

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				
400 V	400 V											
A	kW	NO	NC	V DC								kg
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.

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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 _U : 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	Rating of induction motors at 50 Hz 400 V kW	Ident. No.	Version	NO	NC	V DC	Order No.	Price per PU			kg
A											
For screw and snap-on mounting onto 35 mm standard mounting rail											
Size S0											
17	7.5	--	--	--	--	24	3RT10 25-3XB40-0LA2		1	1 unit	0.340
		--	--	--	--	110	3RT10 25-3XF40-0LA2		1	1 unit	0.645
25	11	--	--	--	--	24	3RT10 26-3XB40-0LA2		1	1 unit	0.630
		--	--	--	--	110	3RT10 26-3XF40-0LA2		1	1 unit	0.639
Size S2											
32	15	--	--	--	--	24	3RT10 34-3XB40-0LA2		1	1 unit	1.466
		--	--	--	--	110	3RT10 34-3XF40-0LA2		1	1 unit	1.500
40	18.5	--	--	--	--	24	3RT10 35-3XB40-0LA2		1	1 unit	1.486
		--	--	--	--	110	3RT10 35-3XF40-0LA2		1	1 unit	1.515
50	22	--	--	--	--	24	3RT10 36-3XB40-0LA2		1	1 unit	1.489
		--	--	--	--	110	3RT10 36-3XF40-0LA2		1	1 unit	1.466
For screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail											
Size S3											
65	30	--	--	--	--	24	3RT10 44-3XB40-0LA2		1	1 unit	2.855
		--	--	--	--	110	3RT10 44-3XF40-0LA2		1	1 unit	2.787
80	37	--	--	--	--	24	3RT10 45-3XB40-0LA2		1	1 unit	2.720
		--	--	--	--	110	3RT10 45-3XF40-0LA2		1	1 unit	2.720
95	45	--	--	--	--	24	3RT10 46-3XB40-0LA2		1	1 unit	2.913
		--	--	--	--	110	3RT10 46-3XF40-0LA2		1	1 unit	2.913

1) Auxiliary switch blocks mountable as standard contactors.

* You can order this quantity or a multiple thereof.

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

Contactors with Extended Tolerance $0.7 \dots 1.25 \times U_s$, 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.
	Opera- tional current I_e at 400 V A	Ratings of induction motors at 230 V 400 V 500 V 690 V													
		kW	kW	kW	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		1	1 unit	101	6.674
										3TB50 17-0LF4		1	1 unit	101	6.640
8	170	55	90	110	132	2	1	24 110	C C	3TB52 17-0LB4		1	1 unit	101	9.250
										3TB52 17-0LF4		1	1 unit	101	9.222
10	250	75	132	160	200	2	1	24 110	C C	3TB54 17-0LB4		1	1 unit	101	16.800
										3TB54 17-0LF4		1	1 unit	101	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	Rating of AC loads at				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.
		750 V	220 V	440 V	600 V	750 V										
		A	kW	kW	kW	kW	NO	NC	V DC							kg
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	1.310
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	3.710
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	10.830
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	18.190

1) The number of auxiliary contacts cannot be increased.

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



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					Version									
		110 V	220 V	440 V	600 V	750 V										
	A	kW	kW	kW	kW	kW	NO	NC	V							kg

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	▶	3TC44 17-0AB4		1	1 unit	101	1.050
									110 DC	▶	3TC44 17-0AF4		1	1 unit	101	1.046
									220 DC	▶	3TC44 17-0AM4		1	1 unit	101	1.050

