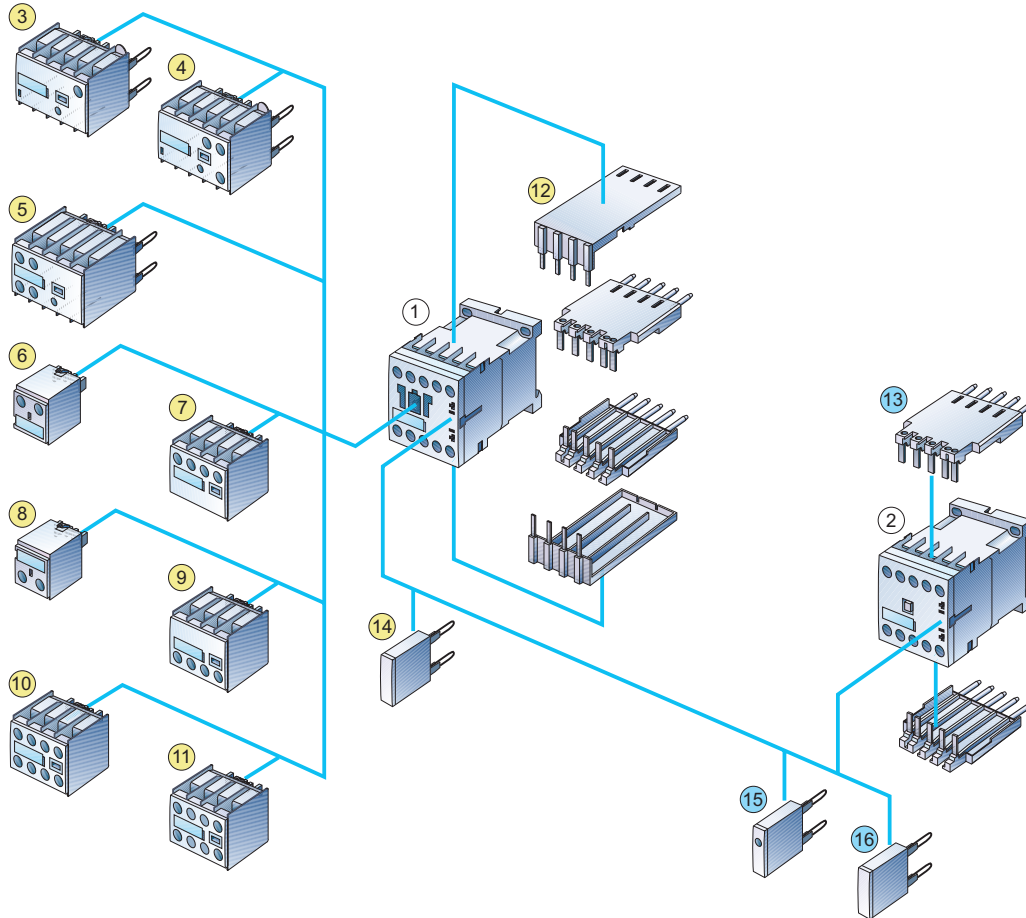
Contactor relays and coupling relays
Size S00 with accessories

AC and DC operation

IEC 60947, EN 60947 (VDE 0660)

The 3RH1 contactor relays are suitable for use in any climate. They are finger-safe according to EN 50274.

The 3RH1 contactor relays have screw or Cage Clamp terminals. Four contacts are available in the basic unit.



- ① Contactor relay, see page 3/79
- ② Coupling relay for auxiliary circuits, see page 3/88
- ③ Solid-state time-delay block, ON-delay, see page 3/118
- ④ Solid-state time delay block, OFF-delay, see page 3/118
- ⑤ Auxiliary switch block with solid-state time delay, see page 3/117
(versions: ON or OFF-delay)
- ⑥ 1-pole auxiliary switch block, cable entry from above, see page 3/110
- ⑦ 2-pole auxiliary switch block, cable entry from above, see page 3/110
- ⑧ Single-pole auxiliary switch block, cable entry from below, see page 3/110
- ⑨ 2-pole auxiliary switch block, cable entry from below, see page 3/110
- ⑩ 4-pole auxiliary switch block, see page 3/110
(terminal designations according to EN 50011 or EN 50005)
- ⑪ 2-pole auxiliary switch block, standard design or solid-state compatible version, see page 3/110
(terminal designations according to EN 50005)
- ⑫ Solder pin adapter for contactor relays with 4-pole auxiliary switch block, see page 3/123
- ⑬ Solder pin adapter for contactor relays and coupling relays, see page 3/122
- ⑭ Additional load module for increasing the permissible residual current, see page 3/121
- ⑮ Surge suppressor with LED, see page 3/120
- ⑯ Surge suppressor without LED, see page 3/120

Selection and ordering data

AC and DC operation Screw terminals



3RH11 ..-1...



3RH12 ..-1...

Rated operational current I_n /AC-15/AC-14 at 230 V	Contacts	Rated control supply voltage U_s	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	Ident. No. Version NO NC V			Order No. Price per PU				kg

For screw and snap-on mounting onto 35 mm standard mounting rail

AC operation

AC 50/60 Hz¹⁾

• Size S00

Terminal designations according to EN 50011

6	40 E	4	--	24	▶	3RH11 40-1AB00	1	1 unit	101	0.204
				110	▶	3RH11 40-1AF00	1	1 unit	101	0.202
				230	▶	3RH11 40-1AP00	1	1 unit	101	0.204
31 E	3	1	24	▶	3RH11 31-1AB00	1	1 unit	101	0.204	
			110	▶	3RH11 31-1AF00	1	1 unit	101	0.202	
			230	▶	3RH11 31-1AP00	1	1 unit	101	0.203	
22 E	2	2	24	▶	3RH11 22-1AB00	1	1 unit	101	0.203	
			110	▶	3RH11 22-1AF00	1	1 unit	101	0.202	
			230	▶	3RH11 22-1AP00	1	1 unit	101	0.204	

With permanently mounted auxiliary switch block

6	44 E	4	4	230	▶	3RH12 44-1AP00	1	1 unit	101	0.254
	62 E	6	2	230	▶	3RH12 62-1AP00	1	1 unit	101	0.251

DC operation · DC solenoid system

				DC						
6	40 E	4	--	24	▶	3RH11 40-1BB40	1	1 unit	101	0.264
				220	▶	3RH11 40-1BM40	1	1 unit	101	0.261
31 E	3	1		24	▶	3RH11 31-1BB40	1	1 unit	101	0.262
				220	▶	3RH11 31-1BM40	1	1 unit	101	0.259
22 E	2	2		24	▶	3RH11 22-1BB40	1	1 unit	101	0.264
				220	▶	3RH11 22-1BM40	1	1 unit	101	0.260

With permanently mounted auxiliary switch block

6	44 E	4	4	24	▶	3RH12 44-1BB40	1	1 unit	101	0.312
	62 E	6	2	24	▶	3RH12 62-1BB40	1	1 unit	101	0.313

For other voltages, see page 3/81.

For accessories, see page 3/110 and 3/113.

For multi-unit packing and reusable packaging, see Appendix -> Ordering Notes.

1) Coil operating range
 at 50 Hz: 0.8 to $1.1 \times U_s$
 at 60 Hz: 0.85 to $1.1 \times U_s$.

3RH, 3TH Contactor Relays



3RH1 contactor relays, 4- and 8-pole

AC and DC operation Cage Clamp terminals



3RH11 ...2...

3RH12 ...2...

Rated operational current I_e /AC-15/AC-14 at 230 V	Contacts		Rated control supply voltage U_s	DT	Cage Clamp terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Ident. No.	Version			Order No.	Price per PU				
A		 NO  NC	V							kg

For screw and snap-on mounting onto 35 mm standard mounting rail

AC operation

AC 50/60 Hz¹⁾

• Size S00

Terminal designations according to EN 50011

6	40 E	4	--	24	▶	3RH11 40-2AB00	1	1 unit	101	0.201
				110	▶	3RH11 40-2AF00	1	1 unit	101	0.199
				230	▶	3RH11 40-2AP00	1	1 unit	101	0.200
	31 E	3	1	24	▶	3RH11 31-2AB00	1	1 unit	101	0.200
				110	▶	3RH11 31-2AF00	1	1 unit	101	0.199
				230	▶	3RH11 31-2AP00	1	1 unit	101	0.199
	22 E	2	2	24	▶	3RH11 22-2AB00	1	1 unit	101	0.201
				110	▶	3RH11 22-2AF00	1	1 unit	101	0.200
				230	▶	3RH11 22-2AP00	1	1 unit	101	0.199
With permanently mounted auxiliary switch block										
6	44 E	4	4	230	B	3RH12 44-2AP00	1	1 unit	101	0.253
	62 E	6	2	230	B	3RH12 62-2AP00	1	1 unit	101	0.254

DC operation - DC solenoid system

6	40 E	4	--	24	▶	3RH11 40-2BB40	1	1 unit	101	0.260
				220	B	3RH11 40-2BM40	1	1 unit	101	0.257
	31 E	3	1	24	▶	3RH11 31-2BB40	1	1 unit	101	0.259
				220	B	3RH11 31-2BM40	1	1 unit	101	0.254
	22 E	2	2	24	▶	3RH11 22-2BB40	1	1 unit	101	0.261
				220	B	3RH11 22-2BM40	1	1 unit	101	0.255
With permanently mounted auxiliary switch block										
6	44 E	4	4	24	A	3RH12 44-2BB40	1	1 unit	101	0.311
	62 E	6	2	24	A	3RH12 62-2BB40	1	1 unit	101	0.314

For other voltages, see page 3/81.

For accessories, see page 3/110 and 3/113.

For multi-unit packing and reusable packaging, see Appendix -> Ordering Notes.

1) Coil operating range
at 50 Hz: 0.8 to $1.1 \times U_s$
at 60 Hz: 0.85 to $1.1 \times U_s$.

Contactor	Type	3RH11
-----------	------	--------------

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

AC operation

Coils for AC 50 and 60 Hz

Rated control supply voltage U_s	Control supply voltage at	Option
V AC 50/60 Hz ¹⁾	V AC 60 Hz	
24	--	B0
42	--	D0
48	--	H0
110	--	F0
220	--	N2
230	--	P0
400	--	V0
For Japan ²⁾		
100	110	G6
200	220	N6
400	440	R6
For USA and Canada ³⁾		
V AC 50 Hz	V AC 60 Hz	
110	120	K6
220	240	P6

- 1) Coil operating range
at 50 Hz: 0.8 to 1.1 x U_s
at 60 Hz: 0.85 to 1.1 x U_s .
- 2) Coil operating range
at 50/60 Hz: 0.85 to 1.1 x U_s
at 60 Hz: 0.8 to 1.1 x U_s .
- 3) Coil operating range
at 50 Hz: 0.85 to 1.1 x U_s
at 60 Hz: 0.8 to 1.1 x U_s .

DC operation

Rated control supply voltage U_s

V DC	Option
12	A4
24	B4
42	D4
48	W4
60	E4
110	F4
125	G4
220	M4
230	P4

3RH, 3TH Contactor Relays

3RH14 latched contactor relays, 4-pole

Overview

AC and DC operation

IEC 60947, EN 60947 (VDE 0660)

The terminal designations comply with EN 50011.

The contactor coil and the coil of the release solenoid are both designed for continuous duty.

The number of auxiliary contacts can be extended by means of auxiliary switch blocks (up to 4 poles).



RC elements, varistors, diodes or diode assemblies can be fitted to both coils from the front for damping opening surges in the coil.

The contactor relay can also be switched on and released manually. (For minimum actuating times, see Technical Specifications).

Selection and ordering data



3RH14 22-1BB40

Rated operational current I_e /AC-15/AC-14 at 230 V	Contacts	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	Ident. No. acc. to Version EN 50011 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  NO </div> <div style="text-align: center;">  NC </div> </div>	V							kg

With screw terminals · for screw and snap-on mounting onto 35 mm standard mounting rail

AC operation

				AC 50/60 Hz ¹⁾						
6	40 E	4	--	24	B	3RH14 40-1AB00	1	1 unit	101	0.385
				42	B	3RH14 40-1AD00	1	1 unit	101	0.380
				110	B	3RH14 40-1AF00	1	1 unit	101	0.385
				230	A	3RH14 40-1AP00	1	1 unit	101	0.384
	31 E	3	1	24	B	3RH14 31-1AB00	1	1 unit	101	0.385
				42	B	3RH14 31-1AD00	1	1 unit	101	0.386
				110	B	3RH14 31-1AF00	1	1 unit	101	0.385
				230	B	3RH14 31-1AP00	1	1 unit	101	0.386
	22 E	2	2	24	B	3RH14 22-1AB00	1	1 unit	101	0.389
				42	B	3RH14 22-1AD00	1	1 unit	101	0.388
				110	B	3RH14 22-1AF00	1	1 unit	101	0.387
				230	▶	3RH14 22-1AP00	1	1 unit	101	0.389

DC operation · DC solenoid system

				DC						
6	40 E	4	--	24	▶	3RH14 40-1BB40	1	1 unit	101	0.509
				110	B	3RH14 40-1BF40	1	1 unit	101	0.504
				220	B	3RH14 40-1BM40	1	1 unit	101	0.502
	31 E	3	1	24	B	3RH14 31-1BB40	1	1 unit	101	0.504
				110	B	3RH14 31-1BF40	1	1 unit	101	0.510
				220	B	3RH14 31-1BM40	1	1 unit	101	0.494
	22 E	2	2	24	▶	3RH14 22-1BB40	1	1 unit	101	0.504
				110	B	3RH14 22-1BF40	1	1 unit	101	0.505
				220	B	3RH14 22-1BM40	1	1 unit	101	0.510

For accessories, see page 3/110 and 3/113.

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

Overview

AC and DC operation

IEC 60947 and EN 60947 (VDE 0660)

The 3TH42/3TH43 contactor relays are suitable for use in any climate. They are finger-safe according to EN 50274.

Terminal designations according to EN 50011

In terms of their terminal designations, identification numbers and identification letters, the 3TH42/3TH43 contactor relays conform to the standard EN 50011 for "Specific Contactor Relays".

Selection and ordering data



3TH42 ...0...

Contacts	Rated operational current I_e /AC-15/AC-14 at	Contacts	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	230/ 400/ 500 V 220 V 380 V	Ident. No. acc. to EN 50011	Version						
Number	A A A A		NO NC NO NC						kg

With screw terminals · for screw and snap-on mounting onto 35 mm standard mounting rail

AC operation, rated control supply voltage $U_s = AC\ 50\ Hz\ 230/220\ V^{1)}$

8	10	6	4	2	80 E	8	--	--	--	B	3TH42 80-0AP0	1	1 unit	101	0.422
					71 E	7	1	--	--	B	3TH42 71-0AP0	1	1 unit	101	0.420
					62 E	6	2	--	--	B	3TH42 62-0AP0	1	1 unit	101	0.420
					53 E	5	3	--	--	C	3TH42 53-0AP0	1	1 unit	101	0.420
					44 E	4	4	--	--	B	3TH42 44-0AP0	1	1 unit	101	0.419
					44 E, U	3	3	1	1	B	3TH42 93-0AP0	1	1 unit	101	0.425

DC operation · DC solenoid system, rated control supply voltage $U_s = 24\ V\ DC$

8	10	6	4	2	80 E	8	--	--	--	B	3TH42 80-0BB4	1	1 unit	101	0.664
					71 E	7	1	--	--	B	3TH42 71-0BB4	1	1 unit	101	0.663
					62 E	6	2	--	--	B	3TH42 62-0BB4	1	1 unit	101	0.673
					53 E	5	3	--	--	B	3TH42 53-0BB4	1	1 unit	101	0.662
					44 E	4	4	--	--	B	3TH42 44-0BB4	1	1 unit	101	0.660
					44 E, U	3	3	1	1	B	3TH42 93-0BB4	1	1 unit	101	0.667

For accessories, see page 3/139.

Spare parts

Magnetic coils:

AC operation: 3TY7 403-0A.

DC operation: 3TY4 803-0B.

(voltages on request)

Contacts:

The contacts cannot be replaced on 3TH42 contactor relays.

- 1) Operating range at 220 V: 0.85 to $1.1 \times U_n$;
lower operating range limit according to IEC 60947.

3RH, 3TH Contactor Relays

3TH4 contactor relays, 8- and 10-pole



3TH43 ...-0A..

3TH43 ...-0B..

Contacts	Rated operational current I_{op} /AC-15/AC-14 at	Contacts	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	230 V 400 V 500 V 690 V	Ident. No. acc. to EN 50011	Version						
Number	A A A A	NO NC NO NC							kg

With screw terminals · for screw and snap-on mounting onto 35 mm standard mounting rail

AC operation, rated control supply voltage $U_s = AC\ 50\ Hz\ 230/220\ V^1)$

10	10	6	4	2	100 E	10	--	--	--	▶	Order No.	PU	PS*	PG	Weight per PU approx.
					91 E	9	1	--	--	▶	3TH43 10-0AP0	1	1 unit	101	0.465
					82 E	8	2	--	--	▶	3TH43 91-0AP0	1	1 unit	101	0.465
					73 E	7	3	--	--	▶	3TH43 82-0AP0	1	1 unit	101	0.465
					73 E,U	6	2	1	1	▶	3TH43 73-0AP0	1	1 unit	101	0.463
					64 E	6	4	--	--	▶	3TH43 46-0AP0	1	1 unit	101	0.466
					55 E	5	5	--	--	▶	3TH43 64-0AP0	1	1 unit	101	0.462
					55 E,U	4	4	1	1	▶	3TH43 55-0AP0	1	1 unit	101	0.463
										▶	3TH43 94-0AP0	1	1 unit	101	0.465

DC operation · DC solenoid system, rated control supply voltage $U_s = 24\ V\ DC$

10	10	6	4	2	100 E	10	--	--	--	▶	Order No.	PU	PS*	PG	Weight per PU approx.
					91 E	9	1	--	--	▶	3TH43 10-0BB4	1	1 unit	101	0.710
					82 E	8	2	--	--	▶	3TH43 91-0BB4	1	1 unit	101	0.707
					73 E	7	3	--	--	▶	3TH43 82-0BB4	1	1 unit	101	0.705
					73 E U	6	2	1	1	▶	3TH43 73-0BB4	1	1 unit	101	0.697
					64 E	6	4	--	--	▶	3TH43 46-0BB4	1	1 unit	101	0.706
					55 E	5	5	--	--	▶	3TH43 64-0BB4	1	1 unit	101	0.708
					55 E U	4	4	1	1	▶	3TH43 55-0BB4	1	1 unit	101	0.705
										▶	3TH43 94-0BB4	1	1 unit	101	0.707

For accessories, see page 3/139.

- 1) Operating range at 220 V: 0.85 to 1.1 x U_s , lower operating range limit according to IEC 60947.

Spare parts
Magnetic coils:
AC operation: 3TY7 403-0A.
DC operation: 3TY4 803-0B.
Contacts:
The contacts cannot be replaced on 3TH43 contactor relays.

Contactor	Type	3TH42/3TH43			
Rated control supply voltages (the 10th and 11th position of the order number must be changed)					
AC operation			DC operation		
Coils for AC 50 Hz			Coils for AC 50 and 60 Hz		
Rated control supply voltage U_s		Control supply voltage at	Rated control supply voltage U_s		Rated control supply voltage U_s
V AC 50 Hz	V AC 60 Hz	Option	V AC 50/60 Hz	Option	V DC
24	29	B0	24	C2	12
36	42	G0	42	D2	24
42	50	D0	110	G2	30
48	58	H0	115	J2	36
60	72	E0	120	K2	42
110	132	F0	220	N2	48
125/127	150/152	L0	230	L2	60
230/220	276	P0 ¹⁾	240	P2	110
240	288	U0	440	R2	125
400/380	480/460	V0 ¹⁾			220
415	500	R0			230
500	600	S0			240
For Japan					
100	100-110	G6 ²⁾			
200	200-220	N6 ²⁾			
For USA and Canada					
110	120	K6 ²⁾			
220	240	P6 ²⁾			

- 1) Operating range at 220 V or 380 V: 0.85 to 1.1 x U_s .
2) Operating range at 60 Hz: 0.85 to 1.1 x U_s .

* You can order this quantity or a multiple thereof.

Overview

AC and DC operation

IEC 60947 (VDE 0660).

The terminal designations comply with EN 50011.

3TH2 contactor relays

The 3TH2 contactor relays are suitable for use in any climate.

The contactor relays with screw terminals are finger-safe according to EN 50274.

3TH27 latched auxiliary contactors

The contactor coil and the coil of the release solenoid are both designed for continuous duty.

RC elements, varistors, diodes or diode assemblies can be fitted to both coils from the front for damping opening surges in the coil.

The contactor relay can also be switched on and released manually.

3RH, 3TH Contactor Relays

3TH2 contactor relays, 4- and 8-pole

Selection and ordering data

Contacts	Rated operational current I_e /AC-15/AC-14 at	Contacts	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	230/ 400/ 500 V 220 V 380 V	690/ 660 V	Ident. No. Version acc. to EN 50011						
			NO NC						kg

Contactor relays with screw terminals - for screw and snap-on mounting onto 35 mm standard mounting rail

AC operation



4	4	3	2	1	40 E	4	--	A	3TH20 40-0A0	1	1 unit	101	0.194
					31 E	3	1	A	3TH20 31-0A0	1	1 unit	101	0.193
					22 E	2	2	A	3TH20 22-0A0	1	1 unit	101	0.193

DC operation - DC solenoid system

4	4	3	2	1	40 E	4	--	A	3TH20 40-0BB4	1	1 unit	101	0.214
					31 E	3	1	A	3TH20 31-0BB4	1	1 unit	101	0.215
					22 E	2	2	A	3TH20 22-0BB4	1	1 unit	101	0.216

3TH20 ...0A..

Contactor relays with 6.3 mm x 0.8 mm flat connectors

AC operation

For screw and snap-on mounting onto 35 mm standard mounting rail



4	4	3	2	--	40 E	4	--	B	3TH20 40-3A0	1	1 unit	101	0.166
					31 E	3	1	B	3TH20 31-3A0	1	1 unit	101	0.164
					22 E	2	2	B	3TH20 22-3A0	1	1 unit	101	0.165

for screw mounting (diagonal)

3TH20 ...3...

4	4	3	2	--	40 E	4	--	C	3TH20 40-7A0	1	1 unit	101	0.161
					31 E	3	1	B	3TH20 31-7A0	1	1 unit	101	0.162
					22 E	2	2	B	3TH20 22-7A0	1	1 unit	101	0.162

DC operation - DC solenoid system

For screw and snap-on mounting onto 35 mm standard mounting rail



4	4	3	2	--	40 E	4	--	B	3TH20 40-3BB4	1	1 unit	101	0.187
					31 E	3	1	B	3TH20 31-3BB4	1	1 unit	101	0.185
					22 E	2	2	B	3TH20 22-3BB4	1	1 unit	101	0.185

for screw mounting (diagonal)

3TH20 ...7...

4	4	3	2	--	40 E	4	--	C	3TH20 40-7BB4	1	1 unit	101	0.183
					31 E	3	1	B	3TH20 31-7BB4	1	1 unit	101	0.183
					22 E	2	2	B	3TH20 31-7BB4	1	1 unit	101	0.183

Contactor relays with solder pin connectors for printed circuit boards

AC operation

For screw mounting (diagonal)



4	4	3	2	--	40 E	4	--	C	3TH20 40-6A0	1	1 unit	101	0.162
					31 E	3	1	B	3TH20 31-6A0	1	1 unit	101	0.162
					22 E	2	2	C	3TH20 22-6A0	1	1 unit	101	0.162

DC operation - DC solenoid system

For screw mounting (diagonal)

3TH20..-6...

4	4	3	2	--	40 E	4	--	C	3TH20 40-6BB4	1	1 unit	101	0.184
					31 E	3	1	B	3TH20 31-6BB4	1	1 unit	101	0.185
					22 E	2	2	B	3TH20 22-6BB4	1	1 unit	101	0.187

Contactor relays with permanently mounted auxiliary switch blocks with screw terminals, width 45 mm - for screw and snap-on mounting onto 35 mm standard mounting rail

AC operation



8	4	3	2	--	80 E	8	0	C	3TH22 80-0A0	1	1 unit	101	0.234
					71 E	7	1	C	3TH22 71-0A0	1	1 unit	101	0.233
					62 E	6	2	C	3TH22 62-0A0	1	1 unit	101	0.235
					53 E	5	3	C	3TH22 53-0A0	1	1 unit	101	0.234
					44 E	4	4	C	3TH22 44-0A0	1	1 unit	101	0.234

DC operation - DC solenoid system

8	4	3	2	--	80 E	8	0	C	3TH22 80-0BB4	1	1 unit	101	0.255
					71 E	7	1	C	3TH22 71-0BB4	1	1 unit	101	0.256
					62 E	6	2	C	3TH22 62-0BB4	1	1 unit	101	0.258
					53 E	5	3	C	3TH22 53-0BB4	1	1 unit	101	0.255
					44 E	4	4	C	3TH22 44-0BB4	1	1 unit	101	0.257

3TH22..-0A..

For accessories, see page 3/140.

* You can order this quantity or a multiple thereof.

3RH, 3TH Contactor Relays

3TH2 contactor relays, 4- and 8-pole

Contacts	Rated operational current I_e /AC-15/AC-14 at	Contacts	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	230/ 400/ 500 V 690/ 220 V 380 V	Ident. No. Version acc. to EN 50011							
Number	A A A A								kg
			NO NC						

Latched contactor relays with screw terminals -
for screw and snap-on mounting onto 35 mm standard mounting rail



AC operation

4	4	3	2	1	40 E	4	--	C	3TH27 40-0AP0	1	1 unit	101	0.350
					31 E	3	1	B	3TH27 31-0AP0	1	1 unit	101	0.350
					22 E	2	2	B	3TH27 22-0AP0	1	1 unit	101	0.345

DC operation · DC solenoid system

4	4	3	2	1	40 E	4	--	B	3TH27 40-0BB4	1	1 unit	101	0.396
					31 E	3	1	B	3TH27 31-0BB4	1	1 unit	101	0.401
					22 E	2	2	B	3TH27 22-0BB4	1	1 unit	101	0.399

3TH27

For accessories, see page 3/140.

Contactor	Type	3TH20 ...0...
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Rated control supply voltages
(the 10th and 11th position of the order number must be changed)

AC operation

Coils for AC 50 and 60 Hz
Rated control supply voltage U_s

Coils for AC 50 Hz

50 Hz V AC	60 Hz V AC	
24	29	B0
110	132	F0
230/220	276	P0 ¹⁾

DC operation

Rated control supply voltage U_s

V DC	
24	B4
110	F4
220	M4

Contactor	Type	3TH20 ...-3..., 3TH20 ...-6..., 3TH20 ...-7..., 3TH22, 3TH27
-----------	------	---

Rated control supply voltages
(the 10th and 11th position of the order number must be changed)

AC operation

Coils for AC 50 and 60 Hz
Rated control supply voltage U_s

Coils for AC 50 Hz

50 Hz V AC	60 Hz V AC	
230/220	276	P0 ¹⁾

DC operation

Rated control supply voltage U_s

V DC	
24	B4

1) Operating range at 220 V or 380 V:
0.85 to 1.15 x U_s ; lower operating range limit according to IEC 60947.