Screw mounting

4	75	6.5	13	27	38	45	2	2	24 DC	▶	3TC48 17-0AB4		1	1 unit	101	4.680
									110 DC	▶	3TC48 17-0AF4		1	1 unit	101	4.745
									220 DC	A	3TC48 17-0AM4		1	1 unit	101	4.513
8	220 ⁴⁾	20	41	82	110	110	2	2	24 DC	C	3TC52 17-0AB4		1	1 unit	101	10.589
									110 DC	C	3TC52 17-0AF4		1	1 unit	101	9.826
									220 DC	C	3TC52 17-0AM4		1	1 unit	101	9.878
12	400	35	70	140	200	250	2	2	24 DC	C	3TC56 17-0AB4		1	1 unit	101	17.870
									110 DC	C	3TC56 17-0AF4		1	1 unit	101	19.318
									220 DC	C	3TC56 17-0AM4		1	1 unit	101	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⁾	▶	3TC44 17-0BP0		1	1 unit	101	0.673
									110 / 110 AC	▶	3TC44 17-0BF0		1	1 unit	101	0.683

Screw mounting

4	75	6.5	13	27	38	45	2	2	220 / 230 AC ⁵⁾	▶	3TC48 17-0BP0		1	1 unit	101	3.447
									110 AC	C	3TC48 17-0BF0		1	1 unit	101	3.487
8	220 ⁴⁾	20	41	82	110	110	2	2	220 / 230 AC ⁵⁾	A	3TC52 17-0BP0		1	1 unit	101	7.005
									110 AC	C	3TC52 17-0BF0		1	1 unit	101	7.041
12	400	35	70	140	200	250	2	2	220 / 230 AC ⁵⁾	C	3TC56 17-0BP0		1	1 unit	101	14.437
									110 AC	C	3TC56 17-0BF0		1	1 unit	101	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	Rated operating voltage	
Type	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	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: $1.14 \times U_s$.

Contactor 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.

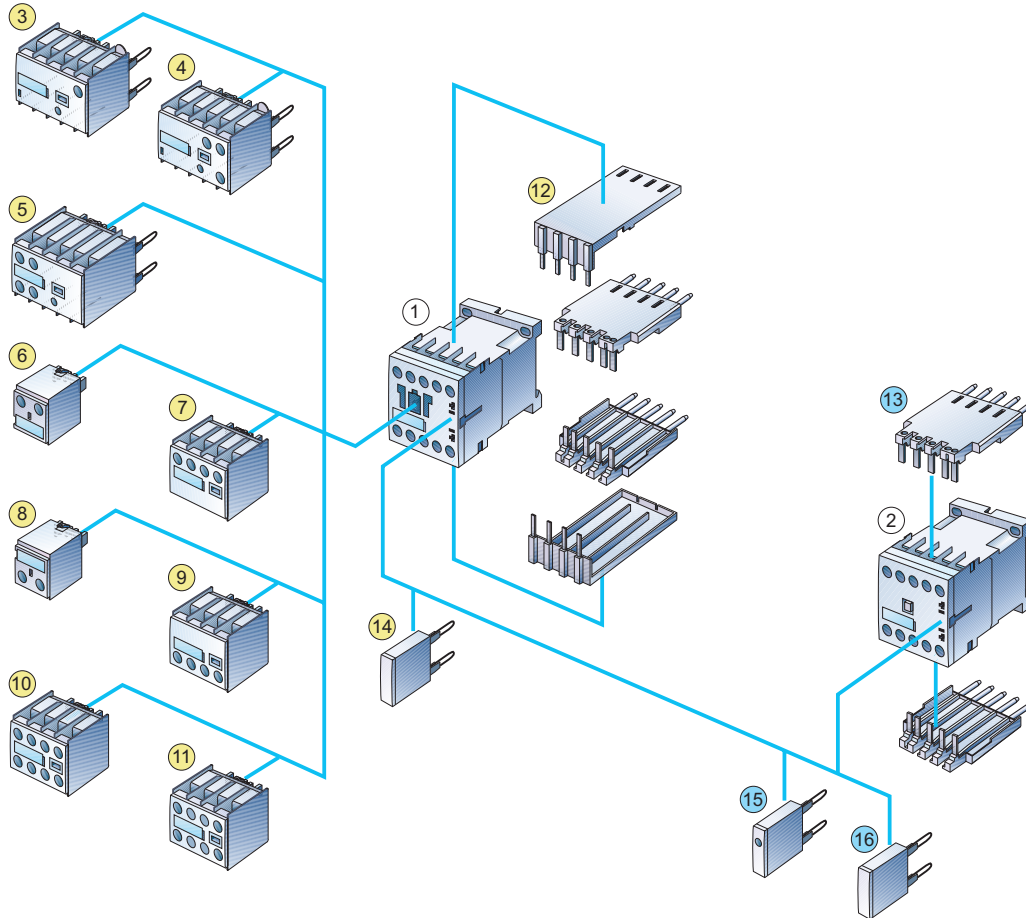
Contactor relays and coupling relays
Size S00 with accessories

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_e /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.
	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 40-1AB00	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

6	40 E	4	--	DC							
				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 x U_s
at 60 Hz: 0.85 to 1.1 x 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	--	24 110 230	▶ ▶ ▶	3RH11 40-2AB00 3RH11 40-2AF00 3RH11 40-2AP00	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.201 0.199 0.200
	31 E	3	1	24 110 230	▶ ▶ ▶	3RH11 31-2AB00 3RH11 31-2AF00 3RH11 31-2AP00	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.200 0.199 0.199
	22 E	2	2	24 110 230	▶ ▶ ▶	3RH11 22-2AB00 3RH11 22-2AF00 3RH11 22-2AP00	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.201 0.200 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	--	24 220	▶ B	3RH11 40-2BB40 3RH11 40-2BM40	1 1	1 unit 1 unit	101 101	0.260 0.257
	31 E	3	1	24 220	▶ B	3RH11 31-2BB40 3RH11 31-2BM40	1 1	1 unit 1 unit	101 101	0.259 0.254
	22 E	2	2	24 220	▶ B	3RH11 22-2BB40 3RH11 22-2BM40	1 1	1 unit 1 unit	101 101	0.261 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 x U_s
at 60 Hz: 0.85 to 1.1 x U_s .

* You can order this quantity or a multiple thereof.

3RH, 3TH Contactor Relays

3RH1 contactor relays, 4- and 8-pole

Contactor	Type	3RH11
Rated control supply voltages (the 10th and 11th position of the order number must be changed)		
AC operation		DC operation
Coils for AC 50 and 60 Hz		Rated control supply voltage U_s
Rated control supply voltage U_s	Control supply voltage at	
V AC 50/60 Hz¹⁾	V AC 60 Hz	Option
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 .

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.
	Ident. No. acc. to Version EN 50011								
A	NO NC 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 x U_s
at 60 Hz: 0.85 to 1.1 x 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 690/ 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 x 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_e /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	--	--	--	▶	3TH43 10-0AP0	1	1 unit	101	0.465
					91 E	9	1	--	--	▶	3TH43 91-0AP0	1	1 unit	101	0.465
					82 E	8	2	--	--	▶	3TH43 82-0AP0	1	1 unit	101	0.465
					73 E	7	3	--	--	▶	3TH43 73-0AP0	1	1 unit	101	0.463
					73 E,U	6	2	1	1	▶	3TH43 46-0AP0	1	1 unit	101	0.466
					64 E	6	4	--	--	▶	3TH43 64-0AP0	1	1 unit	101	0.462
					55 E	5	5	--	--	▶	3TH43 55-0AP0	1	1 unit	101	0.463
					55 E,U	4	4	1	1	▶	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	--	--	--	▶	3TH43 10-0BB4	1	1 unit	101	0.710
					91 E	9	1	--	--	▶	3TH43 91-0BB4	1	1 unit	101	0.707
					82 E	8	2	--	--	▶	3TH43 82-0BB4	1	1 unit	101	0.705
					73 E	7	3	--	--	▶	3TH43 73-0BB4	1	1 unit	101	0.697
					73 E U	6	2	1	1	▶	3TH43 46-0BB4	1	1 unit	101	0.706
					64 E	6	4	--	--	▶	3TH43 64-0BB4	1	1 unit	101	0.708
					55 E	5	5	--	--	▶	3TH43 55-0BB4	1	1 unit	101	0.705
					55 E U	4	4	1	1	▶	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		Control supply voltage at		Coils for AC 50 and 60 Hz		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	Option
24	29	B0	24	C2	12	A4
36	42	G0	42	D2	24	B4
42	50	D0	110	G2	30	C4
48	58	H0	115	J2	36	V4
60	72	E0	120	K2	42	D4
110	132	F0	220	N2	48	W4
125/127	150/152	L0	230	L2	60	E4
230/220	276	P0 ¹⁾	240	P2	110	F4
240	288	U0	440	R2	125	G4
400/380	480/460	V0 ¹⁾			220	M4
415	500	R0			230	P4
500	600	S0			240	Q4
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 .