Please inquire about further voltages.

3RH, 3TH Contactor Relays

3RH11 coupling relays for switching auxiliary circuits, 4-pole

Application

DC operation

IEC 60947 and EN 60947 (VDE 0660)

The 3RH11 coupling relays for switching auxiliary circuits are tailored to the special requirements of working with electronic controls.

The 3RH11 coupling relays cannot be extended with auxiliary switch blocks.

Selection and ordering data

DC operation

Screw terminals

Low power consumption

Extended operating range of the coils

Integrated coil circuit



3RH11 ...-1.B40

Surge suppressors	Rated operational current I_{op} /AC-15/AC-14 at 230 V	Auxiliary contacts	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	A	Ident. No. acc. to EN 50011	Version 	Order No.	Price per PU			kg

For screw and snap-on mounting onto 35 mm standard mounting rail

• Size S00

Terminal designations according to EN 50011

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25 x U_s**

Power consumption of the coils **2.3 W** at 24 V (no auxiliary switch blocks can be mounted)

Diode, varistor or RC element attachable	6	40 E	4	--	▶	3RH11 40-1HB40	1	1 unit	101	0.258
		31 E	3	1	▶	3RH11 31-1HB40	1	1 unit	101	0.258
		22 E	2	2	▶	3RH11 22-1HB40	1	1 unit	101	0.259
Built-in diode	6	40 E	4	--	▶	3RH11 40-1JB40	1	1 unit	101	0.258
		31 E	3	1	▶	3RH11 31-1JB40	1	1 unit	101	0.259
		22 E	2	2	▶	3RH11 22-1JB40	1	1 unit	101	0.260
Built-in varistor	6	40 E	4	--	▶	3RH11 40-1KB40	1	1 unit	101	0.259
		31 E	3	1	▶	3RH11 31-1KB40	1	1 unit	101	0.259
		22 E	2	2	▶	3RH11 22-1KB40	1	1 unit	101	0.259

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.85 to 1.85 x U_s**

Power consumption of the coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)

Diode, varistor or RC element attachable	6	40 E	4	--	B	3RH11 40-1MB40-OKT0	1	1 unit	101	0.259
		31 E	3	1	B	3RH11 31-1MB40-OKT0	1	1 unit	101	0.259
		22 E	2	2	A	3RH11 22-1MB40-OKT0	1	1 unit	101	0.262
Built-in diode	6	40 E	4	--	B	3RH11 40-1VB40	1	1 unit	101	0.260
		31 E	3	1	A	3RH11 31-1VB40	1	1 unit	101	0.260
		22 E	2	2	B	3RH11 22-1VB40	1	1 unit	101	0.261
Built-in varistor	6	40 E	4	--	B	3RH11 40-1WB40	1	1 unit	101	0.260
		31 E	3	1	A	3RH11 31-1WB40	1	1 unit	101	0.260
		22 E	2	2	A	3RH11 22-1WB40	1	1 unit	101	0.261

For accessories, see page 3/110 and 3/113.



3RH, 3TH Contactor Relays

3RH11 coupling relays for switching auxiliary circuits, 4-pole

DC operation
Cage Clamp terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit



3RH11 ...2.B40

Surge suppressors	Rated operational current I_{op} AC-15/AC-14 at 230 V	Auxiliary contacts	DT	Cage Clamp terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	A	Ident. No. acc. to EN 50011	Version   NO NC	Order No. Price per PU				kg

For screw and snap-on mounting onto 35 mm standard mounting rail

• **Size S00**

Terminal designations according to EN 50011

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25 x U_s**

Power consumption of the coils **2.3 W** at 24 V (no auxiliary switch blocks can be mounted)

Diode, varistor or RC element attachable	6	40 E	4	--	B	3RH11 40-2HB40	1	1 unit	101	0.254
		31 E	3	1	B	3RH11 31-2HB40	1	1 unit	101	0.253
		22 E	2	2	▶	3RH11 22-2HB40	1	1 unit	101	0.255
Built-in diode	6	40 E	4	--	B	3RH11 40-2JB40	1	1 unit	101	0.256
		31 E	3	1	▶	3RH11 31-2JB40	1	1 unit	101	0.256
		22 E	2	2	▶	3RH11 22-2JB40	1	1 unit	101	0.255
Built-in varistor	6	40 E	4	--	▶	3RH11 40-2KB40	1	1 unit	101	0.256
		31 E	3	1	▶	3RH11 31-2KB40	1	1 unit	101	0.254
		22 E	2	2	▶	3RH11 22-2KB40	1	1 unit	101	0.255

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.85 to 1.85 x U_s**

Power consumption of the coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)

Diode, varistor or RC element attachable	6	40 E	4	--	B	3RH11 40-2MB40-OKT0	1	1 unit	101	0.255
		31 E	3	1	B	3RH11 31-2MB40-OKT0	1	1 unit	101	0.255
		22 E	2	2	B	3RH11 22-2MB40-OKT0	1	1 unit	101	0.256
Built-in diode	6	40 E	4	--	B	3RH11 40-2VB40	1	1 unit	101	0.256
		31 E	3	1	B	3RH11 31-2VB40	1	1 unit	101	0.256
		22 E	2	2	B	3RH11 22-2VB40	1	1 unit	101	0.256
Built-in varistor	6	40 E	4	--	B	3RH11 40-2WB40	1	1 unit	101	0.255
		31 E	3	1	B	3RH11 31-2WB40	1	1 unit	101	0.256
		22 E	2	2	B	3RH11 22-2WB40	1	1 unit	101	0.255

For accessories, see page 3/110 and 3/113.

3RT Coupling Relays

3RT10 coupling relays (interface), for switching motors, 3-pole, 3 ... 11 kW

Application

DC operation

IEC 60947, EN 60947 (VDE 0660)

The 3RT10 coupling relays for switching motors are tailored to the special requirements of working with electronic controls.

The 3RT10 1 coupling relays cannot be extended with auxiliary switch blocks.

Two single-pole auxiliary switch blocks can be fitted to the 3RT10 2 coupling relays.

Selection and ordering data

DC operation

Screw terminals

Low power consumption

Extended operating range of the coils

Integrated coil circuit

Surge suppressors	Rated data AC-2 and AC-3, T_U : up to 60 °C	Auxiliary contacts	DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Operational current I_e up to 400 V A	Rating of induction motors at 50 Hz and 400 V kW	Ident. No.	Version No.	Order No.	Price per PU			kg
			NO	NC					

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S00

Terminal designations according to EN 50012

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25** x U_s

Power consumption of the coils **2.3 W** at 24 V (no auxiliary switch blocks can be mounted)



3RT10 1.-1HB4.

Diode, varistor or RC element, attachable	7	3	10	1	--	▶	3RT10 15-1HB41	1	1 unit	101	0.259
			01	--	1	▶	3RT10 15-1HB42	1	1 unit	101	0.258
Built-in diode	7	3	10	1	--	▶	3RT10 15-1JB41	1	1 unit	101	0.259
			01	--	1	▶	3RT10 15-1JB42	1	1 unit	101	0.261
Built-in varistor	7	3	10	1	--	▶	3RT10 15-1KB41	1	1 unit	101	0.261
			01	--	1	▶	3RT10 15-1KB42	1	1 unit	101	0.259
Diode, varistor or RC element, attachable	9	4	10	1	--	▶	3RT10 16-1HB41	1	1 unit	101	0.258
			01	--	1	▶	3RT10 16-1HB42	1	1 unit	101	0.260
Built-in diode	9	4	10	1	--	▶	3RT10 16-1JB41	1	1 unit	101	0.261
			01	--	1	▶	3RT10 16-1JB42	1	1 unit	101	0.261
Built-in varistor	9	4	10	1	--	▶	3RT10 16-1KB41	1	1 unit	101	0.260
			01	--	1	▶	3RT10 16-1KB42	1	1 unit	101	0.260
Diode, varistor or RC element, attachable	12	5.5	10	1	--	▶	3RT10 17-1HB41	1	1 unit	101	0.260
			01	--	1	▶	3RT10 17-1HB42	1	1 unit	101	0.260
Built-in diode	12	5.5	10	1	--	▶	3RT10 17-1JB41	1	1 unit	101	0.258
			01	--	1	▶	3RT10 17-1JB42	1	1 unit	101	0.258
Built-in varistor	12	5.5	10	1	--	▶	3RT10 17-1KB41	1	1 unit	101	0.261
			01	--	1	▶	3RT10 17-1KB42	1	1 unit	101	0.261

For accessories, see page 3/119.

3RT Coupling Relays

**3RT10 coupling relays (interface),
for switching motors, 3-pole, 3 ... 11 kW**

DC operation
Cage Clamp terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit

Surge suppressors	Rated data AC-2 and AC-3, T_U : up to 60 °C		Auxiliary contacts		DT	Cage Clamp terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Operational current I_e up to 400 V A	Rating of induction motors at 50 Hz and 400 V kW	Ident. No.	Version		Order No.	Price per PU				
			NO	NC							kg

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S00



3RT10 1.-2JB4

Terminal designations according to EN 50012

Rated control supply voltage $U_c = 24$ V DC, coil operating range **0.7 to 1.25 x U_c**

Power consumption of the coils **2.3 W** at 24 V (no auxiliary switch blocks can be mounted)

Diode, varistor or RC element, attachable	7	3	10	--	1	▶	3RT10 15-2HB41	1	1 unit	101	0.254
			01	1	--	▶	3RT10 15-2HB42	1	1 unit	101	0.254
Built-in diode	7	3	10	--	1	▶	3RT10 15-2JB41	1	1 unit	101	0.255
			01	1	--	▶	3RT10 15-2JB42	1	1 unit	101	0.255
Built-in varistor	7	3	10	--	1	▶	3RT10 15-2KB41	1	1 unit	101	0.257
			01	1	--	▶	3RT10 15-2KB42	1	1 unit	101	0.256
Diode, varistor or RC element, attachable	9	4	10	--	1	B	3RT10 16-2HB41	1	1 unit	101	0.254
			01	1	--	B	3RT10 16-2HB42	1	1 unit	101	0.256
Built-in diode	9	4	10	--	1	▶	3RT10 16-2JB41	1	1 unit	101	0.256
			01	1	--	▶	3RT10 16-2JB42	1	1 unit	101	0.256
Built-in varistor	9	4	10	--	1	▶	3RT10 16-2KB41	1	1 unit	101	0.255
			01	1	--	▶	3RT10 16-2KB42	1	1 unit	101	0.255
Diode, varistor or RC element, attachable	12	5.5	10	--	1	B	3RT10 17-2HB41	1	1 unit	101	0.257
			01	1	--	B	3RT10 17-2HB42	1	1 unit	101	0.253
Built-in diode	12	5.5	10	--	1	▶	3RT10 17-2JB41	1	1 unit	101	0.255
			01	1	--	▶	3RT10 17-2JB42	1	1 unit	101	0.256
Built-in varistor	12	5.5	10	--	1	▶	3RT10 17-2KB41	1	1 unit	101	0.256
			01	1	--	▶	3RT10 17-2KB42	1	1 unit	101	0.256

For accessories, see page 3/119.

3RT Coupling Relays

**3RT10 coupling relays (interface),
for switching motors, 3-pole, 3 ... 11 kW**

*DC operation
Screw terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit*

Surge suppressors	Rated data AC-2 and AC-3, T_U : up to 60 °C		Auxiliary contacts		DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Operational current I_e up to 400 V A	Rating of induction motors at 50 Hz and 400 V kW	Ident. No.	Version NO NC		Order No.	Price per PU				

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S00



3RT10 1.-1VB4.

Terminal designations according to DIN 50012

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.85 to 1.85 x U_s**

Power consumption of the coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)

Diode, varistor or RC element, attachable	7	3	10 01	1 --	-- 1	B B	3RT10 15-1MB41-0KT0 3RT10 15-1MB42-0KT0	1 1	1 unit 1 unit	101 101	0.260 0.260
Built-in diode	7	3	10 01	1 --	-- 1	B B	3RT10 15-1VB41 3RT10 15-1VB42	1 1	1 unit 1 unit	101 101	0.262 0.260
Built-in varistor	7	3	10 01	1 --	-- 1	A B	3RT10 15-1WB41 3RT10 15-1WB42	1 1	1 unit 1 unit	101 101	0.260 0.260
Diode, varistor or RC element, attachable	9	4	10 01	1 --	-- 1	B B	3RT10 16-1MB41-0KT0 3RT10 16-1MB42-0KT0	1 1	1 unit 1 unit	101 101	0.261 0.261
Built-in diode	9	4	10 01	1 --	-- 1	B B	3RT10 16-1VB41 3RT10 16-1VB42	1 1	1 unit 1 unit	101 101	0.261 0.260
Built-in varistor	9	4	10 01	1 --	-- 1	B B	3RT10 16-1WB41 3RT10 16-1WB42	1 1	1 unit 1 unit	101 101	0.260 0.260
Diode, varistor or RC element, attachable	12	5.5	10 01	1 --	-- 1	B B	3RT10 17-1MB41-0KT0 3RT10 17-1MB42-0KT0	1 1	1 unit 1 unit	101 101	0.262 0.260
Built-in diode	12	5.5	10 01	1 --	-- 1	B B	3RT10 17-1VB41 3RT10 17-1VB42	1 1	1 unit 1 unit	101 101	0.260 0.261
Built-in varistor	12	5.5	10 01	1 --	-- 1	B B	3RT10 17-1WB41 3RT10 17-1WB42	1 1	1 unit 1 unit	101 101	0.261 0.260

For accessories, see page 3/119.

* You can order this quantity or a multiple thereof.

3RT Coupling Relays

**3RT10 coupling relays (interface),
for switching motors, 3-pole, 3 ... 11 kW**

DC operation
Cage Clamp terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit

Surge suppressors	Rated data AC-2 and AC-3, T_U : up to 60 °C		Auxiliary contacts		DT	Cage Clamp terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Operational current I_e up to 400 V A	Rating of induction motors at 50 Hz and 400 V kW	Ident. No.	Version No.		Order No.	Price per PU				
			NO	NC							kg

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S00

Terminal designations according to DIN 50012

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.85 to 1.85 x U_s**

Power consumption of the coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)



3RT10 1.-2WB4.

Diode, varistor or RC element, attachable	7	3	10 01	1 --	-- 1	B B	3RT10 15-2MB41-0KT0 3RT10 15-2MB42-0KT0	1 1	1 unit 1 unit	101 101	0.255 0.257
Built-in diode	7	3	10 01	1 --	-- 1	B B	3RT10 15-2VB41 3RT10 15-2VB42	1 1	1 unit 1 unit	101 101	0.258 0.257
Built-in varistor	7	3	10 01	1 --	-- 1	B B	3RT10 15-2WB41 3RT10 15-2WB42	1 1	1 unit 1 unit	101 101	0.257 0.258
Diode, varistor or RC element, attachable	9	4	10 01	1 --	-- 1	B B	3RT10 16-2MB41-0KT0 3RT10 16-2MB42-0KT0	1 1	1 unit 1 unit	101 101	0.257 0.257
Built-in diode	9	4	10 01	1 --	-- 1	B B	3RT10 16-2VB41 3RT10 16-2VB42	1 1	1 unit 1 unit	101 101	0.258 0.255
Built-in varistor	9	4	10 01	1 --	-- 1	B B	3RT10 16-2WB41 3RT10 16-2WB42	1 1	1 unit 1 unit	101 101	0.255 0.257
Diode, varistor or RC element, attachable	12	5.5	10 01	1 --	-- 1	B B	3RT10 17-2MB41-0KT0 3RT10 17-2MB42-0KT0	1 1	1 unit 1 unit	101 101	0.256 0.250
Built-in diode	12	5.5	10 01	1 --	-- 1	B B	3RT10 17-2VB41 3RT10 17-2VB42	1 1	1 unit 1 unit	101 101	0.255 0.255
Built-in varistor	12	5.5	10 01	1 --	-- 1	B B	3RT10 17-2WB41 3RT10 17-2WB42	1 1	1 unit 1 unit	101 101	0.256 0.257

For accessories, see page 3/119.

3RT Coupling Relays

3RT10 coupling relays (interface), for switching motors, 3-pole, 3 ... 11 kW

DC operation
Screw terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit

Surge suppressors	Rated data AC-2 and AC-3, T_U : up to 60 °C		Auxiliary contacts		DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Operational current I_e up to 400 V A	Rating of induction motors at 50 Hz and 400 V kW	Ident. No.	Version		Order No.	Price per PU				
											kg

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S0

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25 x U_s**
Power consumption of the coils **4.2 W** at 24 V (2 single-pole auxiliary switch blocks can be mounted)

Varistor mounted	12	5.5	--	--	--	▶	3RT10 24-1KB40	1	1 unit	101	0.576
	17	7.5	--	--	--	▶	3RT10 25-1KB40	1	1 unit	101	0.577
	25	11	--	--	--	▶	3RT10 26-1KB40	1	1 unit	101	0.582



3RT10 2.-1KB40

For accessories, see page 3/112.

DC operation
Cage Clamp terminals
Low power consumption
Extended operating range of the coils
Integrated coil circuit

Surge suppressors	Rated data AC-2 and AC-3, T_U : up to 60 °C		Auxiliary contacts		DT	Cage Clamp terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Operational current I_e up to 400 V A	Rating of induction motors at 50 Hz and 400 V kW	Ident. No.	Version		Order No.	Price per PU				
											kg

For screw and snap-on mounting onto 35 mm standard mounting rail

Size S0

Rated control supply voltage $U_s = 24$ V DC, coil operating range **0.7 to 1.25 x U_s**
Power consumption of the coils **4.2 W** at 24 V (2 single-pole auxiliary switch blocks can be mounted)

Varistor mounted	12	5.5	--	--	--	B	▶	3RT10 24-3KB40	1	1 unit	101	0.578
	17	7.5	--	--	--	▶	▶	3RT10 25-3KB40	1	1 unit	101	0.580
	25	11	--	--	--	▶	▶	3RT10 26-3KB40	1	1 unit	101	0.581



3RT10 2.-3KB40

For accessories, see page 3/112.

3TX7, 3RS18 Coupling Relays

3TX7 Coupling Relays, Narrow Design

Relay couplers

Application

AC and DC operation

DIN VDE 0110 Part 1, DIN VDE 0435, DIN VDE 0660 and EN 50005







In the coupling links in double-decker format, the connections are arranged on two levels; the units are extremely compact. Connection method: Screw terminals or spring-loaded terminals. For test purposes, versions are available with manual O automatic switches.

The input and output coupling links differ with regard to the positioning of the terminals and the LEDs. For equipment identification purposes, each coupling link has a blank legend plate.

In accordance with the technical specifications of electronic systems, the coupling elements have a lower power consumption.

Selection and ordering data

AC and DC operation · for snap-on mounting onto 35 mm standard mounting rail

Rated control supply voltage U_s	Contacts Version		Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
AC 50/60 Hz										
V	NO	CO	mm							kg
3TX7 002 relay coupling links with screw terminals										
Output coupling links										
 3TX7 002-1....	24	1	--	11.5	▶ 3TX7 002-1AB00		1	1 unit	101	0.033
		1 ¹⁾	--		▶ 3TX7 002-1AB02		1	1 unit	101	0.032
 3TX7 002-2....	24	--	1	17.5	▶ 3TX7 002-1BB00		1	1 unit	101	0.041
	230				▶ 3TX7 002-1BF00		1	1 unit	101	0.042
	24	2 ²⁾	--	22.5	▶ 3TX7 002-1CB00		1	1 unit	101	0.055
		--	2 ^{1) 2)}		▶ 3TX7 002-1FB02		1	1 unit	101	0.055
Input coupling links										
 3TX7 003	24	1	--	11.5	▶ 3TX7 002-2AB00		1	1 unit	101	0.032
	110				▶ 3TX7 002-2AE00		1	1 unit	101	0.032
	230 ²⁾	1	--	11.5	▶ 3TX7 002-2AF00		1	1 unit	101	0.033
					▶ 3TX7 002-2AF05		1	1 unit	101	0.039
	230	--	1 ^{1) 3)}	17.5	▶ 3TX7 002-2BF02		1	1 unit	101	0.043
3TX7 003 relay coupling links with spring-loaded terminals										
Output coupling links										
 3TX7 003	24	1	--	11.5	▶ 3TX7 003-1AB00		1	1 unit	101	0.030
	24	--	1	17.5	▶ 3TX7 003-1BB00		1	1 unit	101	0.039
	24	2 ²⁾	--	22.5	▶ 3TX7 003-1CB00		1	1 unit	101	0.050
Input coupling links										
	230	1	--	11.5	A 3TX7 003-2AF00		1	1 unit	101	0.031

Note:



For coil voltages which are not listed, see SITOP power DC Power Supplies, e.g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Power Supplies".

- 1) Hard gold-plated contacts.
- 2) The same potential must be applied to the output contacts of the 2 NO/2 CO relays.
- 3) Observe max. permissible conductor length, see Technical Specifications.

3TX7, 3RS18 Coupling Relays

3TX7 Coupling Relays, Narrow Design

Relay couplers

Rated control supply voltage U_s	Contacts Version		Manual-0-automatic switch for testing purposes	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
AC 50/60 Hz											
V	NO	CO		mm							kg
3TX7 004 relay couplers with screw terminals											
Output coupling links											
24	--	1	without	6.2	▶	3TX7 004-1LB00		1	1 unit	101	0.033
230	--	1	without	6.2	▶	3TX7 004-1LF00		1	1 unit	101	0.034
	--	1	without	12.5 ¹⁾	▶	3TX7 004-1BF05		1	1 unit	101	0.057
24	--	1 ²⁾	without	6.2	▶	3TX7 004-1LB02		1	1 unit	101	0.033
24	1	--	without	6.2	▶	3TX7 004-1MB00		1	1 unit	101	0.037
230	1	--	without	6.2	▶	3TX7 004-1MF00		1	1 unit	101	0.037
24	--	1	with	12.5	▶	3TX7 004-1BB10		1	1 unit	101	0.052
Input coupling links											
24	1 ²⁾	--	without	6.2	▶	3TX7 004-2MB02		1	1 unit	101	0.037
110	1 ²⁾	--	without	6.2	▶	3TX7 004-2ME02		1	1 unit	101	0.037
230	1 ²⁾	--	without	6.2	▶	3TX7 004-2MF02		1	1 unit	101	0.038



3TX7 004-1LB00



3TX7 005-2MB02



Note:

For replacement products, see 3RS18 coupling links with industrial housing or other 3TX7 0 products.

For coil voltages which are not listed, see SITOP power DC Power Supplies, e.g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Transformers and Power Supplies".

- 1) For long conductors.
- 2) Hard gold-plated contacts.

Accessories

For coupling link	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type								kg
Connecting combs								
	3TX7 004	24 terminals, blue Width 6.2 mm	▶	3TX7 004-8AA00		1	1 unit	101 0.017
Connecting leads								
	3TX7 002, 3TX7 003, 3TX7 004, 3TX7 005	24 terminals with supply, blue	A	3TX7 004-8BA00		1	1 unit	101 0.050

* You can order this quantity or a multiple thereof.

3TX7, 3RS18 Coupling Relays

3TX7 Coupling Relays, Narrow Design

Relay couplers with plug-in design


Benefits

Advantages

- Plug-in relay with spring-loaded terminals and 6.2 mm width
- Fast exchange with permanent wiring (plug-in relay)
- The wire inlet and terminals can be reached from the front. This results in faster wiring time and wiring errors are prevented.
- Tested complete units → short mounting time
- Single relays available as components
- Linking of supply voltage and control signals with 16-pole connecting comb
- Galvanic isolation plate for isolating different voltages for neighboring units

- Device variants with hard gold-plated contacts, hence high contact reliability
- 24 V DC version also available as variant with NO contact
- Integrated reverse polarity protection and EMC arc-suppression diode
- Clearly visible functional state of the relay coupler by yellow LED
- Safe isolation according to EN 50178
- 230 V AC/DC versions available

Selection and ordering data



Rated control supply voltage U_s	Contacts Version		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	NO	CO								
V									kg	
Plug-in relays with screw terminals, 6.2 mm, complete with relay										
	24 DC	1	--	A	3TX7 014-1AM00		1	5 units	101	0.035
	24 DC	--	1	A	3TX7 014-1BM00		1	5 units	101	0.035
	24 AC/DC	--	1	A	3TX7 014-1BB00		1	5 units	101	0.035
	115 AC/DC	--	1	A	3TX7 014-1BE00		1	5 units	101	0.045
	230 AC/DC	--	1	A	3TX7 014-1BF00		1	5 units	101	0.041
Plug-in relays with screw terminals, 6.2 mm, complete with relay and hard gold-plating¹⁾										
24 DC	--	1	A	3TX7 014-1BM02		1	5 units	101	0.035	
24 AC/DC	--	1	A	3TX7 014-1BB02		1	5 units	101	0.035	
115 AC/DC	--	1	A	3TX7 014-1BE02		1	5 units	101	0.041	
230 AC/DC	--	1	A	3TX7 014-1BF02		1	5 units	101	0.035	
Plug-in relays with spring-loaded terminals, 6.2 mm, complete with relay										
24 DC	1	--	A	3TX7 015-1AM00		1	5 units	101	0.045	
24 DC	--	1	A	3TX7 015-1BM00		1	5 units	101	0.045	
24 AC/DC	--	1	A	3TX7 015-1BB00		1	5 units	101	0.045	
115 AC/DC	--	1	A	3TX7 015-1BE00		1	5 units	101	0.045	
230 AC/DC	--	1	A	3TX7 015-1BF00		1	5 units	101	0.045	
Plug-in relays with spring-loaded terminals, 6.2 mm, complete with relay and hard gold-plating¹⁾										
24 DC	--	1	A	3TX7 015-1BM02		1	5 units	101	0.045	
24 AC/DC	--	1	A	3TX7 015-1BB02		1	5 units	101	0.040	
115 AC/DC	--	1	A	3TX7 015-1BE02		1	5 units	101	0.045	
230 AC/DC	--	1	A	3TX7 015-1BF02		1	5 units	101	0.045	

1) The variants with hard gold-plated contacts feature high contact reliability (also for low currents) and are therefore especially suitable for steady-state inputs of programmable logic controllers.