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 690/ 220 V 380 V	Ident. No. Version acc. to EN 50011							
Number	A A A A	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)

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

3TH20 ...3...

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)

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

3TH20 ...7...

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)

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

3TH20...-6...

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. acc. to EN 50011	Version						
Number	A A A A		NO NC						kg

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...
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	60 Hz	
V AC	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	60 Hz	
V AC	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_{e1} /AC-15/AC-14 at 230 V	Auxiliary contacts	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		Ident. No. acc. to EN 50011	Version	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 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 31 E 22 E	4 3 2	-- 1 2	▶ ▶ ▶	3RH11 40-1HB40 3RH11 31-1HB40 3RH11 22-1HB40	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.258 0.258 0.259
Built-in diode	6	40 E 31 E 22 E	4 3 2	-- 1 2	▶ ▶ ▶	3RH11 40-1JB40 3RH11 31-1JB40 3RH11 22-1JB40	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.258 0.259 0.260
Built-in varistor	6	40 E 31 E 22 E	4 3 2	-- 1 2	▶ ▶ ▶	3RH11 40-1KB40 3RH11 31-1KB40 3RH11 22-1KB40	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.259 0.259 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 31 E 22 E	4 3 2	-- 1 2	B B A	3RH11 40-1MB40-OKT0 3RH11 31-1MB40-OKT0 3RH11 22-1MB40-OKT0	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.259 0.259 0.262
Built-in diode	6	40 E 31 E 22 E	4 3 2	-- 1 2	B A B	3RH11 40-1VB40 3RH11 31-1VB40 3RH11 22-1VB40	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.260 0.260 0.261
Built-in varistor	6	40 E 31 E 22 E	4 3 2	-- 1 2	B A A	3RH11 40-1WB40 3RH11 31-1WB40 3RH11 22-1WB40	1 1 1	1 unit 1 unit 1 unit	101 101 101	0.260 0.260 0.261

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

* You can order this quantity or a multiple thereof.

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.
		Ident. No. acc. to EN 50011	Version	Order No.	Price per PU			
	A		NO NC					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 40-2MB40-0KT0	1	1 unit	101	0.255
		31 E	3	1	B	3RH11 31-2MB40-0KT0	1	1 unit	101	0.255
		22 E	2	2	B	3RH11 22-2MB40-0KT0	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_{θ} 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 01	1 --	-- 1	▶ ▶	3RT10 15-1HB41 3RT10 15-1HB42	1 1	1 unit 1 unit	101 101	0.259 0.258
Built-in diode	7	3	10 01	1 --	-- 1	▶ ▶	3RT10 15-1JB41 3RT10 15-1JB42	1 1	1 unit 1 unit	101 101	0.259 0.261
Built-in varistor	7	3	10 01	1 --	-- 1	▶ ▶	3RT10 15-1KB41 3RT10 15-1KB42	1 1	1 unit 1 unit	101 101	0.261 0.259
Diode, varistor or RC element, attachable	9	4	10 01	1 --	-- 1	▶ ▶	3RT10 16-1HB41 3RT10 16-1HB42	1 1	1 unit 1 unit	101 101	0.258 0.260
Built-in diode	9	4	10 01	1 --	-- 1	▶ ▶	3RT10 16-1JB41 3RT10 16-1JB42	1 1	1 unit 1 unit	101 101	0.261 0.261
Built-in varistor	9	4	10 01	1 --	-- 1	▶ ▶	3RT10 16-1KB41 3RT10 16-1KB42	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	A B	3RT10 17-1HB41 3RT10 17-1HB42	1 1	1 unit 1 unit	101 101	0.260 0.260
Built-in diode	12	5.5	10 01	1 --	-- 1	▶ ▶	3RT10 17-1JB41 3RT10 17-1JB42	1 1	1 unit 1 unit	101 101	0.258 0.258
Built-in varistor	12	5.5	10 01	1 --	-- 1	▶ ▶	3RT10 17-1KB41 3RT10 17-1KB42	1 1	1 unit 1 unit	101 101	0.261 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.
	Opera- tional current I_{θ} 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
			NO	NC							