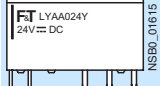
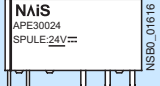
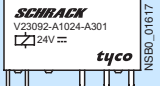
3TX7, 3RS18 Coupling Relays



3TX7 Coupling Relays, Narrow Design

Relay couplers with plug-in design

Rated control supply voltage U_s V	Used for	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Individual relay modules¹⁾, 6.2 mm, 1 changeover contact								
12 DC	Complete units 24 V AC/DC	A	3TX7 014-7BQ00		1	20 units	101	0.035
	Complete units, 24 V AC/DC, hard gold-plated	A	3TX7 014-7BQ02					0.035
24 DC	Complete units 24 V DC	A	3TX7 014-7BM00		1	20 units	101	0.035
	Complete units 24 V DC, hard gold-plated	A	3TX7 014-7BM02					0.035
60 DC	Complete units 115 V and 230 V AC/DC	A	3TX7 014-7BP00		1	20 units	101	0.035
	Complete units 115 V and 230 V AC/DC, hard gold-plated	A	3TX7 014-7BP02					0.035
Connecting combs 16-pole, blue								
	for linking the same potentials, 16-pole, current carrying capacity for infeed max. 6 A	A	3TX7 014-7AA00		1	5 units	101	0.035
Galvanic isolation plates								
	3TX7 014 and 3TX7 015	A	3TX7 014-7CE00		1	10 units	101	0.035

1) The variants with hard gold-plated contacts feature high contact reliability (also for low currents) and are therefore especially suitable for steady-state inputs of programmable logic controllers.

Selective help to assign relay single modules				Versions to be supplied		
Complete device			Single device			
3TX7 014-..		NO (13/14)	3TX7 014-..	FTR-LY..	APE..	V23092-..
3TX7 015-..	(+)A1/(-)A2	CO (11/12/14)				
..1AM00 ¹⁾	24 V DC	NO	..7BM00 ¹⁾	..CA024Y	..30024	..A1024-A301
..1BM00 ¹⁾	24 V DC	CO	..7BM00 ¹⁾	..CA024Y	..30024	..A1024-A301
..1BB00 ¹⁾	24 V AC/DC	CO	..7BQ00 ¹⁾	..CA012Y	..30012	..A1012-A301
..1BE00 ¹⁾	115 V AC/DC	CO	..7BP00 ¹⁾	--	..30060	..A1060-A301
..1BF00 ¹⁾	230 V AC/DC	CO	..7BP00 ¹⁾	--	..30060	..A1060-A301
..1BM02 ²⁾	24 V DC	CO	..7BM02 ²⁾	..CA024V	..30124	..A1024-A201
..1BB02 ²⁾	24 V AC/DC	CO	..7BQ02 ²⁾	..CA012V	..30112	..A1012-A201
..1BE02 ²⁾	115 V AC/DC	CO	..7BP02 ²⁾	--	..30160	..A1060-A201
..1BF02 ²⁾	230 V AC/DC	CO	..7BP02 ²⁾	--	..30160	..A1060-A201

1)  = AgSn0
 2)  = AgSn0+Au

* You can order this quantity or a multiple thereof.

3TX7, 3RS18 Coupling Relays

3TX7 Coupling Relays, Narrow Design

Semiconductor couplers

Overview

AC and DC operation

DIN VDE 0110 Part 1, DIN VDE 0435, DIN VDE 0660 and EN 50005 optocouplers: DIN VDE 0884, DIN VDE 0411 Part 500, IEC 61131-2 (programmable logic controllers).

In the coupling links in double-decker format, the connections are arranged on two levels; the units are extremely compact. Connection method: Screw terminals or spring-loaded terminals. For test purposes, versions are available with manual 0 automatic switches.

The input and output coupling links differ with regard to the positioning of the terminals and the LEDs. For equipment identification purposes, each coupling link has a blank legend plate.

In accordance with the technical specifications of electronic systems, the coupling elements have a lower power consumption.

Selection and ordering data

AC and DC operation · for snap-on mounting onto 35 mm standard mounting rail

Rated control supply voltage U_s	Contacts	Switching current	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
AC 50/60 Hz V	Version	A	mm							kg
3TX7 002 semiconductor couplers with screw terminals										
Output coupling links										
24 DC	1 transistor	1.8	12.5	▶	3TX7 002-3AB00		1	1 unit	101	0.033
	1 transistor	1.5	11.5	▶	3TX7 002-3AB01		1	1 unit	101	0.035
Input coupling links										
24 AC/DC	1 transistor	0.1	12.5	▶	3TX7 002-4AB00		1	1 unit	101	0.031
110 ... 240 AC	1 transistor	0.1	12.5	▶	3TX7 002-4AG00		1	1 unit	101	0.035



3TX7 002

Rated control supply voltage U_s	Switching voltage	Switching current	Manual-0-automatic switch for testing purposes	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
AC 50/60 Hz V	V	A		mm							kg
3TX7 004 semiconductor couplers with screw terminals											
Output coupling links											
24 DC	≤ 48 V DC	0.5	without	6.2	▶	3TX7 004-3AB04		1	1 unit	101	0.034
24 DC	≤ 30 V DC	1.5			▶	3TX7 004-3PB54		1	1 unit	101	0.029
24 DC	≤ 30 V DC	3	without	6.2	▶	3TX7 004-3PB74		1	1 unit	101	0.032
110 ... 230 AC/DC	≤ 30 V DC	3			▶	3TX7 004-3PG74		1	1 unit	101	0.033
24 DC	≤ 30 V DC	5	without	12.5	▶	3TX7 004-3AC04		1	1 unit	101	0.052
24 DC	≤ 30 V DC	5	with	B	▶	3TX7 004-3AC14		1	1 unit	101	0.061
24 DC	24 ... 250 V AC	2	without	12.5	▶	3TX7 004-3AC03		1	1 unit	101	0.060
Input coupling links											
AC/DC 110 ... 230	≤ 30 V DC	0.1	without	6.2	▶	3TX7 004-4PG24		1	1 unit	101	0.034



3TX7 004-3AB04

3TX7 005 semiconductor couplers with spring-loaded terminals											
Output coupling links											
24 DC	≤ 48 V DC	0.5	without	6.2	▶	3TX7 005-3AB04		1	1 unit	101	0.031
24 DC	≤ 30 V DC	1.5			▶	3TX7 005-3PB54		1	1 unit	101	0.025
24 DC	≤ 30 V DC	3	without	6.2	A	3TX7 005-3PB74		1	1 unit	101	0.027
110 ... 230 AC/DC	≤ 30 V DC	3			A	3TX7 005-3PG74		1	1 unit	101	0.027
24 DC	≤ 30 V DC	5	without	12.5	C	3TX7 005-3AC04		1	1 unit	101	0.047
24 DC	≤ 30 V DC	5	with		C	3TX7 005-3AC14		1	1 unit	101	0.051
24 DC	24 ... 250 V AC	2	without	12.5	C	3TX7 005-3AC03		1	1 unit	101	0.056
Input coupling links											
110 ... 230 AC/DC	≤ 30 V DC	0.1	without	6.2	▶	3TX7 005-4PG24		1	1 unit	101	0.031

Note:

For replacement products, see 3RS18 coupling links with industrial housing or other 3TX7 0 products.

For coil voltages which are not listed, see SITOP power DC Power Supplies, e.g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Power Supplies".



* You can order this quantity or a multiple thereof.

3TX7, 3RS18 Coupling Relays

3TX7 Coupling Relays, Narrow Design

Semiconductor couplers

Accessories

For coupling link	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Type								
Connecting combs								
	3TX7 004	24 terminals, blue Width 6.2 mm	▶	3TX7 004-8AA00		1	1 unit	101 0.017
Connecting leads								
	3TX7 002, 3TX7 003, 3TX7 004, 3TX7 005	24 terminals with supply, blue	A	3TX7 004-8BA00		1	1 unit	101 0.050

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3TX7, 3RS18 Coupling Relays

3RS18 Coupling Relays with Industrial Housing

Relay couplers

Overview

The new 3RS18 coupling relays are couplers in the well-proven standard 22.5 mm timing relay housing. The series comprises relays with 1, 2 and 3 changeover contacts with screw and spring-loaded terminals for combined voltages and wide voltage ranges.

The relay coils are protected internally with suppression diodes.

Benefits

- Wide-range voltage: One product for all voltages
- The industrial housing supports the same connection methods as the timing relay including spring-loaded terminals, 2 wires can be clamped
- Versions with electronically optimized outputs (hard gold-plated)
- Up to 3 changeover contacts with 22.5 mm width




Selection and ordering data

Rated control supply voltage U_s	Contacts Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
AC 50/60 Hz V	CO							kg
Coupling relays with industrial housing with screw terminals, 22.5 mm								
Wide-range voltage								
24 ... 240 AC/DC	2	A	3RS18 00-1BW00		1	1 unit	101	0.143
	3	C	3RS18 00-1HW00		1	1 unit	101	0.168
	3 ¹⁾	C	3RS18 00-1HW01		1	1 unit	101	0.168
Combination voltage								
24 AC/DC and 110 ... 120 AC	1	C	3RS18 00-1AQ00		1	1 unit	101	0.116
	2	C	3RS18 00-1BQ00		1	1 unit	101	0.142
	3	C	3RS18 00-1HQ00		1	1 unit	101	0.173
	3 ¹⁾	C	3RS18 00-1HQ01		1	1 unit	101	0.173
24 AC/DC and 220 ... 240 AC	1	C	3RS18 00-1AP00		1	1 unit	101	0.112
	2	C	3RS18 00-1BP00		1	1 unit	101	0.142
	3	C	3RS18 00-1HP00		1	1 unit	101	0.166
	3 ¹⁾	C	3RS18 00-1HP01		1	1 unit	101	0.170
Coupling relays with industrial housing with spring-loaded terminals, 22.5 mm								
Wide-range voltage								
24 ... 240 AC/DC	2	C	3RS18 00-2BW00		1	1 unit	101	0.128
	3	C	3RS18 00-2HW00		1	1 unit	101	0.144
	3 ¹⁾	C	3RS18 00-2HW01		1	1 unit	101	0.145
Combination voltage								
24 AC/DC and 10 ... 120 AC	1	C	3RS18 00-2AQ00		1	1 unit	101	0.104
	2	C	3RS18 00-2BQ00		1	1 unit	101	0.120
	3	C	3RS18 00-2HQ00		1	1 unit	101	0.147
	3 ¹⁾	C	3RS18 00-2HQ01		1	1 unit	101	0.147
24 AC/DC and 20 ... 240 AC	1	C	3RS18 00-2AP00		1	1 unit	101	0.104
	2	C	3RS18 00-2BP00		1	1 unit	101	0.122
	3	C	3RS18 00-2HP00		1	1 unit	101	0.143
	3 ¹⁾	C	3RS18 00-2HP01		1	1 unit	101	0.147

1) Hard gold-plated contacts.

LZX Plug-in Relays

Relay couplers

Version	Rated control supply voltage U_s V	Contacts Version	Width mm	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg		
Complete units, 11- and 14-pole, PT series												
 LZX:PT3A5L24	Complete units with socket For snap-on mounting onto 35 mm standard mounting rail Consisting of: Plug-in relay, socket, LED module (24-V-DC-LED module with freewheel diode, AC without freewheel diode), fixing/ejection bracket and label	24 DC	3	27	C	LZX:PT3A5L24		1	1 unit	101	0.099	
			4		C	LZX:PT5A5L24		1	1 unit	101	0.099	
		24 AC	3		C	LZX:PT3A5R24		1	1 unit	101	0.099	
			4		C	LZX:PT5A5R24		1	1 unit	101	0.100	
		115 AC	3	27	C	LZX:PT3A5S15		1	1 unit	101	0.099	
		4	C		LZX:PT5A5S15		1	1 unit	101	0.099		
	230 AC	3	C		LZX:PT3A5T30		1	1 unit	101	0.099		
		4	C		LZX:PT5A5T30		1	1 unit	101	0.099		
	Complete units with socket (logical isolation) For snap-on mounting onto 35 mm standard mounting rail Consisting of: Plug-in relay, socket with logical isolation, LED module (24-V-DC-LED module with freewheel diode, AC without freewheel diode), fixing/ejection bracket and label	24 DC	3	27	C	LZX:PT3B5L24		1	1 unit	101	0.106	
			4		C	LZX:PT5B5L24		1	1 unit	101	0.112	
		24 AC	4		C	LZX:PT5B5R24		1	1 unit	101	0.112	
		115 AC	3		C	LZX:PT3B5S15		1	1 unit	101	0.105	
		115 AC	4		27	C	LZX:PT5B5S15		1	1 unit	101	0.112
		230 AC	3			C	LZX:PT3B5T30		1	1 unit	101	0.106
		4	C			LZX:PT5B5T30		1	1 unit	101	0.112	
		4	C			LZX:PT5B5T30		1	1 unit	101	0.112	
Complete units, 8-pole, 5 mm pinning, RT series												
 LZX:RT4B4AT30	Complete units with socket For snap-on mounting onto 35 mm standard mounting rail Consisting of: Print relay, standard socket, LED module (24-V-LED-DC with freewheel diode, AC without freewheel diode), fixing/ejection bracket and label	24 DC	1	15.5	▶	LZX:RT3A4L24		1	1 unit	101	0.061	
			2		▶	LZX:RT4A4L24		1	1 unit	101	0.061	
		24 AC	1		C	LZX:RT3A4R24		1	1 unit	101	0.060	
			2		C	LZX:RT4A4R24		1	1 unit	101	0.060	
		115 AC	1	15.5	C	LZX:RT3A4S15		1	1 unit	101	0.060	
		2	C		LZX:RT4A4S15		1	1 unit	101	0.060		
	230 AC	1	A		LZX:RT3A4T30		1	1 unit	101	0.060		
		2	▶		LZX:RT4A4T30		1	1 unit	101	0.060		
	Complete units with socket (logical isolation) For snap-on mounting onto 35 mm standard mounting rail Consisting of: Print relay with safe isolation, socket with logical isolation, LED module (24-V-DC-LED module with freewheel diode, AC without freewheel diode), fixing/ejection bracket and label	24 DC	1	15.5	C	LZX:RT3B4L24		1	1 unit	101	0.065	
			2		A	LZX:RT4B4L24		1	1 unit	101	0.065	
		24 AC	1		C	LZX:RT3B4R24		1	1 unit	101	0.064	
			2		C	LZX:RT4B4R24		1	1 unit	101	0.064	
		115 AC	1		15.5	C	LZX:RT3B4S15		1	1 unit	101	0.064
		2	C			LZX:RT4B4S15		1	1 unit	101	0.065	
230 AC		1	C			LZX:RT3B4T30		1	1 unit	101	0.064	
		2	C			LZX:RT4B4T30		1	1 unit	101	0.064	
Complete units, 5-pole, 3.2 mm pinning, RY series												
 LZX:RY1A4L24	Complete units with socket (logical isolation) For snap-on mounting onto 35 mm standard mounting rail Consisting of: Print relays Sockets with logical isolation LED modules (24-V-DC-LED module with freewheel diode) Fixing/ejection brackets and label	24 DC	1	15.5	C	LZX:RY1A4L24		1	1 unit	101	0.048	
					C	LZX:RY213024		1	1 unit	101	0.009	
					C	LZX:RY78626		1	1 unit	101	0.035	
					▶	LZX:RPML0024		1	1 unit	101	0.003	
					C	LZX:RY16016		100	10 units	101	0.100	








Note:

Logical isolation: The terminals for the contacts and the terminals for the coil are arranged on separate levels, e.g. above for contacts and below for coil.

Logical isolation is not necessarily safe isolation (see the technical specifications of the relay types).

Safe isolation: Safe isolation prevents voltage of one circuit affecting another circuit with sufficient protection (DIN VDE 106 Part 101).

* You can order this quantity or a multiple thereof.






Version	Rated control supply voltage U_s	Contacts Version	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	V		mm							kg	
Print relays, 8- and 11-pole, 5 mm pinning, RT series											
<i>Individual modules for customer assembly</i>											
 LZX:RT314024	Print relays	24 DC	1	12.7	C	LZX:RT315024		1	1 unit	101	0.016
	• With hard gold-plating	24 AC	1	12.7	C	LZX:RT315524		1	1 unit	101	0.013
		230 AC	1	12.7	C	LZX:RT315730		1	1 unit	101	0.015
		Print relays	24 DC	1	12.7	▶	LZX:RT314024		1	1 unit	101
		24 DC	2	12.7	▶	LZX:RT424024		1	1 unit	101	0.015
		24 AC	1	12.7	C	LZX:RT314524		1	1 unit	101	0.007
		24 AC	2	12.7	▶	LZX:RT424524		1	1 unit	101	0.014
		115 AC	1	12.7	C	LZX:RT314615		1	1 unit	101	0.013
		115 AC	2	12.7	▶	LZX:RT424615		1	1 unit	101	0.012
		230 AC	1	12.7	▶	LZX:RT314730		1	1 unit	101	0.007
	230 AC	2	12.7	▶	LZX:RT424730		1	1 unit	101	0.010	
 LZX:RT78625	Standard sockets for mounting onto standard mounting rail	--	--	15.5	▶	LZX:RT78625		1	1 unit	101	0.042
 LZX:RT78626	Sockets with logical isolation, for mounting onto standard mounting rail	--	--	15.5	▶	LZX:RT78626		1	1 unit	101	0.047
<i>Accessories for RT</i>											
LED modules											
• Red											
 LZX:RPML0024	with freewheel diode	24 DC	--	15.5	▶	LZX:RPML0024		1	1 unit	101	0.003
	without freewheel diode	24 AC/DC	--		▶	LZX:RPML0524		1	1 unit	101	0.003
		110 ... 230 AC/DC	--			▶	LZX:RPML0730		1	1 unit	101
• Green											
 LZX:RY16016	with freewheel diode	24 DC	--	15.5	▶	LZX:RPMG0024		1	1 unit	101	0.003
	without freewheel diode	24 AC/DC	--		C	LZX:RPMG0524		1	1 unit	101	0.003
		110 ... 230 AC/DC	--			▶	LZX:RPMG0730		1	1 unit	101
 LZX:RY16040	Fixing/ejection brackets	--	--		C	LZX:RY16016		100	10 units	101	0.100
	Labels	--	--	15.5	▶	LZX:PT16040		100	20 units	101	0.100
	RC elements	24 ... 48 AC	--	15.5	C	LZX:RPMU0548		1	1 unit	101	0.004
		110 ... 230 AC	--		▶	LZX:RPMU0730		1	1 unit	101	0.003
	Freewheel diodes with connection to A1	6 ... 230 DC	--	15.5	▶	LZX:RPMT00A0		1	1 unit	101	0.002
Print relays, 5-pole, RY series											
<i>Individual modules for customer assembly</i>											
 LZX:RY78626	Print relays	24 DC	1	10.7	C	LZX:RY213024		1	1 unit	101	0.009
	Label on relay: RY213024, RY613024 or JS24N-K										
	Sockets with logical isolation, for mounting onto standard mounting rail	--	--	15.5	C	LZX:RY78626		1	1 unit	101	0.035
	Fixing/ejection brackets	--	--		C	LZX:RY16016		100	10 units	101	0.100

Note



For coil voltages which are not listed, see SITOP power DC Power Supplies, e.g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Power Supplies".

LZX Plug-in Relays

Relay couplers



Version	Rated control supply voltage U_s	Contacts Version	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.			
	V		mm							kg			
Industrial relays, 8-, 11-, and 14-pole, PT series													
<i>Individual modules for customer assembly</i>													
Mini industrial relays													
 LZX:PT570024  LZX:PT78702	<ul style="list-style-type: none"> With test bracket and mechanical contact position indicator, without LED¹⁾ 	24 DC	2	22.5	▶	LZX:PT270024		1	1 unit	101	0.030		
				3		▶	LZX:PT370024		1	1 unit	101	0.031	
				4		▶	LZX:PT570024		1	1 unit	101	0.031	
		24 AC		2	22.5	C	LZX:PT270524		1	1 unit	101	0.030	
				3		A	LZX:PT370524		1	1 unit	101	0.031	
				4		▶	LZX:PT570524		1	1 unit	101	0.031	
		115 AC		2	22.5	C	LZX:PT270615		1	1 unit	101	0.028	
				3		A	LZX:PT370615		1	1 unit	101	0.030	
				4		▶	LZX:PT570615		1	1 unit	101	0.030	
		230 AC		2	22.5	▶	LZX:PT270730		1	1 unit	101	0.029	
				3		▶	LZX:PT370730		1	1 unit	101	0.030	
				4		▶	LZX:PT570730		1	1 unit	101	0.030	
	<ul style="list-style-type: none"> With hard gold-plating 	24 DC	4	22.5	▶	LZX:PT580024		1	1 unit	101	0.031		
			230 AC			▶	LZX:PT580730		1	1 unit	101	0.031	
	<ul style="list-style-type: none"> Without test bracket 	24 DC	4	22.5	C	LZX:PT520024		1	1 unit	101	0.031		
			24 AC			C	LZX:PT520524		1	1 unit	101	0.032	
			230 AC			C	LZX:PT520730		1	1 unit	101	0.031	
	Sockets for mounting onto standard mounting rail	--	--	27	▶	LZX:PT78702		1	1 unit	101	0.051		
					▶	LZX:PT78703		1	1 unit	101	0.062		
					▶	LZX:PT78704		1	1 unit	101	0.063		
<i>Accessories for PT</i>													
LED modules													
 LZX:RPML0024	<ul style="list-style-type: none"> Red 	with freewheel diode	24 DC	--	12.5	▶	LZX:RPML0024		1	1 unit	101	0.003	
			without freewheel diode	24 AC/DC			▶	LZX:RPML0524		1	1 unit	101	0.003
				110 ... 230 AC/DC			▶	LZX:RPML0730		1	1 unit	101	0.003
 LZX:PT16016	<ul style="list-style-type: none"> Green 	with freewheel diode	24 DC	--	12.5	▶	LZX:RPMG0024		1	1 unit	101	0.003	
			without freewheel diode	24 AC			C	LZX:RPMG0524		1	1 unit	101	0.003
				110 ... 230 AC/DC			▶	LZX:RPMG0730		1	1 unit	101	0.003
	Fixing/ejection brackets	--	--	26	▶	LZX:PT16016		100	10 units	101	0.100		
	Labels	--	--	26	▶	LZX:PT16040		100	10 units	101	0.100		
 LZX:PT16040	RC elements	24 ... 48 AC	--	26	C	LZX:RPMU0548		1	1 unit	101	0.004		
			110 ... 230 AC			▶	LZX:RPMU0730		1	1 unit	101	0.003	
	Freewheel diodes with connection to A1	6 ... 230 DC	--	26	▶	LZX:RPMT00A0		1	1 unit	101	0.002		

for PT relays²⁾

 LZX:PT78802	Logical sockets	with logical arrangement of the contacts									
		2 CO contacts			C	LZX:PT78802		1	1 unit	101	0.063
		3 CO contacts			C	LZX:PT78803		1	1 unit	101	0.070
		4 CO contacts			C	LZX:PT78804		1	1 unit	101	0.075
 LZX:PT78604	Sockets with top slide , pinning 3.5 mm	2 different conductor cross-sections can be connected, without LEDs									
		2 CO contacts			C	LZX:PT78602		1	1 unit	101	0.043
		4 CO contacts			C	LZX:PT78604		1	1 unit	101	0.051

1) The test bracket is designed to be non-latching. If the test bracket is pressed further until 90° has been reached, two small lugs break off and the test bracket can be latched in position.

2) Accessories for LZX:RPM LED modules and LZX:PT16016 fixing/ejection brackets cannot be used with these sockets.

Version	Rated control supply voltage U_s	Contacts Version	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	V		mm							kg	
Industrial relays, 11-pole, MT series											
<i>Individual modules for customer assembly</i>											
Industrial relays with test bracket											
	without LED	24 DC	3	35.5	A	LZX:MT321024		1	1 unit	101	0.088
	with LED				▶	LZX:MT323024		1	1 unit	101	0.088
LZX:MT326024	without LED	24 AC	3	35.5	A	LZX:MT326024		1	1 unit	101	0.089
	with LED				C	LZX:MT328024		1	1 unit	101	0.089
	without LED	115 AC	3	35.5	C	LZX:MT326115		1	1 unit	101	0.087
	with LED				C	LZX:MT328115		1	1 unit	101	0.088
LZX:MT78750	without LED	230 AC	3	35.5	A	LZX:MT326230		1	1 unit	101	0.089
	with LED				A	LZX:MT328230		1	1 unit	101	0.089
Sockets for mounting onto standard mounting rail		--	--	38	▶	LZX:MT78750		1	1 unit	101	0.063
Fixing brackets		--	--		▶	LZX:MT28800		1	1 unit	101	0.001

Note:

For coil voltages which are not listed, see SITOP power DC Power Supplies, e.g. 6EP1 331-2AB10 and 6EP1 731-2AB00, in "Power Supplies".

3TG10 Power Relays/Miniature Contactors

4-pole, 4 kW

Overview

Version

The 3TG10 power relays/miniature contactors with 4 main contacts are available with 6.3 mm ... 0.8 mm screw terminals or flat connectors. The versions with screw terminals are climate-proof and finger-safe in accordance with DIN VDE 0106 Part 100.

The 3TG10 power relays/miniature contactors are small. Their width is 36 mm.

Application

Because they are hum-free they are suitable for use in household appliances and distribution boards in office and residential areas. They can also be used for applications where there is little space such as air conditioners, heating systems, pumps, and fans, i.e. for simple electrical controls.

AC and DC operation

EN 60947-4-1 (VDE 0660 Part 102)

Surge suppression

The 3TG10 power relays/miniature contactors have an integrated protective circuit against opening surges.

Overload and short-circuit protection

The 3UA7 overload relay can be used for overload protection. This applies to mounting onto contactors and to stand-alone installation.

Information about short-circuit protection by means of contactors can be found in the Technical specifications.

Selection and ordering data

Rated data		AC-2 and AC-3		Main contacts		Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Utilization category	AC - 1	Switching of resistive loads at 55 °C	Operating current I_e up to 400 V	Power of three-phase loads at 50 Hz and 400 V	Operating current I_e up to 400 V ¹⁾	Power of three-phase loads at 50 Hz and 400 V	Version						
A	kW	A	kW	NO	NC	V							kg

With screw terminals, 4-pole
For screw and snap-on mounting onto 35 mm standard mounting rail - hum-free



AC operation, 45 ... 450 Hz

20	13	8.4	4	4	--	24	▶	3TG10 10-0AC2		1	1 unit	101	0.157
						110	▶	3TG10 10-0AG2		1	1 unit	101	0.158
						230	▶	3TG10 10-0AL2		1	1 unit	101	0.156
				3	1	24	▶	3TG10 01-0AC2		1	1 unit	101	0.157
						110	▶	3TG10 01-0AG2		1	1 unit	101	0.158
						230	▶	3TG10 01-0AL2		1	1 unit	101	0.157

DC operation

20	13	8.4	4	4	--	24	▶	3TG10 10-0BB4		1	1 unit	101	0.157
				3	1	24	▶	3TG10 01-0BB4		1	1 unit	101	0.157

3TG10 ...0...

With 6.3 × 0.8 mm flat connectors, 4-pole
For screw and snap-on mounting onto 35 mm standard mounting rail - hum-free



AC operation, 45 ... 450 Hz

16	10	8.4	4	4	--	24	D	3TG10 10-1AC2		1	1 unit	101	0.146
						110	D	3TG10 10-1AG2		1	1 unit	101	0.146
						230	▶	3TG10 10-1AL2		1	1 unit	101	0.145
				3	1	24	D	3TG10 01-1AC2		1	1 unit	101	0.147
						110	D	3TG10 01-1AG2		1	1 unit	101	0.146
						230	▶	3TG10 01-1AL2		1	1 unit	101	0.144

DC operation

16	10	8.4	4	4	--	24	D	3TG10 10-1BB4		1	1 unit	101	0.146
		8.4	4	3	1	24	D	3TG10 01-1BB4		1	1 unit	101	0.146

3TG10 ...1...

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

Overview

Snap-on auxiliary contact blocks

The auxiliary switch blocks and the maximum number of blocks that can be mounted are described in "Motor Contactors" and "Contactor Relays".

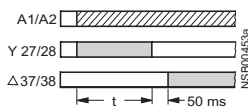
Solid-state time-delay auxiliary switch block

The timer module, which is available in "ON-delay" and "OFF-delay" versions, allows time-delayed functions up to 100 s (3 distinct delay ranges).

It contains a relay with one NO contact and one NC contact; depending on the version, the relay is switched either after an ON-delay or after an OFF-delay.

The timer module with "WYE-DELTA FUNCTION" is equipped with one delayed and one instantaneous NO contact, with an interval time of 50 ms between the two. The delay time of the NO contact can be set between 1.5 s and 30 s.

Wye-delta function:



The contactor on which the solid-state, time-delay auxiliary switch block is mounted operates without a delay.

Size S00

The solid-state, time-delay auxiliary switch block is fitted onto the front of the contactor. The timer module is supplied with power directly by plug-in contacts through the coil terminals of the contactor, in parallel with A1/A2. The timing function is activated by closing the contactor on which the auxiliary switch block is mounted. The OFF-delay variant operates without an auxiliary power supply; minimum on-time: 200 ms.

A varistor is integrated in the timer module in order to damp opening surges in the contactor coil.

The solid-state, time-delay auxiliary switch block cannot be mounted on size S00 coupling relays.

Sizes S0 to S12

The solid-state, time-delay auxiliary switch block is fitted onto the front of the contactor.

The timer module is supplied with power through two terminals (A1/A2); the time delay of the auxiliary switch block can be activated either by a parallel link to any contactor coil or by any power source.

The OFF-delay variant operates without an auxiliary power supply; minimum on-time: 200 ms.

A single-pole auxiliary switch block can be snapped onto the front of the contactor in addition to the timer module.

The timer module has no integrated components for damping opening surges.

Solid-state time-delay block with semiconductor output

The timer module, which is available in "ON-delay" and "OFF-delay with auxiliary voltage" versions, allows time-delayed functions up to 100 s (3 distinct delay ranges). Contactors fitted with a time-delay block close or open after a delay according to the set time.

The ON-delay variant of the timing relay is connected in series with the contactor coil; terminal A1 of this coil must not be connected.

With the OFF-delay variant of the timing relay, the contactor coil is contacted directly through the relay; terminals A1 and A2 of the contactor coil must not be connected.

The timing relays are suitable for both AC and DC operation.

Size S00

The version for size S00 contactors is fitted onto the front of the contactor (with the supply voltage switched off) and then slid into its latched position; at the same time, the timing relay is connected by means of plug-in contacts to coil terminals A1 and A2 of the contactor. Any contactor coil terminals which are not required are sealed off by means of covers on the enclosure of the time-delay block, to prevent them from being connected inadvertently.

A varistor is integrated in the timer module in order to damp opening surges in the contactor coil.

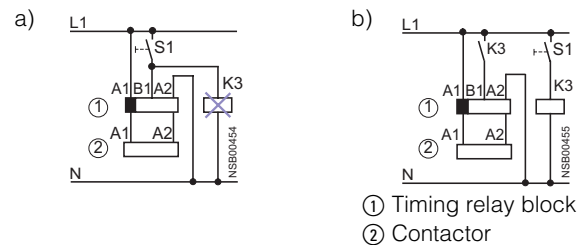
The solid-state, time-delay block cannot be mounted on size S00 coupling relays.

Sizes S0 to S3

The time-delay block for size S0 to S3 contactors is plugged into coil terminals A1 and A2 on top of each contactor; the timing relay is connected both electrically and mechanically by means of pins.

A varistor is integrated in the timer module in order to damp opening surges in the contactor coil.

Note on configuration



The activation of loads parallel to the start input is not permissible when using AC control voltage (see (a) in the circuit diagram).

The 3RT19 16-2D... / 3RT19 26-2D... OFF-delay timing relay blocks have a zero potential start input B1. This means that if there is a parallel load on terminal B1, activation can be simulated with AC voltage. In this case, the additional load (e.g. contactor K3) must be wired in accordance with (b).

OFF-delay device for size S00 to S3 contactors

AC and DC operation

IEC 60947, EN 60947

For screw and snap-on mounting onto 35 mm standard mounting rail. The OFF-delay devices have screw terminals.

The OFF-delay device prevents a contactor from dropping out unintentionally when there is a short-time voltage dip or voltage failure. It supplies a downstream, DC-operated contactor with the necessary power during a voltage dip, ensuring that the contactor does not trip. The 3RT19 16 OFF-delay devices are specifically designed for operation with the 3RT contactors and 3RH contactor relays of the SIRIUS series.

The OFF-delay device operates without external voltage on a capacitive basis, and can be energized with either AC or DC (24 V version only for DC operation). Voltage matching, which is only necessary with AC operation, is performed using a rectifier bridge.

A contactor opens after a delay when the capacitors of the contactor coil, built into the OFF-delay device, are switched in parallel. In the event of voltage failures, the capacitors are discharged via the coil and thereby delay the opening of the contactor.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

If the command devices are upstream of the OFF-delay device in the circuit, the OFF-delay takes effect with every opening operation. If the opening operation is downstream of the OFF-delay device, an OFF-delay only applies in the event of failure of the mains voltage.

Operation

In the case of the versions for rated control supply voltages of 110 V and 230 V, either AC voltage or DC voltage can be applied on the line side, whereas the variant for 24 V is designed for DC operation only.

A DC-operated contactor is connected to the output in accordance with the input voltage that is applied.

The mean value of the OFF-delay is approximately 1.5 times the specified minimum time.

Surge suppressors

- Without LED (also for Cage Clamp terminals)
Sizes S00, S0, S2, S3, S6 to S12
- With LED (also for Cage Clamp terminals)
Size S00

All 3RT1 contactors and 3RH1 contactor relays can be retrofitted with RC elements or varistors for damping opening surges in the coil. Diodes or diode assemblies (comprising noise suppression diodes and Zener diodes for rapid switch-off) can be used.

The surge suppressors are plugged onto the front of size S00 contactors. Space is provided for them next to a snap-on auxiliary switch block.

With all size S0 to S3 contactors, varistors, RC elements and diode assemblies can be plugged on directly at the coil terminals, either on the top or underneath.

The plug-in direction of the diodes and diode assemblies is determined by a coding device.

Coupling relays are supplied either without overvoltage damping or with a varistor or diode connected as standard, according to the version.

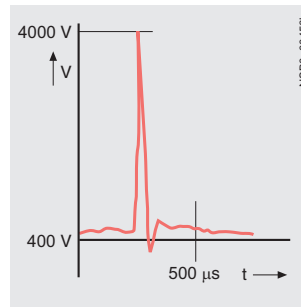
Note:

The OFF-delay times of the NO contacts and the ON-delay times of the NC contacts increase if the contactor coils are damped against voltage peaks (noise suppression diode 6 to 10 times; diode assemblies 2 to 6 times, varistor +2 to 5 ms).

Electromagnetic interference suppression module, 3-phase for size S00 contactors



A so-called counter-e.m.f. (electromotive force) is produced when motors or various inductive loads are turned off. Voltage peaks of up to 4000 V may occur as a result, with a frequency spectrum from 1 kHz to 10 MHz and a rate of voltage variation from 0.1 to 20 V/ns.



Capacitive input to various analog and digital signals makes it necessary to suppress interference in the load circuit.

Reducing contact arcing

The connection between the main conducting path and the EMC interference suppression module enables contact arcing, which is responsible for contact erosion and the majority of clicking noises, to be reduced; this in turn is conducive to an electromagnetically compatible design.

Higher operational reliability

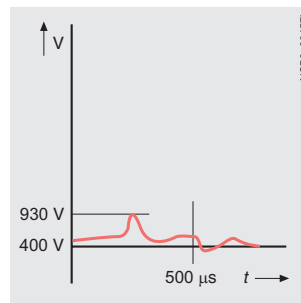
Since the EMC interference suppression module achieves a significant reduction in radio-frequency components and the voltage level in three phases, the contact endurance is also improved considerably. This makes an important contribution towards enhancing the reliability and availability of the system as a whole.

Dispensing with fine graduations

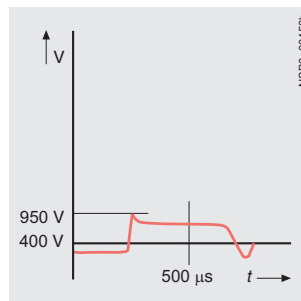
There is no need for fine graduations within each performance class, as smaller motors inherently have a higher inductance, so that one solution for all fixed-speed drives up to 5.5 kW is adequate.

Two electrical variants are available:

- The advantages of the RC circuit lie mainly in the reduction in the rate of rise and in its RF damping ability. The selected values ensure effective interference suppression over a wide range.



- The varistor circuit can absorb a high energy level and can also be used for frequencies ranging from 10 to 400 Hz (closed-loop controlled drives). There is no limiting below the knee-point voltage, however.



Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

Additional load module

- Size S00 for plugging onto the front of the contactors with and without auxiliary switch block

Coupling links for mounting on contactors of sizes S0 to S3

DC operation

IEC 60947 and EN 60947

The coupling link is suitable for use in any climate. It is finger-safe according to EN 50274. The terminal designations comply with EN 50005.

System-compatible operation with 24 DC V, operating range 17 V to 30 V.

Low power consumption in conformity with the technical specifications of the solid-state systems. A light-emitting diode indicates the circuit state.

Surge suppression

The 3RH19 24-1GP11 coupling link has an integrated surge suppressor (varistor) for the contactor coil being switched.

Mounting

The 3RH19 24-1GP11 coupling link is mounted directly on the contactor coil.

Solder pin adapters

The solder pin adapters for the size S00 contactors are available in two versions:

- Solder pin adapter for contactors with one integrated auxiliary contact
- Solder pin adapter for contactors with mounted 4-pole auxiliary switch block

Screw adapters

Plug-on adapters improve the accessibility of the screw fixing for size S0 contactors. As a result it is possible to position the screwdriver vertically even when using insulated screwdrivers or power screwdrivers.

Optionally the adapters can be rotated through 90° before mounting.

Sealable covers for sizes S00 to S12

When contactors and contactor relays are used in safety-oriented applications, it must be ensured that it is impossible to operate the contactors manually.

For SIRIUS contactors there are sealable covers available for this purpose as accessories; these prevent accidental manual operation. These are transparent molded-plastic caps with a bracket that enables the contactor to be sealed.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

Selection and ordering data



3RH19 11-1HA..
3RH19 11-1FA..



3RH19 21-1HA..



3RH19 11-1AA.



3RH19 11-1LA..

For contactors	Auxiliary contacts	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Ident. No.	Version	Order No.	Price per PU			
Type		NO NC NO NC					kg

Auxiliary switch blocks for snapping onto the front according to EN 50012

Size S00

For assembling contactors with 2, 4 and 5 auxiliary contacts

3RT10 1.-1...1, 3RT10 1.-2...1	11 E	--	1	--	--	▶	3RH19 11-1HA01	1	1 unit	101	0.035
Ident. No. 10 E	22 E	1	2	--	--	▶	3RH19 11-1HA12	1	1 unit	101	0.046
	23 E	1	3	--	--	▶	3RH19 11-1HA13	1	1 unit	101	0.051
	32 E	2	2	--	--	▶	3RH19 11-1HA22	1	1 unit	101	0.052

Sizes S0 ... S12¹⁾

4-pole

3RT10 2, 3RT1. 3 ... 3RT1. 7	31	3	1	--	--	▶	3RH19 21-1HA31	1	1 unit	101	0.074
	22	2	2	--	--	▶	3RH19 21-1HA22	1	1 unit	101	0.073
	13	1	3	--	--	▶	3RH19 21-1HA13	1	1 unit	101	0.073
	22²⁾	2	2	--	--	B	3RH19 21-1XA22-0MA0	1	1 unit	101	0.073

Auxiliary switch blocks for snapping onto the front according to EN 50005

Size S00

2 or 4-pole auxiliary switch blocks for assembling contactors with 3 and 5 auxiliary contacts

3RT1. 1, 3RH11, 3RH14	20	2	--	--	--	▶	3RH19 11-1FA20	1	1 unit	101	0.041
	11	1	1	--	--	▶	3RH19 11-1FA11	1	1 unit	101	0.041
	02	--	2	--	--	▶	3RH19 11-1FA02	1	1 unit	101	0.040
	11 U	--	--	1	1	▶	3RH19 11-1FB11	1	1 unit	101	0.040
	40	4	--	--	--	▶	3RH19 11-1FA40	1	1 unit	101	0.052
	31	3	1	--	--	▶	3RH19 11-1FA31	1	1 unit	101	0.052
	22	2	2	--	--	▶	3RH19 11-1FA22	1	1 unit	101	0.052
	22 U	--	--	2	2	▶	3RH19 11-1FC22	1	1 unit	101	0.052
	11, 11 U	1	1	1	1	▶	3RH19 11-1FB22	1	1 unit	101	0.052

1 and 2-pole auxiliary switch blocks. Cable entry from one side

• Cable entry from above

3RT1. 1, 3RH11, 3RH14	--	1	--	--	--	▶	3RH19 11-1AA10	1	1 unit	101	0.016
	--	--	1	--	--	▶	3RH19 11-1AA01	1	1 unit	101	0.016
	--	1	1	--	--	▶	3RH19 11-1LA11	1	1 unit	101	0.052
	--	2	--	--	--	▶	3RH19 11-1LA20	1	1 unit	101	0.052

• Cable entry from below

3RT1. 1, 3RH11, 3RH14	--	1	--	--	--	▶	3RH19 11-1BA10	1	1 unit	101	0.015
	--	--	1	--	--	▶	3RH19 11-1BA01	1	1 unit	101	0.016
	--	1	1	--	--	▶	3RH19 11-1MA11	1	1 unit	101	0.052
	--	2	--	--	--	▶	3RH19 11-1MA20	1	1 unit	101	0.053

For multi-unit packing and reusable packaging, see Appendix -> Ordering Notes.

1) Exception: 3RT16.

2) With location digits 5, 6, 7, 8.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays



3RH19 11-2HA .



3RH19 21-2HA .
3RH19 21-2FA..

For contactors	Auxiliary contacts	DT	Cage Clamp terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	Ident. No.	Version	Order No.	Price per PU			kg

Auxiliary switch blocks for snapping onto the front according to EN 50012

Size S00

For assembling contactors with 2, 4 and 5 auxiliary contacts

3RT10 1.-1...1,	11 E	--	1	--	--	▶	3RH19 11-2HA01	1	1 unit	101	0.040
3RT10 1.-2...1	22 E	1	2	--	--	▶	3RH19 11-2HA12	1	1 unit	101	0.052
Ident. No. 10 E	23 E	1	3	--	--	▶	3RH19 11-2HA13	1	1 unit	101	0.058
	32 E	2	2	--	--	▶	3RH19 11-2HA22	1	1 unit	101	0.059

Sizes S0 ... S12¹⁾

4-pole											
3RT10 2,	31	3	1	--	--	▶	3RH19 21-2HA31	1	1 unit	101	0.070
3RT1. 3 ... 3RT1. 7	22	2	2	--	--	▶	3RH19 21-2HA22	1	1 unit	101	0.069
	13	1	3	--	--	▶	3RH19 21-2HA13	1	1 unit	101	0.068
	22²⁾	2	2	--	--	▶	3RH19 21-2XA22-0MA0	1	1 unit	101	0.071

Auxiliary switch blocks for snapping onto the front according to EN 50005

Size S00

2 and 4-pole auxiliary switch blocks for assembling contactors with 3 and 5 auxiliary contacts

3RT1. 1,	20	2	--	--	--	▶	3RH19 11-2FA20	1	1 unit	101	0.045
3RH11,	11	1	1	--	--	▶	3RH19 11-2FA11	1	1 unit	101	0.045
3RH14	02	--	2	--	--	▶	3RH19 11-2FA02	1	1 unit	101	0.046
	11 U	--	--	1	1	A	3RH19 11-2FB11	1	1 unit	101	0.046
	40	4	--	--	--	▶	3RH19 11-2FA40	1	1 unit	101	0.059
	31	3	1	--	--	▶	3RH19 11-2FA31	1	1 unit	101	0.057
	22	2	2	--	--	▶	3RH19 11-2FA22	1	1 unit	101	0.058
	22 U	--	--	2	2	▶	3RH19 11-2FC22	1	1 unit	101	0.058
	11, 11 U	1	1	1	1	B	3RH19 11-2FB22	1	1 unit	101	0.058

For multi-unit packing and reusable packaging, see Appendix -> Ordering Notes.

1) Exception: 3RT16.

2) With location digits 5, 6, 7, 8

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays



3RH19 21-1F..



3RH19 21-1C..



3RH19 21-1LA..



3RH19 21-1MA..

For contactors	Auxiliary contacts	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	Ident. No.	Version	Order No.	Price per PU			kg

Auxiliary switch blocks for snapping onto the front according to EN 50005

Sizes S0 to S12¹⁾

4-pole auxiliary switch blocks

3RT1. 2,	40	4	--	--	--	▶	3RH19 21-1FA40	1	1 unit	101	0.074
3RT1. 3	31	3	1	--	--	▶	3RH19 21-1FA31	1	1 unit	101	0.074
...	22	2	2	--	--	▶	3RH19 21-1FA22	1	1 unit	101	0.073
3RT1. 7	04	--	4	--	--	▶	3RH19 21-1FA04	1	1 unit	101	0.072
	22 U	--	--	2	2	▶	3RH19 21-1FC22	1	1 unit	101	0.074

1-pole auxiliary switch blocks to EN 50005 and EN 50012

3RT1. 2	--	1	--	--	--	▶	3RH19 21-1CA10	1	1 unit	101	0.020
...	--	--	1	--	--	▶	3RH19 21-1CA01	1	1 unit	101	0.019
3RT1. 7	--	--	--	1	--	▶	3RH19 21-1CD10	1	1 unit	101	0.020
	--	--	--	--	1	▶	3RH19 21-1CD01	1	1 unit	101	0.019

2-pole auxiliary switch blocks with cable entry from one side

• Cable entry from above

3RT1. 2,	--	1	1	--	--	▶	3RH19 21-1LA11	1	1 unit	101	0.074
3RT1. 3	--	2	--	--	--	▶	3RH19 21-1LA20	1	1 unit	101	0.075
...	--	--	2	--	--	▶	3RH19 21-1LA02	1	1 unit	101	0.074
3RT1. 7											

• Cable entry from below

3RT1. 2,	--	1	1	--	--	▶	3RH19 21-1MA11	1	1 unit	101	0.074
3RT1. 3	--	2	--	--	--	▶	3RH19 21-1MA20	1	1 unit	101	0.076
...	--	--	2	--	--	▶	3RH19 21-1MA02	1	1 unit	101	0.073
3RT1. 7											

1) Exception: 3RT16.



2RH19 21-2F..



3RH19 21-2C..

For contactors	Auxiliary contacts	DT	Cage Clamp terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	Ident. No.	Version	Order No.	Price per PU			kg

Auxiliary switch blocks for snapping onto the front according to EN 50005

Sizes S0 to S12¹⁾

4-pole auxiliary switch blocks

3RT1. 2,	40	4	--	--	--	▶	3RH19 21-2FA40	1	1 unit	101	0.071
3RT1. 3	31	3	1	--	--	▶	3RH19 21-2FA31	1	1 unit	101	0.070
...	22	2	2	--	--	▶	3RH19 21-2FA22	1	1 unit	101	0.069
3RT1. 7	04	--	4	--	--	A	3RH19 21-2FA04	1	1 unit	101	0.068
	22 U	--	--	2	2	A	3RH19 21-2FC22	1	1 unit	101	0.069

1-pole auxiliary switch blocks to EN 50005 and EN 50012

3RT1. 2	--	1	--	--	--	▶	3RH19 21-2CA10	1	1 unit	101	0.018
...	--	--	1	--	--	▶	3RH19 21-2CA01	1	1 unit	101	0.017
3RT1. 7											

1) Exception: 3RT16.

Accessories and Spare Parts



For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

Snap-on auxiliary switch blocks according to EN 50011 for assembling contactor relays with 8 contacts.



3RH19 11-1GA..

For contactor relays	Contacts		DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Ident. No.	Version		Order No.	Price per PU				
		 NO  NC							kg

Snap-on auxiliary switch blocks according to EN 50011



For assembling contactor relays with 8 contacts

3RH11 40,	80 E	4	--	▶	3RH19 11-1GA40	1	1 unit	101	0.052
3RH14 40	71 E	3	1	▶	3RH19 11-1GA31	1	1 unit	101	0.052
(Ident. No. 40 E)	62 E	2	2	▶	3RH19 11-1GA22	1	1 unit	101	0.052
	53 E	1	3	▶	3RH19 11-1GA13	1	1 unit	101	0.052
	44 E	--	4	▶	3RH19 11-1GA04	1	1 unit	101	0.052

For multi-unit packing and reusable packaging, see Appendix -> Ordering Notes.



3RH19 11-2GA..

For contactor relays	Contacts		DT	Cage Clamp terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Ident. No.	Version		Order No.	Price per PU				
		 NO  NC							kg

Snap-on auxiliary switch blocks according to EN 50011

For assembling contactor relays with 8 contacts

3RH11 40,	80 E	4	--	▶	3RH19 11-2GA40	1	1 unit	101	0.059
3RH14 40	71 E	3	1	▶	3RH19 11-2GA31	1	1 unit	101	0.059
(Ident. No. 40 E)	62 E	2	2	▶	3RH19 11-2GA22	1	1 unit	101	0.058
	53 E	1	3	▶	3RH19 11-2GA13	1	1 unit	101	0.058
	44 E	--	4	▶	3RH19 11-2GA04	1	1 unit	101	0.058

For multi-unit packing and reusable packaging, see Appendix -> Ordering Notes.

Accessories and Spare Parts



For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays



3RH19 21-1DA11
3RH19 21-1JA11

3RH19 21-1EA..
3RH19 21-1KA..

For contactors	Auxiliary contacts	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	Version		Order No.	Price per PU			kg
	 NO  NC						

Laterally mountable auxiliary switch blocks according to EN 50012

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 2 ... 3RT1. 7	1	1	▶ 3RH19 21-1DA11	1	1 unit	101	0.047
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Sizes S3 ... S12

Second laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 4 ... 3RT1. 7	1	1	▶ 3RH19 21-1JA11	1	1 unit	101	0.047
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Laterally mountable auxiliary switch blocks according to EN 50005

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 2 ... 3RT1. 7	2	--	▶ 3RH19 21-1EA20	1	1 unit	101	0.048
	1	1	▶ 3RH19 21-1EA11	1	1 unit	101	0.048
	--	2	▶ 3RH19 21-1EA02	1	1 unit	101	0.048

Sizes S3 ... S12

Second laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 4 ... 3RT1. 7	2	--	▶ 3RH19 21-1KA20	1	1 unit	101	0.048
	1	1	▶ 3RH19 21-1KA11	1	1 unit	101	0.048
	--	2	▶ 3RH19 21-1KA02	1	1 unit	101	0.048

Accessories and Spare Parts



For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays



3RH19 21-2DA11
3RH19 21-2JA11

3RH19 21-2EA..
3RH19 21-2KA..

For contactors	Auxiliary contacts	DT	Cage Clamp terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	Version		Order No.	Price per PU			kg
	 NO  NC						

Laterally mountable auxiliary switch blocks according to EN 50012

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 2 ... 3RT1. 7	1	1	▶	3RH19 21-2DA11	1	1 unit	101	0.050
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Sizes S3 ... S12

Second laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 4 ... 3RT1. 7	1	1	B	3RH19 21-2JA11	1	1 unit	101	0.051
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Laterally mountable auxiliary switch blocks according to EN 50005

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 2 ... 3RT1. 7	2	--	▶	3RH19 21-2EA20	1	1 unit	101	0.050
	--	2	▶	3RH19 21-2EA02	1	1 unit	101	0.051

Sizes S3 ... S12





Second laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 4 ... 3RT1. 7	2	--	C	3RH19 21-2KA20	1	1 unit	101	0.049
	--	2	C	3RH19 21-2KA02	1	1 unit	101	0.050



3RH19 11-1NF..

3RH19 21-1FE22

For contactors	Version	Contacts	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	Version			Order No.	Price per PU			kg
	 NO  NO  NC  NC							

Solid-state compatible auxiliary switch blocks, for snapping onto the front, according to EN 50005

Size S00

3RT1. 1, 3RH11, 3RH14	For use in dusty atmosphere and solid-state circuits with rated operating currents I_e /AC-14 and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. No mirror contacts.	1 2 --	-- -- --	-- -- 2	▶ ▶ ▶	3RH19 11-1NF11 3RH19 11-1NF20 3RH19 11-1NF02	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.042 0.041 0.041
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Sizes S0 ... S12

3RT1. 2 ... 3RT1. 7	For use in dusty atmosphere and solid-state circuits with rated operating currents I_e /AC-14 and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts according to EN 60947-4-1, Appendix F 1 NO + 1 NC standard auxiliary switches: For technical specifications, see LV 1 T.	1	1	1	1	▶	3RH19 21-1FE22	1	1 unit	101	0.073
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* You can order this quantity or a multiple thereof.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays







3RH19 11-2NF ..