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 $U_s = 24$ 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	7	3	10 01	-- 1	1 --	▶ ▶	3RT10 15-2HB41 3RT10 15-2HB42	1 1	1 unit 1 unit	101 101	0.254 0.254
Built-in diode	7	3	10 01	-- 1	1 --	▶ ▶	3RT10 15-2JB41 3RT10 15-2JB42	1 1	1 unit 1 unit	101 101	0.255 0.255
Built-in varistor	7	3	10 01	-- 1	1 --	▶ ▶	3RT10 15-2KB41 3RT10 15-2KB42	1 1	1 unit 1 unit	101 101	0.257 0.256
Diode, varistor or RC element, attachable	9	4	10 01	-- 1	1 --	B B	3RT10 16-2HB41 3RT10 16-2HB42	1 1	1 unit 1 unit	101 101	0.254 0.256
Built-in diode	9	4	10 01	-- 1	1 --	▶ ▶	3RT10 16-2JB41 3RT10 16-2JB42	1 1	1 unit 1 unit	101 101	0.256 0.256
Built-in varistor	9	4	10 01	-- 1	1 --	▶ ▶	3RT10 16-2KB41 3RT10 16-2KB42	1 1	1 unit 1 unit	101 101	0.255 0.255
Diode, varistor or RC element, attachable	12	5.5	10 01	-- 1	1 --	B B	3RT10 17-2HB41 3RT10 17-2HB42	1 1	1 unit 1 unit	101 101	0.257 0.253
Built-in diode	12	5.5	10 01	-- 1	1 --	▶ ▶	3RT10 17-2JB41 3RT10 17-2JB42	1 1	1 unit 1 unit	101 101	0.255 0.256
Built-in varistor	12	5.5	10 01	-- 1	1 --	▶ ▶	3RT10 17-2KB41 3RT10 17-2KB42	1 1	1 unit 1 unit	101 101	0.256 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				kg

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		Order No.	Price per PU				kg
			NO	NC							

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

Size S00



3RT10 1.-2WB4.

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 15-2MB41-0KT0 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 NO NC	Order No. Price per PU				kg

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

Size S0



3RT10 2.-1KB40

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

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 NO NC	Order No. Price per PU				kg

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

Size S0



3RT10 2.-3KB40

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

For accessories, see page 3/112.

* You can order this quantity or a multiple thereof.

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 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 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									
24	1	--	11.5	▶ 3TX7 002-1AB00		1	1 unit	101	0.033
	1 ¹⁾	--		▶ 3TX7 002-1AB02		1	1 unit	101	0.032
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									
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									
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 005 relay couplers with spring-loaded terminals

Output coupling links										
24	--	1	without	6.2	▶	3TX7 005-1LB00		1	1 unit	101 0.028
230	--	1	without	6.2	▶	3TX7 005-1LF00		1	1 unit	101 0.030
24	--	1 ²⁾	without	6.2	▶	3TX7 005-1LB02		1	1 unit	101 0.028
24	1	--	without	6.2	▶	3TX7 005-1MB00		1	1 unit	101 0.034
230	1	--	without	6.2	▶	3TX7 005-1MF00		1	1 unit	101 0.034
Input coupling links										
24	1 ²⁾	--	without	6.2	C	3TX7 005-2MB02		1	1 unit	101 0.034
230	1 ²⁾	--	without	6.2	B	3TX7 005-2MF02		1	1 unit	101 0.034

3TX7 004-1LB0.