3RH19 21-2JE22



3RH19 21-2DE11
3RH19 21-2JE11

For contactors	Version	Contacts	DT	Cage Clamp terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	Version	Order No.	Price per PU					
	   							
	NO NO NC NC							kg

Solid-state compatible auxiliary switch blocks, for snapping onto the front, according to EN 50005

Size S00

3RT1. 1, 3RH11, 3RH14	For use in dusty atmosphere and solid-state circuits with rated operating currents $I_{th}/AC-14$ and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. No mirror contacts.	1 2 --	-- -- --	1 -- 2	▶ ▶ ▶	3RH19 11-2NF11 3RH19 11-2NF20 3RH19 11-2NF02	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.047 0.047 0.046
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Sizes S0 ... S12

3RT1. 2 ... 3RT1. 7	For use in dusty atmosphere and solid-state circuits with rated operating currents $I_{th}/AC-14$ and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts according to EN 60947-4-1, Appendix F 1 NO + 1 NC standard auxiliary switches: For technical specifications, see LV 1 T.	1	1 1 1	1 1 1	B	3RH19 21-2FE22	1	1 unit	101	0.070
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Solid-state compatible auxiliary switch blocks, laterally mountable, according to EN 50012

Sizes S0 ... S12

First laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 2 ... 3RT1. 7	1 NO + 1 NC solid-state compatible auxiliary switches For use in dusty atmosphere and solid-state circuits with rated operating currents $I_{th}/AC-14$ and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts according to EN 60947-4-1, Appendix F	1	-- -- --	1	▶	3RH19 21-2DE11	1	1 unit	101	0.049
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Sizes S3 ... S12

Second laterally mountable auxiliary switch block (right or left), 2-pole

3RT1. 4 ... 3RT1. 7	1 NO + 1 NC solid-state compatible auxiliary switches For use in dusty atmosphere and solid-state circuits with rated operating currents $I_{th}/AC-14$ and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts according to EN 60947-4-1, Appendix F	1	-- -- --	1	B	3RH19 21-2JE11	1	1 unit	101	0.052
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Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

For contactors	Auxiliary contacts	Rated control supply voltage $U_s^{1)}$	Time setting range t	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		V	s							kg

Solid-state time-delay auxiliary switch blocks, for snapping onto the front, terminal designations according to DIN 46199, Part 5

Size S00



3RT19 16-2....

ON-delay (varistor integrated)

3RT1. 1, 3RH11 ²⁾ 3RH14	1 NO + 1 NC	24 AC/DC ³⁾	0.05 ... 1	▶	3RT19 16-2EJ11	1	1 unit	101	0.085
			0.5 ... 10	▶	3RT19 16-2EJ21	1	1 unit	101	0.084
			5 ... 100	B	3RT19 16-2EJ31	1	1 unit	101	0.086
	100 ... 127 AC ³⁾		0.05 ... 1	C	3RT19 16-2EC11	1	1 unit	101	0.087
			0.5 ... 10	▶	3RT19 16-2EC21	1	1 unit	101	0.087
			5 ... 100	▶	3RT19 16-2EC31	1	1 unit	101	0.086
	200 ... 240 AC ³⁾		0.05 ... 1	D	3RT19 16-2ED11	1	1 unit	101	0.088
			0.5 ... 10	▶	3RT19 16-2ED21	1	1 unit	101	0.089
			5 ... 100	▶	3RT19 16-2ED31	1	1 unit	101	0.090

OFF-delay without auxiliary voltage (varistor integrated)⁴⁾

3RT1. 1, 3RH11 ²⁾ 3RH14	1 NO + 1 NC	24 AC/DC ³⁾	0.05 ... 1	▶	3RT19 16-2FJ11	1	1 unit	101	0.087
			0.5 ... 10	▶	3RT19 16-2FJ21	1	1 unit	101	0.088
			5 ... 100	▶	3RT19 16-2FJ31	1	1 unit	101	0.089
	100 ... 127 AC/DC ³⁾		0.05 ... 1	D	3RT19 16-2FK11	1	1 unit	101	0.086
			0.5 ... 10	▶	3RT19 16-2FK21	1	1 unit	101	0.087
			5 ... 100	B	3RT19 16-2FK31	1	1 unit	101	0.088
	200 ... 240 AC/DC ³⁾		0.05 ... 1	D	3RT19 16-2FL11	1	1 unit	101	0.089
			0.5 ... 10	▶	3RT19 16-2FL21	1	1 unit	101	0.089
			5 ... 100	▶	3RT19 16-2FL31	1	1 unit	101	0.089

OFF-delay with auxiliary voltage

3RT10 1 3RH11	1 CO	24 AC/DC	0.5 ... 10	B	3RT19 16-2LJ21	1	1 unit	101	0.083
		100 ... 127 AC	0.5 ... 10	B	3RT19 16-2LC21	1	1 unit	101	0.085
		200 ... 240 AC	0.5 ... 10	B	3RT19 16-2LD21	1	1 unit	101	0.085

Wye-delta function (varistor integrated)

3RT10 1 ²⁾	1 NO delayed + 1 NO, instan- taneous, dead time 50 ms	24 AC/DC ³⁾	1.5 ... 30	▶	3RT19 16-2GJ51	1	1 unit	101	0.086
		100 ... 127 AC ³⁾	1.5 ... 30	D	3RT19 16-2GC51	1	1 unit	101	0.087
		200 ... 240 AC ³⁾	1.5 ... 30	▶	3RT19 16-2GD51	1	1 unit	101	0.090

Sizes S0 ... S12



3RT19 26-2....

With ON-delay

3RT10, 3RT13, 3RT14, 3RT15	1 NO + 1 NC	24 AC/DC ⁵⁾	0.05 ... 1	D	3RT19 26-2EJ11	1	1 unit	101	0.081
			0.5 ... 10	▶	3RT19 26-2EJ21	1	1 unit	101	0.081
			5 ... 100	A	3RT19 26-2EJ31	1	1 unit	101	0.082
	100 ... 127 AC ⁵⁾		0.05 ... 1	C	3RT19 26-2EC11	1	1 unit	101	0.083
			0.5 ... 10	▶	3RT19 26-2EC21	1	1 unit	101	0.083
			5 ... 100	D	3RT19 26-2EC31	1	1 unit	101	0.083
	200 ... 240 AC ⁵⁾		0.05 ... 1	D	3RT19 26-2ED11	1	1 unit	101	0.085
			0.5 ... 10	▶	3RT19 26-2ED21	1	1 unit	101	0.085
			5 ... 100	B	3RT19 26-2ED31	1	1 unit	101	0.085

OFF-delay without auxiliary voltage⁴⁾

3RT10, 3RT13, 3RT14, 3RT15	1 NO + 1 NC	24 AC/DC ⁵⁾	0.05 ... 1	▶	3RT19 26-2FJ11	1	1 unit	101	0.085
			0.5 ... 10	▶	3RT19 26-2FJ21	1	1 unit	101	0.084
			5 ... 100	▶	3RT19 26-2FJ31	1	1 unit	101	0.085
	100 ... 127 AC/DC ⁵⁾		0.05 ... 1	D	3RT19 26-2FK11	1	1 unit	101	0.087
			0.5 ... 10	▶	3RT19 26-2FK21	1	1 unit	101	0.086
			5 ... 100	C	3RT19 26-2FK31	1	1 unit	101	0.087
	200 ... 240 AC/DC ⁵⁾		0.05 ... 1	D	3RT19 26-2FL11	1	1 unit	101	0.086
			0.5 ... 10	A	3RT19 26-2FL21	1	1 unit	101	0.084
			5 ... 100	A	3RT19 26-2FL31	1	1 unit	101	0.086

Wye-delta function

3RT10, 3RT13, 3RT14, 3RT15	1 NO, delayed + 1 NO, instan- taneous, dead time 50 ms	24 AC/DC ⁵⁾	1.5 ... 30	▶	3RT19 26-2GJ51	1	1 unit	101	0.084
		100 ... 127 AC ⁵⁾	1.5 ... 30	▶	3RT19 26-2GC51	1	1 unit	101	0.085
		200 ... 240 AC ⁵⁾	1.5 ... 30	▶	3RT19 26-2GD51	1	1 unit	101	0.088

- The AC voltages are valid for 50 Hz and 60 Hz.
- Cannot be fitted onto coupling relays.
- The terminals for the control supply voltage are connected to the contactor by the integrated spring contacts of the solid-state time auxiliary switch above it when this switch is mounted
- Setting of output contacts in as-supplied state not defined (bistable relay). Application of the control supply voltage once results in contact changeover to the correct setting.

- Terminals A1 and A2 for the control supply voltage of the solid-state time-delay auxiliary switch must be connected to the associated contactor by means of connecting leads.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

For contactors	Rated control supply voltage U_s	Time setting range t	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Type	V	s							

Solid-state time-delay blocks with semiconductor output

Size S00



3RT19 16-2C...



3RT19 16-2D...

For mounting onto the front of contactors

• ON-delay (varistor integrated)

3RT1. 1, 3RH11 ¹⁾ 3RH14	24 ... 66 AC/DC	0.05 ... 1	B	3RT19 16-2CG11	1	1 unit	101	0.051
		0.5 ... 10	▶ B	3RT19 16-2CG21	1	1 unit	101	0.051
		5 ... 100	B	3RT19 16-2CG31	1	1 unit	101	0.054
3RT19 16-2C...	90 ... 240 AC/DC	0.05 ... 1	D	3RT19 16-2CH11	1	1 unit	101	0.052
		0.5 ... 10	▶ D	3RT19 16-2CH21	1	1 unit	101	0.052
		5 ... 100	▶ B	3RT19 16-2CH31	1	1 unit	101	0.051

• OFF-delay with auxiliary voltage (varistor integrated)

3RT1. 1, 3RH11 ¹⁾ 3RH14	24 ... 66 AC/DC	0.05 ... 1	C	3RT19 16-2DG11	1	1 unit	101	0.057
		0.5 ... 10	B	3RT19 16-2DG21	1	1 unit	101	0.057
		5 ... 100	B	3RT19 16-2DG31	1	1 unit	101	0.057
3RT19 16-2D...	90 ... 240 AC/DC	0.05 ... 1	D	3RT19 16-2DH11	1	1 unit	101	0.053
		0.5 ... 10	▶ D	3RT19 16-2DH21	1	1 unit	101	0.060
		5 ... 100	B	3RT19 16-2DH31	1	1 unit	101	0.058

Sizes S0 ... S3

For mounting onto coil terminals on top of the contactors

• ON-delay (varistor integrated)



3RT19 26-2C...



3RT19 26-2D...

3RT10 2, 3RT10 3, 3RT10 4, 3RT13 ²⁾ 3RT15	24 ... 66 AC/DC	0.05 ... 1	D	3RT19 26-2CG11	1	1 unit	101	0.048
		0.5 ... 10	B	3RT19 26-2CG21	1	1 unit	101	0.049
		5 ... 100	D	3RT19 26-2CG31	1	1 unit	101	0.048
3RT19 26-2C...	90 ... 240 AC/DC	0.05 ... 1	▶ D	3RT19 26-2CH11	1	1 unit	101	0.048
		0.5 ... 10	▶ B	3RT19 26-2CH21	1	1 unit	101	0.047
		5 ... 100	▶ B	3RT19 26-2CH31	1	1 unit	101	0.048

• OFF-delay with auxiliary voltage (varistor integrated)

3RT10 2, 3RT10 3, 3RT10 4, 3RT13 ²⁾ 3RT15	24 ... 66 AC/DC	0.05 ... 1	D	3RT19 26-2DG11	1	1 unit	101	0.050
		0.5 ... 10	D	3RT19 26-2DG21	1	1 unit	101	0.051
		5 ... 100	D	3RT19 26-2DG31	1	1 unit	101	0.051
3RT19 26-2D...	90 ... 240 AC/DC	0.05 ... 1	C	3RT19 26-2DH11	1	1 unit	101	0.050
		0.5 ... 10	D	3RT19 26-2DH21	1	1 unit	101	0.050
		5 ... 100	C	3RT19 26-2DH31	1	1 unit	101	0.050

OFF-delay devices



3RT19 16-2B.01

3RT1. 1, 3RT1. 2, 3RH1 ...-1BF40	110 AC/DC		D	3RT19 16-2BK01	1	1 unit	101	0.143
	220/230 AC/DC		D	3RT19 16-2BL01	1	1 unit	101	0.144
		24 DC	▶		3RT19 16-2BE01	1	1 unit	101
3RT1. 1 ... 3RT1. 4, 3RH1 ...-1BB40								

Pneumatic delay blocks, terminal designation according to EN 50005



3RT19 26-2P...

For mounting onto the front of size S0³⁾ contactors

Auxiliary contacts 1 NO and 1 NC

• ON-delay

0.1 ... 30	C	3RT19 26-2PA01	1	1 unit	101	0.078
1 ... 60	C	3RT19 26-2PA11	1	1 unit	101	0.078

• OFF-delay

0.1 ... 30	C	3RT19 26-2PR01	1	1 unit	101	0.078
1 ... 60	C	3RT19 26-2PR11	1	1 unit	101	0.078

Mechanical latching blocks

Sizes S0 and S2



3RT19 26-3A.31

For mounting on 1 contactor, contactor remains in the energized state even after a voltage failure

3RT1. 2, 3RT1. 3	24 AC/DC	A	3RT19 26-3AB31	1	1 unit	101	0.122
	110 AC/DC	B	3RT19 26-3AF31	1	1 unit	101	0.130
	230 AC/DC	B	3RT19 26-3AP31	1	1 unit	101	0.125

- 1) Cannot be fitted onto coupling relays.
- 2) Not to be used for 3RT10 4. and 3RT13 4. contactors with $U_s \leq 42$ V.
- 3) In addition to these, no other auxiliary contacts are permitted.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

For con- tactors	Version	Rated control supply voltage U_s ¹⁾		DT	Order No. ²⁾	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		AC operation	DC operation							kg

Surge suppressors without LED (also for Cage Clamp terminals)

Size S00



3RT19 16-1DG00

For plugging onto the front side of the contactors with and without auxiliary switch blocks

For con- tactors	Version	Rated control supply voltage U_s ¹⁾		DT	Order No. ²⁾	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
3RT1., 3RH1	Varistors	24 ... 48	24 ... 70	▶	3RT19 16-1BB00		1	1 unit	101	0.008
		48 ... 127	70 ... 150	▶	3RT19 16-1BC00		1	1 unit	101	0.008
		127 ... 240	150 ... 250	A	3RT19 16-1BD00		1	1 unit	101	0.008
		240 ... 400	--	▶	3RT19 16-1BE00		1	1 unit	101	0.008
		400 ... 600	--	A	3RT19 16-1BF00		1	1 unit	101	0.009
3RT1., 3RH1	RC elements	24 ... 48	24 ... 70	▶	3RT19 16-1CB00		1	1 unit	101	0.009
		48 ... 127	70 ... 150	▶	3RT19 16-1CC00		1	1 unit	101	0.009
		127 ... 240	150 ... 250	▶	3RT19 16-1CD00		1	1 unit	101	0.009
		240 ... 400	--	▶	3RT19 16-1CE00		1	1 unit	101	0.009
		400 ... 600	--	▶	3RT19 16-1CF00		1	1 unit	101	0.009
3RT1., 3RH1	Noise suppression diodes	--	12 ... 250	▶	3RT19 16-1DG00		1	1 unit	101	0.007
3RT1., 3RH1	Diode assembly (diode and Zener diode) for DC operation	--	12 ... 250	▶	3RT19 16-1EH00		1	1 unit	101	0.008

Size S0



3RT19 26-1B0.00

For fitting onto the coil terminals at top or bottom

For con- tactors	Version	Rated control supply voltage U_s ¹⁾		DT	Order No. ²⁾	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
3RT1. 2	Varistors	24 ... 48	24 ... 70	▶	3RT19 26-1BB00		1	1 unit	101	0.023
		48 ... 127	70 ... 150	▶	3RT19 26-1BC00		1	1 unit	101	0.023
		127 ... 240	150 ... 250	▶	3RT19 26-1BD00		1	1 unit	101	0.024
		240 ... 400	--	▶	3RT19 26-1BE00		1	1 unit	101	0.028
		400 ... 600	--	B	3RT19 26-1BF00		1	1 unit	101	0.029
3RT1. 2	RC elements	24 ... 48	24 ... 70	▶	3RT19 26-1CB00		1	1 unit	101	0.023
		48 ... 127	70 ... 150	▶	3RT19 26-1CC00		1	1 unit	101	0.023
		127 ... 240	150 ... 250	▶	3RT19 26-1CD00		1	1 unit	101	0.023
		240 ... 400	--	▶	3RT19 26-1CE00		1	1 unit	101	0.024
		400 ... 600	--	B	3RT19 26-1CF00		1	1 unit	101	0.027
3RT1. 2	Diode assembly For DC operation	--	12 ... 250	▶	3RT19 26-1ER00		1	1 unit	101	0.023
	• Connectable at the top (e.g. for contactor with overload relay)	--	30 ... 250	▶	3RT19 26-1ES00		1	1 unit	101	0.024
	• Connectable at the bottom (e.g. for fuseless load feeders)	--	30 ... 250	A	3RT19 26-1TR00 3RT19 26-1TS00		1	1 unit	101	0.024 0.023

- 1) Can be used for AC operation for 50/60 Hz. Please inquire about further voltages.
- 2) For packs of 10 units, the Order No. must be supplemented with "Z" and the order code "X90".

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

For contactors	Version	Rated control supply voltage $U_s^{(1)}$		DT	Order No. ⁽²⁾	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		AC operation	DC operation							
Type		V AC	V DC							kg

Surge suppressors without LED (also for Cage Clamp terminals)

Sizes S2 and S3

For fitting onto the coil terminals at top or bottom



3RT19 26-1B0.00



3RT19 36-1C0.00

3RT1. 3, 3RT1. 4	Varistors	24 ... 48	24 ... 70	▶	3RT19 26-1BB00	1	1 unit	101	0.023
		48 ... 127	70 ... 150	▶	3RT19 26-1BC00	1	1 unit	101	0.023
		127 ... 240	150 ... 250	▶	3RT19 26-1BD00	1	1 unit	101	0.024
		240 ... 400	--	▶	3RT19 26-1BE00	1	1 unit	101	0.028
		400 ... 600	--	B	3RT19 26-1BF00	1	1 unit	101	0.029
3RT1. 3 ⁽³⁾ , 3RT1. 4	RC elements	24 ... 48	24 ... 70	▶	3RT19 36-1CB00	1	1 unit	101	0.039
		48 ... 127	70 ... 150	▶	3RT19 36-1CC00	1	1 unit	101	0.039
		127 ... 240	150 ... 250	▶	3RT19 36-1CD00	1	1 unit	101	0.039
		240 ... 400	--	▶	3RT19 36-1CE00	1	1 unit	101	0.041
		400 ... 600	--	B	3RT19 36-1CF00	1	1 unit	101	0.040
3RT1. 3, 3RT1. 4	Diode assembly For DC operation	• Connectable at the top (e.g. for contactor with overload relay)	24	▶	3RT19 36-1ER00	1	1 unit	101	0.024
			30 ... 250	▶	3RT19 36-1ES00	1	1 unit	101	0.024
		• Connectable at the bottom (e.g. for fuseless load feeders)	24	▶	3RT19 36-1TR00	1	1 unit	101	0.024
			30 ... 250	B	3RT19 36-1TS00	1	1 unit	101	0.024

Sizes S6 ... S12



3RT19 56-1C0.00

For connecting to withdrawable coil with screw terminals with contactors with
 • 3RT1. ...A... conventional operating mechanism
 • 3RT1. ...N... solid-state operating mechanism

3RT1. 5, 3RT1. 6, 3RT1. 7	RC elements	24 ... 48	24 ... 70	▶	3RT19 56-1CB00	1	1 unit	101	0.033
		48 ... 127	70 ... 150	▶	3RT19 56-1CC00	1	1 unit	101	0.032
		127 ... 240	150 ... 250	▶	3RT19 56-1CD00	1	1 unit	101	0.033
		240 ... 400	--	▶	3RT19 56-1CE00	1	1 unit	101	0.033
		400 ... 600	--	C	3RT19 56-1CF00	1	1 unit	101	0.035

1) Can be used for AC operation for 50/60 Hz. Please inquire about further voltages.

2) For packs of 10 or 5 units, the Order No. must be supplemented with "Z" and the order code "X90".

3) Mountable only at the top for 3RT1. 3/AC operating mechanism.

For contactors	Version	Rated control supply voltage $U_s^{(1)}$		Power consumption of LEDs at U_s	DT	Order No. ⁽²⁾	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		AC operation	DC operation								
Type		V AC	V DC								kg

Surge suppressors with LED (also for Cage Clamp terminals)

Size S00



3RT19 16-1L0.00

For plugging onto the front side of the contactors with and without auxiliary switch blocks


3RT1, 3RH1.	Varistors	24 ... 48	12 ... 24	10 ... 120	▶	3RT19 16-1JJ00	1	1 unit	101	0.008
		48 ... 127	24 ... 70	20 ... 470	▶	3RT19 16-1JK00	1	1 unit	101	0.008
		127 ... 240	70 ... 150	50 ... 700	▶	3RT19 16-1JL00	1	1 unit	101	0.009
		--	150 ... 250	160 ... 950	A	3RT19 16-1JP00	1	1 unit	101	0.008
3RT1, 3RH1.	Noise suppression diodes	--	24 ... 70	20 ... 470	▶	3RT19 16-1LM00	1	1 unit	101	0.007
		--	50 ... 150	50 ... 700	▶	3RT19 16-1LN00	1	1 unit	101	0.007
		--	150 ... 250	160 ... 950	▶	3RT19 16-1LP00	1	1 unit	101	0.007

1) Can be used for AC operation for 50/60 Hz. Please inquire about further voltages.

2) For packs of 10 or 5 units, the Order No. must be supplemented with "Z" and the order code "X90".

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

For contactors	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg					
EMC suppression modules; 3-phase ≤ 5.5 kW													
<i>Size S00 (for contactors with AC or DC operation)¹⁾</i>													
	3RT10 1	RC elements (3 x 220 Ω/0.22 μF) up to 400 V up to 575 V up to 690 V	▶	3RT19 16-1PA1 3RT19 16-1PA2 3RT19 16-1PA3		1	1 unit	101	0.078				
			A							1	1 unit	101	0.078
			C							1	1 unit	101	0.081
	3RT10 1	Varistors up to 400 V up to 575 V up to 690 V	A	3RT19 16-1PB1		1	1 unit	101	0.084				
			B	3RT19 16-1PB2		1	1 unit	101	0.090				
			D	3RT19 16-1PB3		1	1 unit	101	0.087				
3RT19 16-1PA													

Main conducting path surge suppression modules for 3RT12 vacuum contactors


Size S10 and S12

3RT12	Rated operating voltage $U_e = 690$ V AC	C	3RT19 66-1PV3		1	1 unit	101	0.380
	Rated operating voltage $U_e = 1000$ V AC For damping overvoltages and protecting motor windings against multiple re-ignition when switching off induction motors. For connection on the contactor feeder side (2-T1/4-T2/6-T3). For separate installation.	C	3RT19 66-1PV4		1	1 unit	101	0.775

Additional load modules


Size S00 (also for Cage Clamp terminal)

For plugging onto the front side of the contactors with and without auxiliary switch blocks²⁾

	3RT1. 1, 3RH1.	For increasing the permissible residual current and for limiting the residual voltage. Ensures safe opening of contactors with direct control via 230 V AC semiconductor outputs of SIMATIC controllers. Also performs the function of a surge damping circuit. Rated voltage: AC 50/60 Hz, 180 V to 255 V. Operating range: 0.8 to 1.1 x U_s	▶	3RT19 16-1GA00		1	1 unit	101	0.008
	3RT19 16-1GA00								

Control kits

Size S00

	3RT1. 1, 3RH1.	For manual operation of the contactor contacts for start-up and service ³⁾	A	3RK1 903-0CA00		1	1 unit	121	0.015
	3RK1 903-0CA00								

1) See also description on page 3/108.

2) For packs of 10 units, the Order No. must be supplemented with "-Z" and the order code "X90".

3) See "Load Feeders", Motor Starters and Soft Starters -> ET 200 S Motor Starters, 3RK1 903-0CA00.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

For contactors	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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Coupling links for control by PLC

Sizes S0 ... S3

For mounting onto the coil terminals of the contactors



3RH19 24-1GP11

3RT1. 2, 3RT1. 3, 3RT1. 4
 Operating range DC 17 V to 30 V
 Power consumption: 0.5 W at 24 V DC
 Permissible residual current of the electronics (with 0 signal): 2.5 mA
 Rated operating current I_{θ} : AC-15/AC-14 at 230 V: 3 A, DC-13 at 230 V: 0.1 A
 With LED for indicating circuit state.
 With integrated varistor for damping opening surges.

▶ **3RH19 24-1GP11** 1 1 unit 101 0.056

LED modules for indicating contactor operation (also for Cage Clamp terminals)

Sizes S0 ... S12¹⁾



3RT19 26-1QT00 mounted to contactor

3RT1. 2, 3RT1. 3, 3RT1. 4
 For snapping into the location hole of an identification label on the front of a contactor either directly on the contactor or on the front auxiliary switch.
 The LED module is connected to coil terminals A1 and A2 of the contactor and indicates its energized state. Yellow LED.
 Rated voltage: 24 to 240 V AC/DC, polarized.
 (1 pack = 5 units)

B **3RT19 26-1QT00** 1 5 units 101 0.007

Auxiliary terminals, 3-pole

Size S3



3RT19 46-4F

3RT10. 4. For connection of auxiliary and control cables to the main conductor connections (for one side)

B **3RT19 46-4F** 1 1 unit 101 0.033

Solder pin adapters for contactors

Size S00



3RT1. 1, 3RH11 Installation kit for soldering contactors onto a printed circuit board.
 For 1 contactor, 1 set is required.

A **3RT19 16-4KA1** 1 4 sets 101 0.030

1) For sizes S6 ... S12 the connecting leads have to be extended.

Accessories and Spare Parts For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

For contactors	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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Solder pin adapters for contactors with mounted 4-pole auxiliary switch block

Size S00



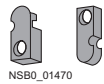
3RT1, 1, 3RH11

Installation kit for soldering contactors with an auxiliary switch block onto a printed circuit board
For 1 contactor, 1 set is required.

B **3RT19 16-4KA2** 1 4 sets 101 0.070

Screw adapters with screw or Cage Clamp terminal

Size S0



NSB0_01470

3RT1.2.

Screw adapter for easy screw fixing, 2 units required per contactor (1 pack contains 10 sets for 10 contactors)

C **3RT19 26-4P** 1 10 sets 101 0.002



3RT19 16-4BB31

3RT19 16-4BB41

3RT19 36-4BB31

3RT19 56-4BA31

Size	For contactors	Max. conductor cross-sections mm ²	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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Links for paralleling

3-pole, with connection terminal¹⁾²⁾

S00	3RT10 1	25	▶	3RT19 16-4BB31		1	1 unit	101	0.015
S0	3RT10 2.	35, stranded	▶	3RT19 26-4BB31		1	1 unit	101	0.018
S2	3RT10 3.	95	▶	3RT19 36-4BB31		1	1 unit	101	0.107

3-pole, with through hole (star jumpers)¹⁾²⁾

S3	3RT10 4. 3RT14 4.	185	▶	3RT19 46-4BB31		1	1 unit	101	0.197
S6	3RT1. 5	--	▶	3RT19 56-4BA31		1	1 unit	101	0.161
S10/S12	3RT1. 6, 3RT1. 7	--	▶	3RT19 66-4BA31		1	1 unit	101	0.533

4-pole, with connection terminal¹⁾²⁾

S00	3RT1. 1	25	C	3RT19 16-4BB41		1	1 unit	101	0.015
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1) The links for paralleling can be reduced by one pole.

2) Sizes S00 to S2: The links for paralleling are insulated.




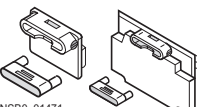
Size S3: A cover is included for touch protection. (Can only be used when the box terminal is removed.)

Sizes S6 to S12: The 3RT19 56-4EA1 (for S6) or 3RT19 66-4EA1 (for S10 and S12) cover can be used for touch protection.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays

For contactors		Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg			
Size	Type											
Box terminal blocks												
	S6	3RT1. 5 (3RB10 5)	For round and ribbon cables¹⁾									
			Up to 70 mm ² 2)	▶	3RT19 55-4G		1	1 unit	101	0.237		
			Up to 120 mm ²	▶	3RT19 56-4G		1	1 unit	101	0.270		
			Auxiliary conductor connection for box terminal	B	3TX7 500-0A		1	1 unit	101	0.008		
S10/S12	3RT1. 6, 3RT1. 7 (3RB10 6)	Up to 240 mm ² With auxiliary conductor connection	▶	3RT19 66-4G		1	1 unit	101	0.676			
3RT19 5.-4G												
Covers												
	S2	3RT10 3	Terminal covers for box terminals									
			Additional touch protection for fitting to box terminals (2 units per contactor required)		▶	3RT19 36-4EA2		1	1 unit	101	0.016	
			S3	3RT10 4, 3RT14 4		▶	3RT19 46-4EA2		1	1 unit	101	0.023
			S6	3RT1. 5	Length: 25 mm	▶	3RT19 56-4EA2		1	1 unit	101	0.028
S10/S12	3RT1. 6, 3RT1. 7	Length: 30 mm	▶	3RT19 66-4EA2		1	1 unit	101	0.038			
	S3	3RT10 4, 3RT14 4	Terminal covers for cable lug and busbar connection³⁾									
			For maintaining the voltage clearances and as touch protection if box terminal is removed ⁴⁾ (2 units per contactor required)		▶	3RT19 46-4EA1		1	1 unit	101	0.037	
			S6	3RT1. 5	Length: 100 mm	▶	3RT19 56-4EA1		1	1 unit	101	0.067
			S10/S12	3RT1. 6, 3RT1. 7	Length: 120 mm	▶	3RT19 66-4EA1		1	1 unit	101	0.124
	S6	3RT1. 5	For rail cover between contactor and 3RB10 overload relay or wiring connector for contactor assemblies									
			Length: 27 mm	▶	3RT19 56-4EA3		1	1 unit	101	0.021		
			S10/S12⁵⁾	3RT1. 6, 3RT1. 7	Length: 42 mm	▶	3RT19 66-4EA3		1	1 unit	101	0.062
Sealable covers												
	S00	3RT1. 1, 3RH1. 6 ⁶⁾	Sealable cover for preventing manual operation	A	3RT19 16-4MA10		1	5 units	101	0.005		
	S0 ... S12	3RT1. 2 ... 3RT1. 7 ⁶⁾	1 unit required per contactor	B	3RT19 26-4MA10		1	5 units	101	0.006		



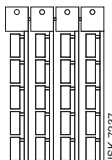
- 1) For connectable cross-sections, see Technical specifications of contactors in Catalog LV 1 T.
- 2) As standard for 3RT10 54-1 contactor (55 kW).
- 3) Also fits on contactors S6 ... S12 with box terminals.

- 4) Observe the note in Catalog LV 1 T, Technical specifications, conductor cross-sections.
- 5) The 3RT19 66-4EA3 cover is required in addition for use in contactor assemblies (reversing/wye delta).
- 6) Exception: Contactors and contactor relays auxiliary switch block mounted onto the front.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Accessories for 3RT, 3RH contactors and contactor relays



Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Insulation stop for securely holding back the conductor insulation on conductors up to 1 mm² for contactors with Cage Clamp terminals							
		Insulation stop strip can be inserted in cable entry of Cage Clamp (2 strips per contactor required, can be removed in pairs) Fits into cable entries of all SIRIUS devices with Cage Clamp terminals of cable cross-section up to 2.5 mm ² .	B	3RT19 16-4JA02	100	20 units	101 0.100
3RT19 16-4JA02							
Tools for opening Cage Clamp connection							
		For all SIRIUS devices with Cage Clamp terminals, up to max. 2.5 mm ² conductor cross-section	A	8WA2 880	1	1 unit	041 0.012
8WA2 880		Length: approx. 175 mm; 3.5 x 0.5 (green; partially isolated)	A	8WA2 803	1	1 unit	041 0.024
		Length: approx. 175 mm; 3.5 x 0.5 (green)					
Blank labeling plates							
		Device labeling plates for "SIRIUS"	D	3RT19 00-1SB10	100	816 units	101 0.239
		• 10 mm x 7 mm, pastel turquoise	C	3RT19 00-1SB20	100	340 units	101 0.220
		• 20 mm x 7 mm, pastel turquoise	D	3RT19 00-1SB60	100	3060 units	101 0.153
		Labels for sticking for "SIRIUS"	C	3RT19 00-1SD60	100	3060 units	101 0.120
		• 19 mm x 6 mm, pastel turquoise					
		• 19 mm x 6 mm, zinc/yellow					
3RT19 00-1SB10							
Computer labeling system		Obtainable from:					
For individual inscription of device identification labeling plates		murrplastik Systemtechnik GmbH					

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT,
3RH contactors and contactor relays


Selection and ordering data

For contactor		Rated control supply voltage U_s			DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		
Size	Type	50 Hz V	50/60 Hz V	60 Hz V		Order No.	Price per PU				kg		
Magnetic coils - AC operation													
	S0	3RT10 2., 3RT13 2., 3RT15 2.	24	--	--	▶	3RT19 24-5AB01		1	1 unit	101	0.092	
			42	--	--	▶	3RT19 24-5AD01		1	1 unit	101	0.092	
			48	--	--	▶	3RT19 24-5AH01		1	1 unit	101	0.092	
			110	--	--	▶	3RT19 24-5AF01		1	1 unit	101	0.090	
			230	--	--	▶	3RT19 24-5AP01		1	1 unit	101	0.090	
			400	--	--	▶	3RT19 24-5AV01		1	1 unit	101	0.092	
			--	24	--	--	▶	3RT19 24-5AC21		1	1 unit	101	0.090
				42	--	--	▶	3RT19 24-5AD21		1	1 unit	101	0.089
				48	--	--	▶	3RT19 24-5AH21		1	1 unit	101	0.091
				110	--	--	▶	3RT19 24-5AG21		1	1 unit	101	0.093
				220	--	--	▶	3RT19 24-5AN21		1	1 unit	101	0.095
				230	--	--	▶	3RT19 24-5AL21		1	1 unit	101	0.095
				110	--	120	B	3RT19 24-5AK61		1	1 unit	101	0.095
				220	--	240	B	3RT19 24-5AP61		1	1 unit	101	0.096
				--	100	110	B	3RT19 24-5AG61		1	1 unit	101	0.069
				--	200	220	B	3RT19 24-5AN61		1	1 unit	101	0.093
				--	400	440	B	3RT19 24-5AR61		1	1 unit	101	0.090
			S2	3RT10 34	24	--	--	▶	3RT19 34-5AB01		1	1 unit	101
	42			--	--	▶	3RT19 34-5AD01		1	1 unit	101	0.110	
	48			--	--	▶	3RT19 34-5AH01		1	1 unit	101	0.109	
	110			--	--	▶	3RT19 34-5AF01		1	1 unit	101	0.114	
	230			--	--	▶	3RT19 34-5AP01		1	1 unit	101	0.109	
	400			--	--	▶	3RT19 34-5AV01		1	1 unit	101	0.115	
	--			24	--	--	▶	3RT19 34-5AC21		1	1 unit	101	0.112
				42	--	--	▶	3RT19 34-5AD21		1	1 unit	101	0.112
				48	--	--	▶	3RT19 34-5AH21		1	1 unit	101	0.114
				110	--	--	▶	3RT19 34-5AG21		1	1 unit	101	0.112
				220	--	--	▶	3RT19 34-5AN21		1	1 unit	101	0.111
				230	--	--	▶	3RT19 34-5AL21		1	1 unit	101	0.114
				110	--	120	B	3RT19 34-5AK61		1	1 unit	101	0.112
				220	--	240	B	3RT19 34-5AP61		1	1 unit	101	0.115
				--	100	110	B	3RT19 34-5AG61		1	1 unit	101	0.088
				--	200	220	B	3RT19 34-5AN61		1	1 unit	101	0.115
				--	400	440	B	3RT19 34-5AR61		1	1 unit	101	0.113
	3RT10 35, 3RT10 36, 3RT13 3., 3RT15 3.			24	--	--	▶	3RT19 35-5AB01		1	1 unit	101	0.104
		42	--	--	▶	3RT19 35-5AD01		1	1 unit	101	0.106		
		48	--	--	▶	3RT19 35-5AH01		1	1 unit	101	0.108		
		110	--	--	▶	3RT19 35-5AF01		1	1 unit	101	0.110		
		230	--	--	▶	3RT19 35-5AP01		1	1 unit	101	0.108		
		400	--	--	▶	3RT19 35-5AV01		1	1 unit	101	0.112		
		--	24	--	--	▶	3RT19 35-5AC21		1	1 unit	101	0.110	
			42	--	--	▶	3RT19 35-5AD21		1	1 unit	101	0.110	
			48	--	--	▶	3RT19 35-5AH21		1	1 unit	101	0.108	
			110	--	--	▶	3RT19 35-5AG21		1	1 unit	101	0.108	
			220	--	--	▶	3RT19 35-5AN21		1	1 unit	101	0.108	
			230	--	--	▶	3RT19 35-5AL21		1	1 unit	101	0.111	
		110	--	120	B	3RT19 35-5AK61		1	1 unit	101	0.108		
		220	--	240	B	3RT19 35-5AP61		1	1 unit	101	0.107		
		--	100	110	B	3RT19 35-5AG61		1	1 unit	101	0.111		
		--	200	220	B	3RT19 35-5AN61		1	1 unit	101	0.088		
		--	400	440	C	3RT19 35-5AR61		1	1 unit	101	0.111		

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT,
3RH contactors and contactor relays



For contactor		Rated control supply voltage U_s			DT	Cage Clamp terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.			
Size	Type	50 Hz V	50/60 Hz V	60 Hz V		Order No.	Price per PU				kg			
Magnetic coils · AC operation														
	S0	3RT10 2.,	24	--	--	B	3RT19 24-5AB02		1	1 unit	101	0.093		
		3RT13 2.,	42	--	--	C	3RT19 24-5AD02		1	1 unit	101	0.089		
		3RT15 2.	48	--	--	B	3RT19 24-5AH02		1	1 unit	101	0.095		
			110	--	--	B	3RT19 24-5AF02		1	1 unit	101	0.090		
			230	--	--	B	3RT19 24-5AP02		1	1 unit	101	0.091		
			400	--	--	C	3RT19 24-5AV02		1	1 unit	101	0.092		
			--	24	--	--	B	3RT19 24-5AC22		1	1 unit	101	0.090	
			--	42	--	--	C	3RT19 24-5AD22		1	1 unit	101	0.069	
			--	48	--	--	C	3RT19 24-5AH22		1	1 unit	101	0.092	
			--	110	--	--	B	3RT19 24-5AG22		1	1 unit	101	0.092	
			--	220	--	--	B	3RT19 24-5AN22		1	1 unit	101	0.094	
			--	230	--	--	B	3RT19 24-5AL22		1	1 unit	101	0.093	
			110	--	120	--	B	3RT19 24-5AK62		1	1 unit	101	0.090	
			220	--	240	--	C	3RT19 24-5AP62		1	1 unit	101	0.094	
			--	100	110	--	C	3RT19 24-5AG62		1	1 unit	101	0.094	
			--	200	220	--	C	3RT19 24-5AN62		1	1 unit	101	0.094	
			--	400	440	--	C	3RT19 24-5AR62		1	1 unit	101	0.091	
			S2	3RT10 34	24	--	--	B	3RT19 34-5AB02		1	1 unit	101	0.105
				42	--	--	--	B	3RT19 34-5AD02		1	1 unit	101	0.087
				48	--	--	--	B	3RT19 34-5AH02		1	1 unit	101	0.095
				110	--	--	--	B	3RT19 34-5AF02		1	1 unit	101	0.116
				230	--	--	--	B	3RT19 34-5AP02		1	1 unit	101	0.107
				400	--	--	--	B	3RT19 34-5AV02		1	1 unit	101	0.115
				--	24	--	--	B	3RT19 34-5AC22		1	1 unit	101	0.109
				--	42	--	--	B	3RT19 34-5AD22		1	1 unit	101	0.109
				--	48	--	--	B	3RT19 34-5AH22		1	1 unit	101	0.113
				--	110	--	--	B	3RT19 34-5AG22		1	1 unit	101	0.109
				--	220	--	--	B	3RT19 34-5AN22		1	1 unit	101	0.125
				--	230	--	--	B	3RT19 34-5AL22		1	1 unit	101	0.112
				110	--	120	--	B	3RT19 34-5AK62		1	1 unit	101	0.110
				220	--	240	--	B	3RT19 34-5AP62		1	1 unit	101	0.117
				--	100	110	--	B	3RT19 34-5AG62		1	1 unit	101	0.083
				--	200	220	--	B	3RT19 34-5AN62		1	1 unit	101	0.083
				--	400	440	--	B	3RT19 34-5AR62		1	1 unit	101	0.109
				3RT10 35,	24	--	--	B	3RT19 35-5AB02		1	1 unit	101	0.102
				3RT10 36,	42	--	--	B	3RT19 35-5AD02		1	1 unit	101	0.088
				3RT13 3.,	48	--	--	B	3RT19 35-5AH02		1	1 unit	101	0.085
	3RT15 3.	110		--	--	B	3RT19 35-5AF02		1	1 unit	101	0.104		
		230		--	--	B	3RT19 35-5AP02		1	1 unit	101	0.104		
		400		--	--	B	3RT19 35-5AV02		1	1 unit	101	0.107		
	--	24		--	--	B	3RT19 35-5AC22		1	1 unit	101	0.106		
	--	42		--	--	B	3RT19 35-5AD22		1	1 unit	101	0.106		
	--	48		--	--	B	3RT19 35-5AH22		1	1 unit	101	0.107		
	--	110		--	--	B	3RT19 35-5AG22		1	1 unit	101	0.103		
	--	220		--	--	B	3RT19 35-5AN22		1	1 unit	101	0.105		
	--	230		--	--	B	3RT19 35-5AL22		1	1 unit	101	0.107		
	110	--		120	--	B	3RT19 35-5AK62		1	1 unit	101	0.110		
	220	--		240	--	B	3RT19 35-5AP62		1	1 unit	101	0.104		
	--	100		110	--	B	3RT19 35-5AG62		1	1 unit	101	0.083		
	--	200		220	--	B	3RT19 35-5AN62		1	1 unit	101	0.083		
	--	400		440	--	B	3RT19 35-5AR62		1	1 unit	101	0.110		

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays



Spare parts for 3RT, 3RH contactors and contactor relays

Size	Type	Rated control supply voltage U_s				DT	Screw terminals	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		AC	DC										
		50 Hz	50/60 Hz	60 Hz								kg	
V	V	V	V	V									
Magnetic coils · AC operation													
	S3	3RT10 44	24	--	--	--	B	3RT19 44-5AB01		1	1 unit	101	0.191
			42	--	--	--	B	3RT19 44-5AD01		1	1 unit	101	0.188
			48	--	--	--	B	3RT19 44-5AH01		1	1 unit	101	0.186
			110	--	--	--	B	3RT19 44-5AF01		1	1 unit	101	0.189
			230	--	--	--	B	3RT19 44-5AP01		1	1 unit	101	0.180
			400	--	--	--	B	3RT19 44-5AV01		1	1 unit	101	0.194
		--	24	--	--	B	3RT19 44-5AC21		1	1 unit	101	0.182	
		--	42	--	--	B	3RT19 44-5AD21		1	1 unit	101	0.199	
		--	48	--	--	B	3RT19 44-5AH21		1	1 unit	101	0.195	
		--	110	--	--	B	3RT19 44-5AG21		1	1 unit	101	0.184	
		--	220	--	--	B	3RT19 44-5AN21		1	1 unit	101	0.179	
		--	230	--	--	B	3RT19 44-5AL21		1	1 unit	101	0.184	
		110	--	120	--	B	3RT19 44-5AK61		1	1 unit	101	0.190	
		220	--	240	--	B	3RT19 44-5AP61		1	1 unit	101	0.193	
		--	100	110	--	B	3RT19 44-5AG61		1	1 unit	101	0.130	
		--	200	220	--	B	3RT19 44-5AN61		1	1 unit	101	0.185	
		--	400	440	--	B	3RT19 44-5AR61		1	1 unit	101	0.190	
			S3	3RT10 45, 3RT10 46, 3RT13 4., 3RT14 46, 3RT15 4.	24	--	--	--	B	3RT19 45-5AB01		1	1 unit
42	--				--	--	B	3RT19 45-5AD01		1	1 unit	101	0.166
48	--				--	--	B	3RT19 45-5AH01		1	1 unit	101	0.180
110	--				--	--	B	3RT19 45-5AF01		1	1 unit	101	0.170
230	--				--	--	B	3RT19 45-5AP01		1	1 unit	101	0.169
400	--				--	--	C	3RT19 45-5AV01		1	1 unit	101	0.173
--	24			--	--	A	3RT19 45-5AC21		1	1 unit	101	0.168	
--	42			--	--	B	3RT19 45-5AD21		1	1 unit	101	0.172	
--	48			--	--	B	3RT19 45-5AH21		1	1 unit	101	0.181	
--	110			--	--	B	3RT19 45-5AG21		1	1 unit	101	0.169	
--	220			--	--	B	3RT19 45-5AN21		1	1 unit	101	0.173	
--	230			--	--	B	3RT19 45-5AL21		1	1 unit	101	0.171	
110	--			120	--	B	3RT19 45-5AK61		1	1 unit	101	0.179	
220	--			240	--	B	3RT19 45-5AP61		1	1 unit	101	0.180	
--	100			110	--	B	3RT19 45-5AG61		1	1 unit	101	0.130	
--	200			220	--	C	3RT19 45-5AN61		1	1 unit	101	0.176	
--	400			440	--	B	3RT19 45-5AR61		1	1 unit	101	0.170	
Magnetic coils · DC operation													
S2	3RT10 3., 3RT13 3., 3RT15 3.	--	--	--	24	B	3RT19 34-5BB41		1	1 unit	101	0.600	
		--	--	--	42	B	3RT19 34-5BD41		1	1 unit	101	0.637	
		--	--	--	48	B	3RT19 34-5BW41		1	1 unit	101	0.618	
		--	--	--	60	B	3RT19 34-5BE41		1	1 unit	101	0.630	
		--	--	--	110	B	3RT19 34-5BF41		1	1 unit	101	0.605	
		--	--	--	125	B	3RT19 34-5BG41		1	1 unit	101	0.632	
	S3	3RT10 4., 3RT13 4., 3RT14 4., 3RT15 4.	--	--	--	220	B	3RT19 34-5BM41		1	1 unit	101	0.617
			--	--	--	230	B	3RT19 34-5BP41		1	1 unit	101	0.720
			--	--	--	24	B	3RT19 44-5BB41		1	1 unit	101	0.997
			--	--	--	42	C	3RT19 44-5BD41		1	1 unit	101	1.040
			--	--	--	48	B	3RT19 44-5BW41		1	1 unit	101	0.974
			--	--	--	60	B	3RT19 44-5BE41		1	1 unit	101	1.035
--	--	--	110	B	3RT19 44-5BF41		1	1 unit	101	0.970			
--	--	--	125	B	3RT19 44-5BG41		1	1 unit	101	0.960			
--	--	--	220	B	3RT19 44-5BM41		1	1 unit	101	1.004			
--	--	--	230	B	3RT19 44-5BP41		1	1 unit	101	0.956			

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT,
3RH contactors and contactor relays

For contactor		Rated control supply voltage U_s				DT	Cage Clamp terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		
Size	Type	AC		DC			Order No.	Price per PU						
		50 Hz V	50/60 Hz V	60 Hz V	V									
Magnetic coils - AC operation														
	S3	3RT10 44	24	--	--	--	B	3RT19 44-5AB02	1	1 unit	101	0.190		
			42	--	--	--	B	3RT19 44-5AD02	1	1 unit	101	0.130		
			48	--	--	--	B	3RT19 44-5AH02	1	1 unit	101	0.171		
			110	--	--	--	B	3RT19 44-5AF02	1	1 unit	101	0.185		
			230	--	--	--	B	3RT19 44-5AP02	1	1 unit	101	0.185		
			400	--	--	--	B	3RT19 44-5AV02	1	1 unit	101	0.190		
			--	24	--	--	B	3RT19 44-5AC22	1	1 unit	101	0.183		
			--	42	--	--	B	3RT19 44-5AD22	1	1 unit	101	0.130		
			--	48	--	--	B	3RT19 44-5AH22	1	1 unit	101	0.190		
			--	110	--	--	B	3RT19 44-5AG22	1	1 unit	101	0.185		
			--	220	--	--	B	3RT19 44-5AN22	1	1 unit	101	0.130		
			--	230	--	--	B	3RT19 44-5AL22	1	1 unit	101	0.178		
			--	110	--	120	--	B	3RT19 44-5AK62	1	1 unit	101	0.188	
			--	220	--	240	--	B	3RT19 44-5AP62	1	1 unit	101	0.188	
			--	100	110	--	B	3RT19 44-5AG62	1	1 unit	101	0.123		
			--	200	220	--	B	3RT19 44-5AN62	1	1 unit	101	0.123		
			--	400	440	--	B	3RT19 44-5AR62	1	1 unit	101	0.177		
			3RT10 45, 3RT10 46, 3RT13 4., 3RT14 46, 3RT15 4.	24	--	--	--	B	3RT19 45-5AB02	1	1 unit	101	0.165	
				42	--	--	--	B	3RT19 45-5AD02	1	1 unit	101	0.130	
				48	--	--	--	B	3RT19 45-5AH02	1	1 unit	101	0.130	
				110	--	--	--	B	3RT19 45-5AF02	1	1 unit	101	0.169	
				230	--	--	--	B	3RT19 45-5AP02	1	1 unit	101	0.170	
				400	--	--	--	B	3RT19 45-5AV02	1	1 unit	101	0.157	
				--	24	--	--	B	3RT19 45-5AC22	1	1 unit	101	0.166	
				--	42	--	--	B	3RT19 45-5AD22	1	1 unit	101	0.130	
				--	48	--	--	B	3RT19 45-5AH22	1	1 unit	101	0.174	
				--	110	--	--	B	3RT19 45-5AG22	1	1 unit	101	0.161	
				--	220	--	--	B	3RT19 45-5AN22	1	1 unit	101	0.170	
				--	230	--	--	B	3RT19 45-5AL22	1	1 unit	101	0.163	
				110	--	120	--	B	3RT19 45-5AK62	1	1 unit	101	0.171	
	220	--	240	--	B	3RT19 45-5AP62	1	1 unit	101	0.130				
	--	100	110	--	B	3RT19 45-5AG62	1	1 unit	101	0.123				
	--	200	220	--	B	3RT19 45-5AN62	1	1 unit	101	0.123				
	--	400	440	--	B	3RT19 45-5AR62	1	1 unit	101	0.169				
Magnetic coils - DC operation														
	S2	3RT10 3., 3RT13 3., 3RT15 3.	--	--	--	24	B	3RT19 34-5BB42	1	1 unit	101	0.625		
			--	--	--	42	C	3RT19 34-5BD42	1	1 unit	101	0.557		
			--	--	--	48	B	3RT19 34-5BW42	1	1 unit	101	0.652		
			--	--	--	60	B	3RT19 34-5BE42	1	1 unit	101	0.633		
			--	--	--	110	B	3RT19 34-5BF42	1	1 unit	101	0.612		
			--	--	--	125	C	3RT19 34-5BG42	1	1 unit	101	0.557		
			--	--	--	220	B	3RT19 34-5BM42	1	1 unit	101	0.637		
			--	--	--	230	B	3RT19 34-5BP42	1	1 unit	101	0.602		
			S3	3RT10 4., 3RT13 4., 3RT14 4., 3RT15 4.	--	--	--	24	B	3RT19 44-5BB42	1	1 unit	101	1.034
					--	--	--	42	B	3RT19 44-5BD42	1	1 unit	101	0.805
					--	--	--	48	B	3RT19 44-5BW42	1	1 unit	101	1.009
					--	--	--	60	B	3RT19 44-5BE42	1	1 unit	101	1.016
					--	--	--	110	B	3RT19 44-5BF42	1	1 unit	101	0.970
					--	--	--	125	B	3RT19 44-5BG42	1	1 unit	101	0.805
					--	--	--	220	B	3RT19 44-5BM42	1	1 unit	101	0.959
--	--	--			230	B	3RT19 44-5BP42	1	1 unit	101	0.958			

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts


For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT, 3RH contactors and contactor relays

For contactor		Rated control supply voltage $U_s \text{ min} \dots U_s \text{ max}$	DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type	V AC/DC		Order No.	Price per PU				kg