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
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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

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
3TX7 014-1AM00										
Plug-in relays with screw terminals, 6.2 mm, complete with relay and hard gold-plating ¹⁾										
	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-plating ¹⁾										
	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.

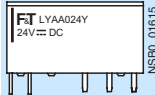
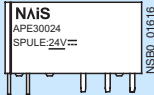
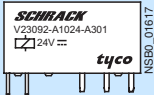
3TX7, 3RS18 Coupling Relays

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 Complete units, 24 V AC/DC, hard gold-plated	A A	3TX7 014-7BQ00 3TX7 014-7BQ02		1 1	20 units 20 units	101 101	0.035 0.035
24 DC	Complete units 24 V DC Complete units 24 V DC, hard gold-plated	A A	3TX7 014-7BM00 3TX7 014-7BM02		1 1	20 units 20 units	101 101	0.035 0.035
60 DC	Complete units 115 V and 230 V AC/DC Complete units 115 V and 230 V AC/DC, hard gold-plated	A A	3TX7 014-7BP00 3TX7 014-7BP02		1 1	20 units 20 units	101 101	0.035 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	Version	A	mm							kg
V										
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											kg
V	V	A		mm							
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

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											
	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	
	Complete units, 8-pole, 5 mm pinning, RT series										
	Complete units with socket For snap-on mounting onto 35 mm standard mounting rail Consisting of: Print relay, standard socket, LED module (24-V-DC-LED module 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											
	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												
 LZX:RT314024	Individual modules for customer assembly											
	Print relays • With hard gold-plating	24 DC	1	12.7	C	LZX:RT315024		1	1 unit	101	0.016	
		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	0.016	
		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	
Standard sockets for mounting onto standard mounting rail	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		
	--	--	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
Accessories for RT												
LED modules												
• Red		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	0.003
• Green		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	0.003
Fixing/ejection brackets		--	--		C	LZX:RY16016		100	10 units	101	0.100	
 LZX:RY16040	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											
	Individual modules for customer assembly											
	 LZX:RY78626	Print relays Label on relay: RY213024, RY613024 or JS24N-K	24 DC	1	10.7	C	LZX:RY213024		1	1 unit	101	0.009
			Sockets with logical isolation, for mounting onto standard mounting rail	--	--	15.5	C	LZX:RY78626		1	1 unit	101
		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

Individual modules for customer assembly

Mini industrial relays

- With test bracket and mechanical contact position indicator, without LED¹⁾

LZX:PT570024	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
LZX:PT78702	24 DC	4	22.5	▶	LZX:PT580024	1	1 unit	101	0.031
	230 AC			▶	LZX:PT580730	1	1 unit	101	0.031
LZX:PT78702	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

Accessories for PT

LED modules

• 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

• 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
----	----	----	---	-------------	-----	----------	-----	-------

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⁾

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

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
	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
	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 Utilization category				Main contacts	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
AC -1 Switching of resistive loads at 55 °C		AC-2 and AC-3		Version 								
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									
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	A	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	D	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".

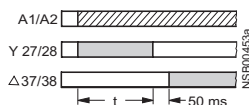
Solid-state time-delay auxiliary switch block

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.

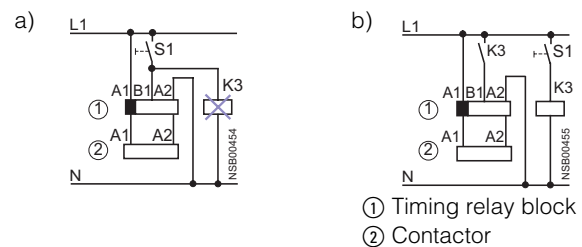
The solid-state, time-delay block cannot be mounted on size S00 coupling relays.

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.

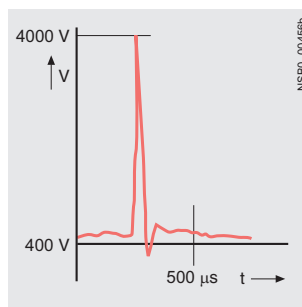
Note:

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

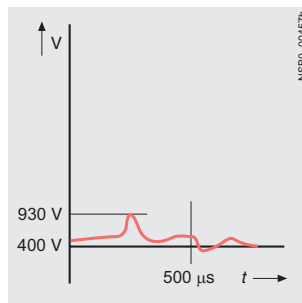
Since the EMC interference suppression module achieves a significant reduction in radio-frequency components and the voltage level in three phases, the contact endurance is also improved considerably. This makes an important contribution towards enhancing the reliability and availability of the system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

Dispensing with fine graduations

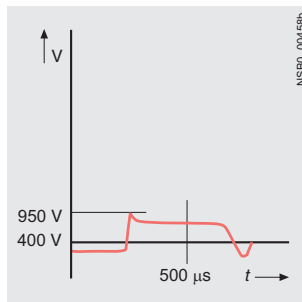
There is no need for fine graduations within each performance class, as smaller motors inherently have a higher inductance, so that one solution for all fixed-speed drives up to 5.5 kW is adequate.

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,	11 E	--	1	--	--	▶	3RH19 11-1HA01	1	1 unit	101	0.035
3RT10 1.-2...1	22 E	1	2	--	--	▶	3RH19 11-1HA12	1	1 unit	101	0.046
Ident. No. 10 E	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,	31	3	1	--	--	▶	3RH19 21-1HA31	1	1 unit	101	0.074
3RT1. 3 ... 3RT1. 7	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,	20	2	--	--	--	▶	3RH19 11-1FA20	1	1 unit	101	0.041
3RH11,	11	1	1	--	--	▶	3RH19 11-1FA11	1	1 unit	101	0.041
3RH14	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,	--	1	--	--	--	▶	3RH19 11-1AA10	1	1 unit	101	0.016
3RH11,	--	--	1	--	--	▶	3RH19 11-1AA01	1	1 unit	101	0.016
3RH14	--	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,	--	1	--	--	--	▶	3RH19 11-1BA10	1	1 unit	101	0.015
3RH11,	--	--	1	--	--	▶	3RH19 11-1BA01	1	1 unit	101	0.016
3RH14	--	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.

* 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 11-2HA .



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
		NO NC NO NC					

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
	22 ²⁾	2	2	--	--	D	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
	NO NC NO NC						

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
	NO NC NO NC						

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.

Version

Order No.

Price
per PU

Type

NO

NC

kg

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

* 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 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	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	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	 NO  NO  NC  NC		Order No. Price per PU				kg

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

Sizes 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 --	-- -- --	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
-----------------------------	---	--------------	----------------	--------------	-------------	---	-------------	----------------------------	-------------------	-------------------------

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	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 $I_e/AC-14$ 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	--	--	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 $I_e/AC-14$ 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	--	--	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, instantaneous, 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 voltage⁽⁴⁾

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, instantaneous, 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

1) The AC voltages are valid for 50 Hz and 60 Hz.

2) Cannot be fitted onto coupling relays.

3) 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

4) 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.

5) 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.