Withdrawable coils

Conventional operating mechanism

	S6	3RT10 5, 3RT14 5	23 ... 26	B	3RT19 55-5AB31	1	1 unit	101	0.620		
			42 ... 48	B	3RT19 55-5AD31	1	1 unit	101	0.576		
			110 ... 127	B	3RT19 55-5AF31	1	1 unit	101	0.591		
			200 ... 220	B	3RT19 55-5AM31	1	1 unit	101	0.568		
			220 ... 240	B	3RT19 55-5AP31	1	1 unit	101	0.580		
			240 ... 277	B	3RT19 55-5AU31	1	1 unit	101	0.579		
			380 ... 420	B	3RT19 55-5AV31	1	1 unit	101	0.569		
			440 ... 480	B	3RT19 55-5AR31	1	1 unit	101	0.613		
			500 ... 550	B	3RT19 55-5AS31	1	1 unit	101	0.610		
			575 ... 600	B	3RT19 55-5AT31	1	1 unit	101	0.605		
			S10	3RT10 6, 3RT14 6	23 ... 26	B	3RT19 65-5AB31	1	1 unit	101	0.850
					42 ... 48	B	3RT19 65-5AD31	1	1 unit	101	0.840
					110 ... 127	B	3RT19 65-5AF31	1	1 unit	101	0.809
200 ... 220	C	3RT19 65-5AM31			1	1 unit	101	0.805			
220 ... 240	B	3RT19 65-5AP31			1	1 unit	101	0.784			
240 ... 277	B	3RT19 65-5AU31			1	1 unit	101	0.840			
380 ... 420	B	3RT19 65-5AV31			1	1 unit	101	0.817			
440 ... 480	B	3RT19 65-5AR31			1	1 unit	101	0.825			
500 ... 550	C	3RT19 65-5AS31			1	1 unit	101	0.829			
575 ... 600	C	3RT19 65-5AT31			1	1 unit	101	0.792			
S10	3RT12 6 Vacuum contactor	23 ... 26	B	3RT19 66-5AB31	1	1 unit	101	1.060			
		42 ... 48	B	3RT19 66-5AD31	1	1 unit	101	0.995			
		110 ... 127	A	3RT19 66-5AF31	1	1 unit	101	1.003			
		200 ... 220	C	3RT19 66-5AM31	1	1 unit	101	0.650			
		220 ... 240	A	3RT19 66-5AP31	1	1 unit	101	0.930			
		240 ... 277	C	3RT19 66-5AU31	1	1 unit	101	0.997			
		380 ... 420	B	3RT19 66-5AV31	1	1 unit	101	0.825			
		440 ... 480	C	3RT19 66-5AR31	1	1 unit	101	0.650			
S12	3RT10 7, 3RT14 7, 3RT12 7 Vacuum contactor	23 ... 26	B	3RT19 75-5AB31	1	1 unit	101	1.425			
		42 ... 48	B	3RT19 75-5AD31	1	1 unit	101	1.255			
		110 ... 127	B	3RT19 75-5AF31	1	1 unit	101	1.311			
		200 ... 220	C	3RT19 75-5AM31	1	1 unit	101	1.200			
		220 ... 240	B	3RT19 75-5AP31	1	1 unit	101	1.204			
		240 ... 277	B	3RT19 75-5AU31	1	1 unit	101	1.308			
380 ... 420	B	3RT19 75-5AV31	1	1 unit	101	1.218					
440 ... 480	B	3RT19 75-5AR31	1	1 unit	101	1.261					
500 ... 550	C	3RT19 75-5AS31	1	1 unit	101	1.202					
575 ... 600	C	3RT19 75-5AT31	1	1 unit	101	1.139					

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT,
3RH contactors and contactor relays

For contactor		Rated control supply voltage U_s min ... U_s max	DT	Cage Clamp terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
Size	Type			V AC/DC	Order No.					Price per PU
Withdrawable coils										
<i>Conventional operating mechanism</i>										
S6	3RT10 5, 3RT14 5	23 ... 26	B	3RT19 55-5AB32		1	1 unit	101	0.649	
		42 ... 48	B	3RT19 55-5AD32		1	1 unit	101	0.576	
			110 ... 127	B	3RT19 55-5AF32		1	1 unit	101	0.591
			200 ... 220	B	3RT19 55-5AM32		1	1 unit	101	0.568
			220 ... 240	B	3RT19 55-5AP32		1	1 unit	101	0.568
			240 ... 277	B	3RT19 55-5AU32		1	1 unit	101	0.579
			380 ... 420	B	3RT19 55-5AV32		1	1 unit	101	0.569
			440 ... 480	B	3RT19 55-5AR32		1	1 unit	101	0.613
			500 ... 550	B	3RT19 55-5AS32		1	1 unit	101	0.610
			575 ... 600	B	3RT19 55-5AT32		1	1 unit	101	0.605
S10	3RT10 6, 3RT14 6	23 ... 26	B	3RT19 65-5AB32		1	1 unit	101	0.835	
		42 ... 48	B	3RT19 65-5AD32		1	1 unit	101	0.840	
			110 ... 127	B	3RT19 65-5AF32		1	1 unit	101	0.809
			200 ... 220	B	3RT19 65-5AM32		1	1 unit	101	0.805
			220 ... 240	B	3RT19 65-5AP32		1	1 unit	101	0.784
			240 ... 277	B	3RT19 65-5AU32		1	1 unit	101	0.855
			380 ... 420	B	3RT19 65-5AV32		1	1 unit	101	0.817
			440 ... 480	B	3RT19 65-5AR32		1	1 unit	101	0.825
			500 ... 550	B	3RT19 65-5AS32		1	1 unit	101	0.829
			575 ... 600	B	3RT19 65-5AT32		1	1 unit	101	0.650
S12	3RT10 7, 3RT14 7, 3RT12 7 Vacuum contactor	23 ... 26	B	3RT19 75-5AB32		1	1 unit	101	1.425	
		42 ... 48	B	3RT19 75-5AD32		1	1 unit	101	1.255	
			110 ... 127	B	3RT19 75-5AF32		1	1 unit	101	1.311
			200 ... 220	B	3RT19 75-5AM32		1	1 unit	101	1.100
			220 ... 240	B	3RT19 75-5AP32		1	1 unit	101	1.204
			240 ... 277	B	3RT19 75-5AU32		1	1 unit	101	1.308
			380 ... 420	B	3RT19 75-5AV32		1	1 unit	101	1.218
			440 ... 480	B	3RT19 75-5AR32		1	1 unit	101	1.261
			500 ... 550	B	3RT19 75-5AS32		1	1 unit	101	1.202
			575 ... 600	B	3RT19 75-5AT32		1	1 unit	101	1.139

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT, 3RH contactors and contactor relays

For contactor		Rated control supply voltage U_s	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type	V AC/DC		Order No.	Price per PU			kg

Withdrawable coils

Solid-state operating mechanism

For 24 V DC PLC output



3RT19 55-5N...

S6	3RT10 5,	21 ... 27.3	C	3RT19 55-5NB31		1	1 unit	101	0.636
	3RT14 5	96 ... 127	B	3RT19 55-5NF31		1	1 unit	101	0.567
		200 ... 277	B	3RT19 55-5NP31		1	1 unit	101	0.567
S10	3RT10 6,	21 ... 27.3	B	3RT19 65-5NB31		1	1 unit	101	0.808
	3RT14 6	96 ... 127	B	3RT19 65-5NF31		1	1 unit	101	0.926
		200 ... 277	B	3RT19 65-5NP31		1	1 unit	101	0.813
Vacuum contactor	3RT12 6	21 ... 27.3	B	3RT19 66-5NB31		1	1 unit	101	0.650
		96 ... 127	C	3RT19 66-5NF31		1	1 unit	101	0.650
		200 ... 277	C	3RT19 66-5NP31		1	1 unit	101	1.030
S12	3RT10 7,	21 ... 27.3	B	3RT19 75-5NB31		1	1 unit	101	1.355
	3RT14 7,	96 ... 127	B	3RT19 75-5NF31		1	1 unit	101	0.951
	3RT12 7	200 ... 277	B	3RT19 75-5NP31		1	1 unit	101	1.061
	Vacuum contactor								

For 24 V DC PLC output/PLC relay output, with remaining lifetime indication (RLT)

(Withdrawable coil with lateral solid-state module)

S6	3RT10 5,	96 ... 127	B	3RT19 55-5PF31		1	1 unit	101	0.570
	3RT14 5	200 ... 277	B	3RT19 55-5PP31		1	1 unit	101	0.955
S10	3RT10 6,	96 ... 127	B	3RT19 65-5PF31		1	1 unit	101	1.368
	3RT14 6	200 ... 277	B	3RT19 65-5PP31		1	1 unit	101	1.176
S12	3RT10 7,	96 ... 127	B	3RT19 75-5PF31		1	1 unit	101	1.100
	3RT14 7	200 ... 277	B	3RT19 75-5PP31		1	1 unit	101	1.424

With AS-Interface and remaining lifetime indication (RLT)

(Withdrawable coil with lateral solid-state module)

S6	3RT10 5,	96 ... 127	B	3RT19 55-5QF31		1	1 unit	101	0.961
	3RT14 5	200 ... 277	B	3RT19 55-5QP31		1	1 unit	101	0.946
S10	3RT10 6,	96 ... 127	B	3RT19 65-5QF31		1	1 unit	101	0.650
	3RT14 6	200 ... 277	B	3RT19 65-5QP31		1	1 unit	101	0.650
S12	3RT10 7,	96 ... 127	B	3RT19 75-5QF31		1	1 unit	101	1.100
	3RT14 7	200 ... 277	B	3RT19 75-5QP31		1	1 unit	101	1.460

For contactor		Rated control supply voltage U_s	DT	Cage Clamp terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type	V AC/DC		Order No.	Price per PU			kg

Withdrawable coils

Solid-state operating mechanism

For 24 V DC PLC output

S6	3RT10 5,	21 ... 27.3	B	3RT19 55-5NB32		1	1 unit	101	0.654
	3RT14 5	96 ... 127	B	3RT19 55-5NF32		1	1 unit	101	0.567
		200 ... 277	B	3RT19 55-5NP32		1	1 unit	101	0.567
S10	3RT10 6,	21 ... 27.3	B	3RT19 65-5NB32		1	1 unit	101	0.808
	3RT14 6	96 ... 127	B	3RT19 65-5NF32		1	1 unit	101	0.926
		200 ... 277	B	3RT19 65-5NP32		1	1 unit	101	0.813
S12	3RT10 7,	21 ... 27.3	B	3RT19 75-5NB32		1	1 unit	101	1.355
	3RT14 7,	96 ... 127	B	3RT19 75-5NF32		1	1 unit	101	0.951
	3RT12 7	200 ... 277	B	3RT19 75-5NP32		1	1 unit	101	1.061
	Vacuum contactor								

Accessories and Spare Parts

For 3RT, 3RH Contactors and Contactor Relays

Spare parts for 3RT, 3RH contactors and contactor relays




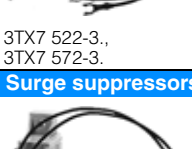


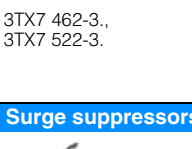

For contactor		Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Size	Type								
Arc chutes									
S2	3RT10 3 .	Arc chute, 3-pole	C	3RT19 36-7A		1	1 unit	101	0.112
S3	3RT10 4., 3RT14 46		C	3RT19 46-7A		1	1 unit	101	0.299
S6	3RT10 54 3RT10 55 3RT10 56		B	3RT19 54-7A		1	1 unit	101	0.760
			B	3RT19 55-7A		1	1 unit	101	0.760
			B	3RT19 56-7A		1	1 unit	101	0.755
S10	3RT10 64 3RT10 65 3RT10 66		B	3RT19 64-7A		1	1 unit	101	1.355
			B	3RT19 65-7A		1	1 unit	101	1.355
			B	3RT19 66-7A		1	1 unit	101	1.355
S12	3RT10 75 3RT10 76		B	3RT19 75-7A		1	1 unit	101	1.643
			B	3RT19 76-7A		1	1 unit	101	1.650
S6	3RT14 56		B	3RT19 56-7B		1	1 unit	101	0.720
S10	3RT14 66		B	3RT19 66-7B		1	1 unit	101	1.350
S12	3RT14 76		B	3RT19 76-7B		1	1 unit	101	1.400
Contacts with fixing parts									
<i>For contactors with 3 main contacts</i>									
S2	3RT10 34 3RT10 35 3RT10 36	Main contacts (3 NO contacts) for utilization category AC-3 (1 set = 3 movable and 6 fixed switching elements with fixing parts)	▶	3RT19 34-6A		1	1 set	101	0.041
			▶	3RT19 35-6A		1	1 set	101	0.044
			▶	3RT19 36-6A		1	1 set	101	0.046
S3	3RT10 44 3RT10 45 3RT10 46		▶	3RT19 44-6A		1	1 set	101	0.098
			▶	3RT19 45-6A		1	1 set	101	0.111
			▶	3RT19 46-6A		1	1 set	101	0.116
S6	3RT10 54 3RT10 55 3RT10 56		▶	3RT19 54-6A		1	1 set	101	0.239
			▶	3RT19 55-6A		1	1 set	101	0.281
			▶	3RT19 56-6A		1	1 set	101	0.295
S10	3RT10 64 3RT10 65 3RT10 66		▶	3RT19 64-6A		1	1 set	101	0.443
			▶	3RT19 65-6A		1	1 set	101	0.513
			▶	3RT19 66-6A		1	1 set	101	0.555
S12	3RT10 75 3RT10 76		▶	3RT19 75-6A		1	1 set	101	0.766
			A	3RT19 76-6A		1	1 set	101	0.915
S3	3RT14 46	Main contacts (3 NO contacts) for utilization category AC-1 (1 set = 3 movable and 6 fixed switching elements with fixing parts)	B	3RT19 46-6D		1	1 set	101	0.113
S6	3RT14 56		B	3RT19 56-6D		1	1 set	101	0.285
S10	3RT14 66		B	3RT19 66-6D		1	1 set	101	0.543
S12	3RT14 76		A	3RT19 76-6D		1	1 set	101	0.899
<i>For 3RT12 vacuum contactors</i>									
S10	3RT12 64 3RT12 65 3RT12 66	3 vacuum interrupters with fixing parts	B	3RT19 64-6V		1	1 set	101	1.530
			B	3RT19 65-6V		1	1 set	101	1.525
			B	3RT19 66-6V		1	1 set	101	1.520
S12	3RT12 75 3RT12 76		B	3RT19 75-6V		1	1 set	101	1.775
			B	3RT19 76-6V		1	1 set	101	1.775
<i>For contactors with 4 main contacts</i>									
S2	3RT13 26	Main contacts (4 NO contacts) for utilization category AC-1	B	3RT19 36-6E		1	1 set	101	0.058
S3	3RT13 44 3RT13 46	(1 set = 4 movable and 8 fixed switching elements with fixing parts)	C	3RT19 44-6E		1	1 set	101	0.149
			C	3RT19 46-6E		1	1 set	101	0.150

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF, 3TG, 3TK contactors




Selection and ordering data

For contactor		Version	Rated control supply voltage U_s		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
Size	Type		V AC	V DC							kg	
Surge suppressors¹⁾ · Varistors												
	2	3TC44 ²⁾	Varistors³⁾ With line spacer, for mounting onto the coil terminal	24 ... 48	24 ... 70	A	3TX7 402-3G		1	1 unit	101	0.015
				48 ... 127	70 ... 150	A	3TX7 402-3H		1	1 unit	101	0.015
				127 ... 240	150 ... 250	A	3TX7 402-3J		1	1 unit	101	0.015
				240 ... 400	--	C	3TX7 402-3K		1	1 unit	101	0.024
				400 ... 600	--	C	3TX7 402-3L		1	1 unit	101	0.024
	4 and 6	3TB50 and 3TC56	Varistors³⁾ For sticking onto the contactor base or for mounting separately	24 ... 48	24 ... 70	D	3TX7 462-3G		1	1 unit	101	0.013
				48 ... 127	70 ... 150	C	3TX7 462-3H		1	1 unit	101	0.014
				127 ... 240	150 ... 250	B	3TX7 462-3J		1	1 unit	101	0.014
				240 ... 400	--	A	3TX7 462-3K		1	1 unit	101	0.016
	8 and 12	3TC52 and 3TC56	Varistors For sticking onto the contactor base or for mounting separately	24 ... 48	--	D	3TX7 462-3G		1	1 unit	101	0.013
				48 ... 127	--	C	3TX7 462-3H		1	1 unit	101	0.014
				127 ... 240	--	B	3TX7 462-3J		1	1 unit	101	0.014
				240 ... 400	--	A	3TX7 462-3K		1	1 unit	101	0.016
	8 ... 12	3TB52 ... 3TB56, 3TC52 and 3TC56	Varistors³⁾ For separate screw connection or snapping onto 35 mm standard mounting rail	--	24 ... 70	B	3TX7 522-3G		1	1 unit	101	0.083
				--	70 ... 150	B	3TX7 522-3H		1	1 unit	101	0.078
				--	150 ... 250	B	3TX7 522-3J		1	1 unit	101	0.084
	14	3TF68 and 3TF69	Varistors³⁾ For DC economy circuit; for snapping onto the side of auxiliary switches	--	24 ... 48	C	3TX7 572-3G		1	1 unit	101	0.075
				--	48 ... 127	C	3TX7 572-3H		1	1 unit	101	0.085
				--	127 ... 240	C	3TX7 572-3J		1	1 unit	101	0.081
Surge suppressors · RC elements												
	4	3TC48	RC elements For lateral snapping onto auxiliary switch or 35 mm standard mounting rail	24 ... 48	--	C	3TX7 462-3R		1	1 unit	101	0.084
				--	24 ... 70	B	3TX7 522-3R		1	1 unit	101	0.080
				48 ... 127	--	A	3TX7 462-3S		1	1 unit	101	0.082
				--	70 ... 150	B	3TX7 522-3S		1	1 unit	101	0.088
				127 ... 240	--	A	3TX7 462-3T		1	1 unit	101	0.081
				--	150 ... 250	B	3TX7 522-3T		1	1 unit	101	0.085
	6 ... 12	3TB50, 3TC52 and 3TC56	RC elements For lateral snapping onto auxiliary switch or 35 mm standard mounting rail	24 ... 48	--	B	3TX7 522-3R		1	1 unit	101	0.080
				48 ... 127	--	B	3TX7 522-3S		1	1 unit	101	0.088
				127 ... 240	--	B	3TX7 522-3T		1	1 unit	101	0.085
				240 ... 400	--	B	3TX7 522-3U		1	1 unit	101	0.085
				400 ... 600	--	A	3TX7 462-3U		1	1 unit	101	0.084
				--	600 ... --	C	3TX7 462-3V		1	1 unit	101	0.086
Surge suppressors⁴⁾ · Diodes												
	6 ... 12	3TB52 ... 3TB56, 3TC48 and 3TC56	Diode assemblies (diode and Zener diode) For DC solenoid system, for sticking onto the contactor base or for mounting separately	--	24 ... 250	D	3TX7 462-3D		1	1 unit	101	0.014

- 1) The surge suppressor is integrated as standard in the following contactors: 3TF68 and 3TF69 (AC operation): varistor circuit.
- 2) The connection piece for mounting the surge suppressor must be bent slightly.
- 3) Includes the peak value of the ripple voltage on the DC side.
- 4) Not for DC economy circuit.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF, 3TG, 3TK contactors

For contactor	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Size	Type							
Solid-state compatible auxiliary switch blocks with screw terminals								
	14 and 2 and 4	3TF68 and 3TF69 3TC44... 3TC48	For mounting onto the side of contactors. For use in dusty atmosphere and solid-state circuits with rated operating currents I_g /AC-14 and DC-13 from 1 mA to 300 mA at 3 V to 60 V. With 1 changeover contact. 2nd auxiliary switch block, left or right (replacement for 3TY6 561-1U, 3TY6 561-1V)	B	3TY7 561-1UA00	1	1 unit	101 0.053
5TY7 561-1.								
Coupling links for control by PLC								
	14	3TF68 and 3TF69	Operating range: 17 to 30 V DC. Power consumption: 0.5 W at 24 V DC. Fitted with varistor. For technical specifications, see LV 1 T For snapping onto the side of auxiliary switch, with surge suppression	▶	3TX7 090-0D	1	1 unit	101 0.080
Terminal covers for protection against inadvertent contact with exposed bar connections								
	14	3TF68 3TF69	For screwing onto free screw end on middle connecting bar. 2 units required per contactor. (1 set = 2 units)	B	3TX7 686-0A 3TX7 696-0A	1	1 set	101 0.410 101 0.402
3TX7								
	6 and 8 and SIRIUS S6	3TB50, 3TC48 3TB52 3RT1.5	Can be screwed on free screw end. Covers one rail connection (1 set = 6 units).	M 6 B	3TX6 506-3B	1	1 set	101 0.082
3TX6 526-3B	10 and 14 and SIRIUS S10, S12	3TB54... 3TB56, 3TC52, 3TC56 3RT1.6 3RT1.7		M 8 B M 10 B	3TX6 526-3B 3TX6 546-3B	1	1 set	101 0.140 101 0.260
Links for paralleling (star jumper) · 3-pole, without connection terminal¹⁾								
	14	3TF68		C	3TX7 680-0D	1	1 unit	101 0.256
Cover plate for link for paralleling								
	14	3TF68	A cover plate must be used in order to protect against inadvertent contact with exposed bar connections (EN 50274).	C	3TX7 680-0E	1	1 unit	101 0.080
Box terminals for laminated copper bars								
Without auxiliary conductor connection (1 set = 3 units)								
	14	3TF68	With single covers for protection against inadvertent contact (EN 50274)	C	3TX7 570-1E	1	1 set	101 0.675
With auxiliary conductor connection (1 set = 3 units)								
	14	3TF68	With single covers for protection against inadvertent contact (EN 50274)	C	3TX7 570-1F	1	1 set	101 0.698
	14	3TF69	Conductor cross-sections for auxiliary conductors: Solid 2 x (0.75 ... 2.5) mm ² Finely stranded with end sleeve 2 x (0.5 ... 2.5) mm ² Solid or stranded 2 x (18 ... 12) AWG Tightening torque 0.8 ... 1.4 Nm (7 ... 12 lb.in)	C	3TX7 690-1F	1	1 set	101 1.986

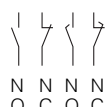
1) The link for paralleling can be reduced by one pole.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF, 3TG, 3TK contactors

For contactor	Remarks	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type	V DC							kg
Arc chutes									
2	3TC44 17-0L..	With cutout for mounting resistor	B	3TY2 442-0B		1	1 unit	101	0.164
Magnetic coils									
2	3TC44	With series resistor Without varistor	24 110	C C	3TY6 443-0LB4 3TY6 443-0LF4	1 1	1 unit 1 unit	101 101	0.340 0.330
4	3TC48		24 110	C C	3TY6 483-0LB4 3TY6 483-0LF4	1 1	1 unit 1 unit	101 101	1.170 1.116
6	3TB50		24 110	C C	3TY6 503-0LB4 3TY6 503-0LF4	1 1	1 unit 1 unit	101 101	1.100 1.100
8	3TB52 and 3TC52		24 110	C C	3TY6 523-0LB4 3TY6 523-0LF4	1 1	1 unit 1 unit	101 101	2.942 2.912
10	3TB54		24 110	C C	3TY6 543-0LB4 3TY6 543-0LF4	1 1	1 unit 1 unit	101 101	1.100 1.100
12	3TB56 and 3TC56		24 110	C C	3TY6 563-0LB4 3TY6 563-0LF4	1 1	1 unit 1 unit	101 101	1.100 1.100

All spare parts not mentioned above are identical to those for the standard contactors.

Auxiliary contacts	Rated operating current I_e /AC-15/AC-14 at	Auxiliary contacts	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	230/ 220 V	400/ 380 V	500 V AC	Ident. No.	Version				
									
Number	A	A	A						kg

Snap-on auxiliary switch blocks for 3TF2 contactors with screw terminals



3TX4 4...-A

For assembling contactors with several auxiliary contacts
With 2, 4 and 5 auxiliary contacts according to DIN 50012
For 3TF2. 10 contactors (auxiliary contact 1 NO = 10E)

1	4	3	2	11 E	-- 1 -- -- B	3TX4 401-1A	1	1 unit	101	0.033
3	4	3	2	22 E	1 2 -- -- B	3TX4 412-1A	1	1 unit	101	0.042
4	4	3	2	23 E	1 3 -- -- B	3TX4 413-1A	1	1 unit	101	0.047
				32 E	2 2 -- -- B	3TX4 422-1A	1	1 unit	101	0.048
With 3 and 5 auxiliary contacts according to DIN 50005 for 3TF2 contactors										
2	4	3	2	20	2 -- -- -- B	3TX4 420-2A	1	1 unit	101	0.038
				11	1 1 -- -- B	3TX4 411-2A	1	1 unit	101	0.038
				02	-- 2 -- -- B	3TX4 402-2A	1	1 unit	101	0.037
				11; U	-- -- 1 1 B	3TX4 411-2G	1	1 unit	101	0.037
4	4	3	2	40	4 -- -- -- B	3TX4 440-2A	1	1 unit	101	0.047
				31	3 1 -- -- B	3TX4 431-2A	1	1 unit	101	0.047
				22	2 2 -- -- B	3TX4 422-2A	1	1 unit	101	0.047
				22; 2 U	-- -- 2 2 B	3TX4 422-2G	1	1 unit	101	0.047

For contactor	Rated control supply voltage U_s	Time range (minimum times)	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type									kg

OFF-delay devices (with screw terminals) for 3TF2 contactors






For DC-operated contactors for bridging short-time power failures up to 0.8 s

3TF2. ...-0BB4	24 V DC	0.25 s or 0.5 s	B	3TX4 490-1H		1	1 unit	101	0.083
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Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF, 3TG, 3TK contactors

For contactor	Rated control supply voltage		Power consumption of LED at U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	U_s										
Type	V AC	V DC	MW							kg	
Surge suppressors for 3TF2 contactors - For plugging onto contactors with and without auxiliary switch blocks											
<i>Version without LED</i>											
RC elements											
 3TX4 490-3A	3TF2...-0...	24 ... 48	24 ... 70	--	B	3TX4 490-3R		1	10 units	101	0.010
	3TF2...-1...	48 ... 127	70 ... 150	--	B	3TX4 490-3S		1	1 unit	101	0.010
		127 ... 240	150 ... 250	--	B	3TX4 490-3T		1	1 unit	101	0.010
		240 ... 400	--	--	B	3TX4 490-3U		1	1 unit	101	0.014
		400 ... 600	--	--	B	3TX4 490-3V		1	1 unit	101	0.015
Varistors											
	3TF2...-0...	≤ 48	24 ... 70	--	B	3TX4 490-3G		1	1 unit	101	0.010
	3TF2...-1...	48 ... 127	70 ... 150	--	B	3TX4 490-3H		1	1 unit	101	0.010
		127 ... 240	150 ... 250	--	B	3TX4 490-3J		1	1 unit	101	0.010
		240 ... 400	--	--	B	3TX4 490-3K		1	10 units	101	0.016
		400 ... 600	--	--	B	3TX4 490-3L		1	10 units	101	0.016
Noise suppression diodes											
	3TF2...-0...	--	12 ... 250	--	B	3TX4 490-3A		1	1 unit	101	0.010
	3TF2...-1...	--									
Diode assemblies (diode and Zener diode) For DC operation and short break times											
	3TF2...-0...	--	24 ... 250	--	B	3TX4 490-3B		1	1 unit	101	0.009
	3TF2...-1...	--									
<i>Version with LED</i>											
Varistors											
 3TX4 490-4G	3TF2...-0...	24 ... 48	12 ... 24	10 ... 120	B	3TX4 490-4G		1	1 unit	101	0.009
	3TF2...-1...	48 ... 127	24 ... 70	20 ... 470	B	3TX4 490-4H		1	1 unit	101	0.009
		127 ... 240	70 ... 150	50 ... 700	B	3TX4 490-4J		1	1 unit	101	0.010
		--	150 ... 250	160 ... 950	B	3TX4 490-4K		1	1 unit	101	0.009
Noise suppression diodes											
	3TF2...-0...	--	24 ... 70	20 ... 470	B	3TX4 490-4A		1	1 unit	101	0.009
	3TF2...-1...	--	70 ... 150	50 ... 700	B	3TX4 490-4B		1	1 unit	101	0.009
		--	150 ... 250	160 ... 950	B	3TX4 490-4C		1	1 unit	101	0.009
Additional load modules for 3TF2 contactors - For plugging onto contactors with and without auxiliary switch blocks¹⁾											
For increasing the permissible residual current and for limiting the residual voltage											
	3TF2...-0A...	230/220, 50 Hz	--		B	3TX4 490-1J		1	1 unit	101	0.011
	3TF2...-1A...	230, 60 Hz									
		230, 50/60 Hz									
		Operating range 0.8 ... 1.1 x U_s									
Plug-in bases with solder pin connectors for printed circuit boards - width 45 mm for 3TF2 and 3TK2 contactors											
	For 3TF2 and 3TK2 contactors With flat connectors 6.3 mm x 0.8 mm; Rated insulation voltage U_i : 400 V (pollution degree 3); Rated impulse withstand voltage U_{imp} : 6 kV; Rated operating current I_a : 6 A; ⊕ and ⊖ rated data: max. 300 V, 6 A										
	3TF20...-3...				A	3TX4 491-2A		1	5 units	101	0.032
	3TF20...-7...										
	3TK20...-3...										
	3TK20...-7...										
Release tools											
	3TF2...-7...	For releasing contactors from 3TX4 491-2A plug-in bases			D	3TX4 491-2K		1	1 unit	101	0.010
	3TK20...-7...										

1) Dimensions as for 3TX4 490-3 surge suppressor.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TB, 3TC, 3TF, 3TG, 3TK contactors

Accessories

For contactor	Max. rated operating currents $I_e/AC-1$ (at 55 °C) of the contactors	Max. conductor cross-sections	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Type	A	mm ²							

Links for paralleling (star jumpers)

3-pole, without connection terminal¹⁾²⁾

3TG10	16 star jumpers can be reduced by one pole	--	▶	3RT19 16-4BA31		1	1 unit	101	0.003
-------	--	----	---	-----------------------	--	---	--------	-----	-------

3-pole, with connection terminal¹⁾³⁾

3TG10	40	25	▶	3RT19 16-4BB31		1	1 unit	101	0.015
-------	----	----	---	-----------------------	--	---	--------	-----	-------

4-pole, with connection terminal¹⁾⁴⁾

3TG10	50	25	C	3RT19 16-4BB41		1	1 unit	101	0.015
-------	----	----	---	-----------------------	--	---	--------	-----	-------

1) The links for paralleling can be reduced by one pole. The rated operating currents apply to each pole. The parallel connections are insulated.

2) Replacement for 3TX4 490-2C.

3) Replacement for 3TX4 490-2A.

4) Replacement for 3TX4 490-2B.

Selection and ordering data

Version	Rated control supply voltage U_s		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
	AC V	DC V							

Surge suppressors¹⁾ for 3TH4 contactor relays



3TX7 402-3.

Noise suppression diodes With line spacer, for mounting onto the coil terminal	--	24 ... 250	A	3TX7 402-3A			1	1 unit	101	0.147
Diode assemblies (diode and Zener diode) with line spacer, DC operation, for mounting onto the coil terminal	--	24 ... 250	A	3TX7 402-3D			1	1 unit	101	0.015
Varistors²⁾ With line spacer, for mounting onto the coil terminal	24 ... 48	24 ... 70	A	3TX7 402-3G			1	1 unit	101	0.015
	48 ... 127	70 ... 150	A	3TX7 402-3H			1	1 unit	101	0.015
	127 ... 240	150 ... 250	A	3TX7 402-3J			1	1 unit	101	0.015
	240 ... 400	--	C	3TX7 402-3K			1	1 unit	101	0.024
RC elements With line spacer, for mounting onto the coil terminal	400 ... 600	--	C	3TX7 402-3L			1	1 unit	101	0.024
	24 ... 48	24 ... 70	A	3TX7 402-3R			1	1 unit	101	0.025
	48 ... 127	70 ... 150	A	3TX7 402-3S			1	1 unit	101	0.025
	127 ... 240	150 ... 250	A	3TX7 402-3T			1	1 unit	101	0.023
	240 ... 400	--	C	3TX7 402-3U			1	1 unit	101	0.024
	400 ... 600	--	C	3TX7 402-3V			1	1 unit	101	0.024
Covers For switch position indicator	--	--	B	3TX4 210-0P			1	1 unit	101	0.002

Coupling links for control by PLC for 3TH4 contactor relays



3TX4 090
mounted to contactor

Operating range: 17 ... 30 V DC Power consumption: 0.5 W at 24 V DC For mounting directly to contactor coil without surge suppressor			A	3TX4 090-0C			1	1 unit	101	0.055
For mounting directly to contactor coil with surge suppressor			A	3TX4 090-0D			1	1 unit	101	0.057

1) The opening delay of the NO contact and the closing delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (noise suppression diode 6 to 10 times; diode assemblies 2 to 6 times, varistor +2 to 5 ms).

2) Includes the peak value of the ripple voltage on the DC side.

For contactor	Version	Rated control supply voltage U_s AC 50/60 Hz	Time range (minimum times)	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg

ON-delay devices



3TX4 180-0A

3TH42/ 3TH43	NTC thermistors Time tolerance + 100 %, -50 %	220 ... 230	0.1	B	3TX4 180-0A			1	1 unit	101	0.013
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Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TH contactor relays

For contactor	Rated control supply voltage U_s	OFF delay	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type	AC 50/60 Hz V	DC V	s						kg

OFF-delay devices for bridging short-time power failures (up to 1.2 s)

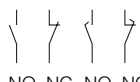


3TX4 701-0AN1

3TH42 ...-0BF4 3TH43 ...-0BF4	110		0.15 or 0.3	A	3TX4 701-0AN1		1	1 unit	101	0.169
3TH42 ...-0BM4 3TH43 ...-0BM4	220		0.6 or 1.2	A	3TX4 701-0AN1		1	1 unit	101	0.169
3TH42 ...-0BP4 3TH43 ...-0BP4	230		0.6 or 1.2	A	3TX4 701-0AN1		1	1 unit	101	0.169
3TH42 ...-0BB4 3TH43 ...-0BB4		24	0.4 or 0.8	A	3TX4 701-0BB4		1	1 unit	101	0.168

Contacts	Rated operating current I_e /AC-15/AC-14 at	Contacts	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Number	A	A	A	A					kg

230/ 400/ 500 V 690/ Ident. No. Version
220 V 380 V AC 660 V acc. to
EN 50011



Snap-on auxiliary switch blocks for 3TH20 contactor relays with screw terminals



3TX4 440-0A

With 8 contacts according to EN 50011,
For snapping onto contactor relays with 4 NO,
Ident. No. 40E (3TH20 40-0...)

4	4	3	2	--	80 E	4 -- -- -- B	3TX4 440-0A	1	1 unit	101	0.047
					71 E	3 1 -- -- B	3TX4 431-0A	1	1 unit	101	0.047
					62 E	2 2 -- -- B	3TX4 422-0A	1	1 unit	101	0.047
					53 E	1 3 -- -- B	3TX4 413-0A	1	1 unit	101	0.048
					44 E	-- 4 -- -- B	3TX4 404-0A	1	1 unit	101	0.047

With 6 and 8 contacts according to EN 50005

4	4	3	2	--	40 E	4 -- -- -- B	3TX4 440-2A	1	1 unit	101	0.047
					31 E	3 1 -- -- B	3TX4 431-2A	1	1 unit	101	0.047
					22 E	2 2 -- -- B	3TX4 422-2A	1	1 unit	101	0.047
					22; 2U	-- -- 2 2 B	3TX4 422-2G	1	1 unit	101	0.047
2	4	3	2	--	20 E	2 -- -- -- B	3TX4 420-2A	1	1 unit	101	0.038
					11 E	1 1 -- -- B	3TX4 411-2A	1	1 unit	101	0.038
					02 E	-- 2 -- -- B	3TX4 402-2A	1	1 unit	101	0.037
					11; U	-- -- 1 1 B	3TX4 411-2G	1	1 unit	101	0.037

For contactor	Rated control supply voltage U_s	Time range (minimum times)	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type									kg

OFF-delay devices (with screw terminals)







3TX4 490-1A

For DC-operated contactors for bridging short-time power failures up to 0.8 s

3TH2. ...-0BB4	24 V DC		0.25 s or 0.5 s	B	3TX4 490-1H		1	1 unit	101	0.083
3TH2. ...-0BF4 3TH2. ...-0BM4, 3TH2. ...-0BP4	110 V AC, 50/60 Hz 220 V AC, 50/60 Hz		0.1 s or 0.2 s 0.4 s or 0.8 s	B	3TX4 490-1A		1	1 unit	101	0.085

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TH contactor relays





For contactor Type	Rated control supply voltage U_s		Power consumption of LED at U_s MW	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
	V AC	V DC									
Surge suppressors¹⁾ For plugging onto contactors with and without auxiliary switch blocks											
<i>Version without LED</i>											
 3TX4 490-3A	RC elements										
	3TH2. ...-0...	24 ... 48	24 ... 70	--	B	3TX4 490-3R		1	10 units	101	0.010
		48 ... 127	70 ... 150	--	B	3TX4 490-3S		1	1 unit	101	0.010
		127 ... 240	150 ... 250	--	B	3TX4 490-3T		1	1 unit	101	0.010
		240 ... 400	--	--	B	3TX4 490-3U		1	1 unit	101	0.014
		400 ... 600	--	--	B	3TX4 490-3V		1	1 unit	101	0.015
	Varistors										
	3TH2. ...-0...	≤ 48	24 ... 70	--	B	3TX4 490-3G		1	1 unit	101	0.010
		48 ... 127	70 ... 150	--	B	3TX4 490-3H		1	1 unit	101	0.010
		127 ... 240	150 ... 250	--	B	3TX4 490-3J		1	1 unit	101	0.010
	240 ... 400	--	--	B	3TX4 490-3K		1	10 units	101	0.016	
	400 ... 600	--	--	B	3TX4 490-3L		1	10 units	101	0.016	
Noise suppression diodes											
3TH2. ...-0...	--	12 ... 250	--	B	3TX4 490-3A		1	1 unit	101	0.010	
Diode assemblies (diode and Zener diode) For DC operation and short break times											
3TH2. ...-0...	--	24 ... 250	--	B	3TX4 490-3B		1	1 unit	101	0.009	
<i>Version with LED</i>											
 3TX4 490-4G	Varistors										
	3TH2. ...-0...	24 ... 48	12 ... 24	10 ... 12	B	3TX4 490-4G		1	1 unit	101	0.009
		48 ... 27	24 ... 70	20 ... 470	B	3TX4 490-4H		1	1 unit	101	0.009
		127 ... 240	70 ... 150	50 ... 700	B	3TX4 490-4J		1	1 unit	101	0.010
		--	150 ... 250	160 ... 950	B	3TX4 490-4K		1	1 unit	101	0.009
	Noise suppression diodes										
	3TH2. ...-0...	--	24 ... 70	20 ... 470	B	3TX4 490-4A		1	1 unit	101	0.009
		--	70 ... 150	50 ... 700	B	3TX4 490-4B		1	1 unit	101	0.009
		--	150 ... 250	160 ... 950	B	3TX4 490-4C		1	1 unit	101	0.009
	Additional load modules (residual current) For plugging onto contactors with and without auxiliary switch blocks										
 3TX4 490-1J	For increasing the permissible residual current and for limiting the residual voltage of SIMATIC semiconductor outputs										
	3TH2. ...-0A	230/220, 50 Hz	--		B	3TX4 490-1J		1	1 unit	101	0.011
		230, 60 Hz	--								
		230, 50/60 Hz	--								
		Operating range 0.8 ... 1.1 x U_s									
Plug-in bases with solder pin connectors for printed circuit boards, width 45 mm											
 3TX4 491-2A	For 3TH2 contactor relays; With flat connectors 1 x 6.3 mm ... 0.8 mm; Rated insulation voltage U_i : 400 V (pollution degree 3); Rated impulse withstand voltage U_{imp} : 6 kV; Rated operating current I_G : 6 A; Ⓢ and ⓈA rated data: max. 300 V, 6 A										
	3TH20 ...-3, 3TH20 ...-7				A	3TX4 491-2A		1	5 units	101	0.032

1) The opening delay of the NO contact and the closing delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (noise suppression diode 6 to 10 times; diode assemblies 2 to 6 times, varistor +2 to 5 ms).

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

Selection and ordering data





For contactor	Contacts Version	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
Size	Type	NO NC NC							kg	
Auxiliary switch blocks										
	6	3TB50	1 1 --	Auxiliary switch block, left or right (replacement for 3TY6 501-1A/-1B)	B	3TY6 501-1AA00	1	1 unit	101	0.053
			1 -- 1	Auxiliary switch block, right	C	3TY6 501-1E	1	1 unit	101	0.054
	8 ... 12	3TB52	1 1 --	Auxiliary switch block, left	B	3TY6 561-1A	1	1 unit	101	0.074
			3TB56	1 1 --	Auxiliary switch block, right	B	3TY6 561-1B	1	1 unit	101
			1 -- 1	Auxiliary switch block, right	C	3TY6 561-1E	1	1 unit	101	0.076
Magnetic coils										
DC operation										
	6	3TB50			C	3TY6 503-0B..	1	1 unit	101	0.230
	8	3TB52			C	3TY6 523-0B..	1	1 unit	101	0.400
	10	3TB54			C	3TY6 543-0B..	1	1 unit	101	0.400
	12	3TB56			C	3TY6 563-0B..	1	1 unit	101	0.560
Arc chutes										
	6	3TB50		1 arc chute, 3-pole	B	3TY6 502-0A	1	1 unit	101	0.751
	8	3TB52			C	3TY6 522-0A	1	1 unit	101	1.177
	10	3TB54			C	3TY6 542-0A	1	1 unit	101	1.456
	12	3TB56			C	3TY6 562-0A	1	1 unit	101	1.580
Contacts with fixing parts										
In order to ensure reliable operation of the contactors, only original replacement contacts from Siemens should be used.										
	6	3TB50		(1 set = 3 moving and 6 fixed contacts)	B	3TY6 500-0A	1	1 set	101	0.283
	8	3TB52			B	3TY6 520-0A	1	1 unit	101	0.359
	10	3TB54			B	3TY6 540-0A	1	1 set	101	0.529
	12	3TB56			B	3TY6 560-0A	1	1 set	101	0.756

For rated control supply voltages for coils, see page 3/146.

* You can order this quantity or a multiple thereof.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors




For contactor	Auxiliary contacts		Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
	Size	Type									NO
											
Auxiliary switch blocks											
 3TY6 561-1A	2 and 4	3TB44, 3TC48	1	1	Auxiliary switch block, left or right (replacement for 3TY6 501-1A/-1B)	B	3TY6 501-1AA00	1	1 unit	101	0.053
	4	3TC48	1	1	2nd auxiliary switch block, left ¹⁾	C	3TY6 501-1K	1	1 unit	101	0.055
					2nd auxiliary switch block, right ¹⁾	C	3TY6 501-1L	1	1 unit	101	0.047
	8 and 12	3TC52, 3TC56	1	1	Auxiliary switch block, left	B	3TY6 561-1A	1	1 unit	101	0.074
					Auxiliary switch block, right	B	3TY6 561-1B	1	1 unit	101	0.075
					2nd auxiliary switch block, left ¹⁾	C	3TY6 561-1K	1	1 unit	101	0.077
				2nd auxiliary switch block, right ¹⁾	C	3TY6 561-1L	1	1 unit	101	0.078	
Contacts with fixing parts											
 3TY2 520-0A											
In order to ensure reliable operation of the contactors, only original replacement contacts from Siemens should be used.											
2	3TC44	(1 set = 2 moving and 2 fixed switching elements)		B	3TY2 440-0A		1	1 set	101	0.065	
4	3TC48			B	3TY2 480-0A		1	1 set	101	0.100	
8	3TC52			B	3TY2 520-0A		1	1 set	101	0.237	
12	3TC56			B	3TY2 560-0A		1	1 set	101	0.424	
<i>Rated control supply voltages for coils, see page 3/146.</i>											
Arc chutes											
 3TC2 48	2	3TC44	1 arc chute,		C	3TY2 442-0A		1	1 unit	101	0.166
	4	3TC48	2-pole		C	3TY2 482-0A		1	1 unit	101	0.503
	8	3TC52			C	3TY2 522-0A		1	1 unit	101	1.205
	12	3TC56			C	3TY2 562-0A		1	1 unit	101	2.129
Magnetic coils											
DC operation											
2	3TC44			C	3TY6 443-0B..		1	1 unit	101	0.300	
4	3TC48			C	3TY6 483-0B..		1	1 unit	101	1.000	
8	3TC52			C	3TY6 523-0B..		1	1 unit	101	2.300	
12	3TC56			C	3TY6 563-0B..		1	1 unit	101	4.800	
AC operation											
2	3TC44			C	3TY7 403-0A..		1	1 unit	101	0.100	
4	3TC48			C	3TY6 483-0A..		1	1 unit	101	0.200	
8	3TC52			C	3TY6 523-0A..		1	1 unit	101	0.350	
12	3TC56			C	3TY6 566-0A..		1	1 unit	101	0.650	

1) Can only be mounted on AC-operated contactors.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

For contactor	Version	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		V AC/DC							kg
Varistors									
3TC7	For sticking onto the contactor base	24 110	C C	3TX2 746-2F 3TX2 746-2G		1 1	1 unit 1 unit	101 101	0.011 0.011
Contacts with fixing parts									
3TC7	Main contacts (1 set) For 3TC78: 2 units required per contactor		B	3TY2 740-0E		1	1 set	101	0.356
Auxiliary switch blocks									
3TC74	4 NO +4 NC		B	3TY2 741-2J		1	1 unit	101	0.265
3TC78	Auxiliary contact, left, with 2 NO +2 NC		C	3TY2 781-2C		1	1 unit	101	0.186
	Auxiliary contact, right, with 2 NO +2 NC		C	3TY2 781-2D		1	1 unit	101	0.184
Arc chutes									
3TC7	For 3TC78: 2 units required per contactor		C	3TY2 742-0C		1	1 unit	101	3.916

For contactor	Contacts Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type	NO	NC	NC				kg
								

Auxiliary switch blocks

With screw terminals



3TY7 561-1.

14	3TF68 and 3TF69	1	1	--	1st auxiliary switch block, left or right Replacement for: 3TY7 561-1A/-1B.	B	3TY7 561-1AA00		1	1 unit	101	0.048
		1	--	1	Auxiliary switch block, left or right	B	3TY7 561-1EA00		1	1 unit	101	0.048
		1	1	--	2nd auxiliary switch block, left or right Replacement for: 3TY7 561-1K/-1L.	B	3TY7 561-1KA00		1	1 unit	101	0.050

For coil reconnection with DC economy circuit, with screw terminals

14	3TF68 and 3TF69	--	--	1	Auxiliary contact block	C	3TY7 681-1G		1	1 unit	101	0.050
----	-----------------	----	----	---	-------------------------	---	--------------------	--	---	--------	-----	-------

For contactor	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type							kg

Magnetic coils

AC operation



3TY7.

14	3TF68	The coils are fitted as standard with varistors against overvoltage. The coil is supplied with switch-on electronics.	C	3TY7 683-0C..		1	1 unit	101	0.650
	3TF69		C	3TY7 693-0C..		1	1 unit	101	0.650

DC operation - DC economy circuit

14	3TF68	Reversing contactors are required for size 14 contactors: Contactor type 3TF68 and 3TF69 Reversing contactor 3TC44 (70 mm wide, 85 mm high) The coils are supplied without reversing contactor.	C	3TY7 683-0D..		1	1 unit	101	0.560
	3TF69		C	3TY7 693-0D..		1	1 unit	101	0.560

Vacuum interrupters

In order to ensure reliable operation of the contactors, only **original replacement interrupters from Siemens** should be used.

14	3TF68	3 vacuum interrupters with mounting parts	B	3TY7 680-0B		1	1 set	101	3.490
	3TF69		B	3TY7 690-0B		1	1 set	101	3.638

For rated control supply voltages for coils, see page 3/146.

For solid-state compatible auxiliary switch blocks, see page 3/135.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

Version	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	V AC							kg
Reversing contactors (3TC44)								
Complete with resistor and 1 m connecting lead and connector for 3TF68 ...Q, 3TF69 ...Q	110 ... 120	C	3TY7 684-0QG7		1	1 unit	101	1.000
	220 ... 240	C	3TY7 684-0QL7		1	1 unit	101	1.000
	380 ... 420	C	3TY7 684-0QV7		1	1 unit	101	1.000
Magnetic coils for main contactor, with rectifier bridge								
For 3TF68 ...Q	110 ... 120	C	3TY7 683-0QG7		1	1 unit	101	2.700
	220 ... 240	C	3TY7 683-0QL7		1	1 unit	101	1.509
	380 ... 420	C	3TY7 683-0QV7		1	1 unit	101	1.460
For 3TF69 ...Q	110 ... 120	C	3TY7 693-0QG7		1	1 unit	101	0.650
	220 ... 240	C	3TY7 693-0QL7		1	1 unit	101	1.455
	380 ... 420	C	3TY7 693-0QV7		1	1 unit	101	1.431

For rated control supply voltages for coils, see page 3/146.

For solid-state compatible auxiliary switch blocks, see page 3/135.

For contactor	Version	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type		V AC							kg
Surge suppressors · RC elements									
3TK10 to 3TK13		24 ... 48	D	3TK19 30-0A		1	1 unit	101	0.033
		110 ... 415	B	3TK19 30-0B		1	1 unit	101	0.039
3TK14 to 3TK17		48 ... 110	C	3TK19 34-0C		1	1 unit	101	0.042
		220 ... 600	B	3TK19 34-0D		1	1 unit	101	0.044
Terminal covers									
3TK10, 3TK11	For mounting onto contactors		B	3TK19 40-0A		1	2 units	101	0.141
3TK12, 3TK13		B	3TK19 42-0A		1	2 units	101	0.113	
3TK14, 3TK15		B	3TK19 44-0A		1	2 units	101	0.190	
3TK17		B	3TK19 46-0A		1	2 units	101	0.203	
Auxiliary switch blocks									
3TK1	1st auxiliary switch block, left or right	1 NO + 1 NC	B	3TK19 10-3A		1	1 unit	101	0.055
		1 NO + 1 NC	B	3TK19 10-3B		1	1 unit	101	0.055
Locking devices									
3TK10, 3TK11	For mechanical interlocking of 2 identical contactors, auxiliary contacts 2 NC		B	3TK19 20-0A		1	1 unit	101	0.144
3TK12, 3TK13		B	3TK19 22-0A		1	1 unit	101	0.143	
3TK14, 3TK15, 3TK17	Mechanical interlock, including mounting plate		B	3TK19 24-0A		1	1 unit	101	6.750
Arc chutes									
3TK10	1 arc chute, 4-pole		D	3TK19 50-0A		1	1 unit	101	0.055
3TK11		D	3TK19 51-0A		1	1 unit	101	0.065	
3TK12		D	3TK19 52-0A		1	1 unit	101	1.250	
3TK13		D	3TK19 53-0A		1	1 unit	101	1.384	
3TK14		D	3TK19 54-0A		1	1 unit	101	0.001	
3TK15		D	3TK19 55-0A		1	1 unit	101	3.681	
3TK17		D	3TK19 57-0A		1	1 unit	101	3.785	
Magnetic coils									
3TK10, 3TK11			D	3TK19 70-0A..		1	1 unit	101	0.350
3TK12, 3TK13		D	3TK19 72-0A..		1	1 unit	101	0.450	
3TK14, 3TK15, 3TK17		D	3TK19 74-0A..		1	1 unit	101	0.950	
Contacts with fixing parts									
3TK10	4 moving and 8 fixed contacts		D	3TK19 60-0A		1	1 unit	101	0.254
3TK11		D	3TK19 61-0A		1	1 unit	101	0.275	
3TK12		D	3TK19 62-0A		1	1 unit	101	0.573	
3TK13		D	3TK19 63-0A		1	1 unit	101	0.582	
3TK14		D	3TK19 64-0A		1	1 unit	101	2.354	
3TK15		D	3TK19 65-0A		1	1 unit	101	2.356	
3TK17		D	3TK19 67-0A		1	1 unit	101	2.311	

For rated control supply voltages for coils, see page 3/146.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Spare parts for 3TB, 3TC, 3TF, 3TK contactors

For contactor type	3TC44	3TC48	3TC5	3TF68/69	3TK10/11/12/13	3TK14/15/17
Coil type	3TY7 403-0A..	3TY6 483-0A..	3TY6 523-0A.. 3TY6 566-0A..	3TY7 683-0C.. 3TY7 693-0C..	3TK19 70-0A.. 3TK19 72-0A..	3TK19 74-0A..

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

AC operation · Coils for 50 Hz

24 V AC	B0	B0	--	--	B0³⁾	--
110 V AC	F0	F0	F0¹⁾	--	F0³⁾	F0³⁾
230/220 V AC	P0¹⁾	P0¹⁾	--	--	P0³⁾	P0³⁾
240 V AC	U0	U0	--	--	U0³⁾	U0³⁾

AC operation · Coils for 50/60 Hz

24 V AC	C2	--	--	--	--	--
110 V AC	G2	--	--	--	--	--
120 V AC	K2	--	--	--	--	--
220 V AC	N2	--	--	--	--	--
230 V AC	L2	--	--	--	--	--
110 V ... 132 V AC	--	--	--	F7	--	--
200 V ... 240 V AC	--	--	--	M7	--	--
230 V ... 277 V AC	--	--	--	P7²⁾	--	--
380 V ... 460 V AC	--	--	--	Q7	--	--
500 V ... 600 V AC	--	--	--	S7	--	--

For contactor type	3TC4	3TB5, 3TC5	3TF68/69
Coil type	3TY6 443-0B.. 3TY6 483-0B..	3TY6 503-0B.. 3TY6 523-0B.. 3TY6 543-0B.. 3TY6 563-0B..	3TY7 683-0D.. 3TY7 693-0D..

Rated control supply voltages (the 10th and 11th position of the order number must be changed)

DC operation

24 V DC	B4	B4	B4
48 V DC	W4	--	--
60 V DC	E4	--	--
110 V DC	F4	F4	F4
125 V DC	G4	--	G4
220 V DC	M4	M4	M4
230 V DC	P4	--	P4

- Operating range at 220 V or 380 V:
0.85 to 1.15 × U_s ;
lower operating range limit according to IEC 60947.
- Lower operating range limit at 220 V:
0.85 × U_s according to IEC 60947.
- Rated control supply voltages U_s :
50 Hz 60 Hz
B0: 24 V --
F0: 110 V 120 V
P0: 220 V to 230 V 240 V (only 3TK19 74)
U0: 230 V to 240 V --