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...	3RT1. 1, 3RH11 ¹⁾ 3RH14	For mounting onto the front of contactors							
		• ON-delay (varistor integrated)							
		24 ... 66 AC/DC	0.05 ... 1	B	3RT19 16-2CG11	1	1 unit	101	0.051
			0.5 ... 10	▶	3RT19 16-2CG21	1	1 unit	101	0.051
			5 ... 100	B	3RT19 16-2CG31	1	1 unit	101	0.054
		90 ... 240 AC/DC	0.05 ... 1	D	3RT19 16-2CH11	1	1 unit	101	0.052
		0.5 ... 10	▶	3RT19 16-2CH21	1	1 unit	101	0.052	
		5 ... 100	▶	3RT19 16-2CH31	1	1 unit	101	0.051	
	• OFF-delay with auxiliary voltage (varistor integrated)								
	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...	3RT1. 1, 3RH11 ¹⁾ 3RH14	90 ... 240 AC/DC	0.05 ... 1	D	3RT19 16-2DH11	1	1 unit	101	0.053
			0.5 ... 10	▶	3RT19 16-2DH21	1	1 unit	101	0.060
			5 ... 100	B	3RT19 16-2DH31	1	1 unit	101	0.058
Sizes S0 ... S3									
 3RT19 26-2C...	3RT10 2, 3RT10 3, 3RT10 4, 3RT13 ²⁾ 3RT15	For mounting onto coil terminals on top of the contactors							
		• ON-delay (varistor integrated)							
		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
		90 ... 240 AC/DC	0.05 ... 1	▶	3RT19 26-2CH11	1	1 unit	101	0.048
		0.5 ... 10	▶	3RT19 26-2CH21	1	1 unit	101	0.047	
		5 ... 100	▶	3RT19 26-2CH31	1	1 unit	101	0.048	
	• OFF-delay with auxiliary voltage (varistor integrated)								
	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...	3RT10 2, 3RT10 3, 3RT10 4, 3RT13 ²⁾ 3RT15	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	0.114
	3RT1. 1 ... 3RT1. 4, 3RH1 ...-1BB40								
Pneumatic delay blocks, terminal designation according to EN 50005									
 3RT19 26-2P...	3RT1. 2	For mounting onto the front of size S0 ³⁾ 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	3RT1. 2, 3RT1. 3	For mounting on 1 contactor, contactor remains in the energized state even after a voltage failure							
		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.
		AC operation	DC operation							
Type		V AC	V DC							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

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

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	--	24	▶	3RT19 26-1ER00	1	1 unit	101	0.023
		--	30 ... 250	▶	3RT19 26-1ES00	1	1 unit	101	0.024
		--	24	▶	3RT19 26-1TR00	1	1 unit	101	0.024
		--	30 ... 250	A	3RT19 26-1TS00	1	1 unit	101	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

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



3RT19 16-1L0.00

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".

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

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
Type								
Coupling links for control by PLC								
Sizes S0 ... S3								
	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 _g : 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
3RH19 24-1GP11								
LED modules for indicating contactor operation (also for Cage Clamp terminals)								
Sizes S0 ... S12 ¹⁾								
	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
3RT19 26-1QT00 mounted to contactor								
Auxiliary terminals, 3-pole								
Size S3								
	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
3RT19 46-4F								
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.

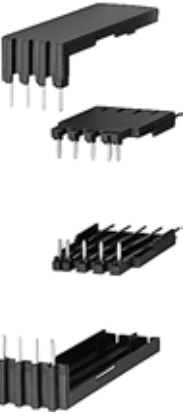
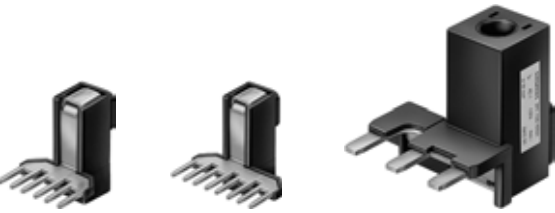
1) For sizes S6 ... S12 the connecting leads have to be extended.

* 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			Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Type										
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										
 NSB0_01470			Size S0 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	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg	
Type	mm ²									
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	

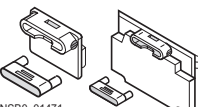
1) The links for paralleling can be reduced by one pole.

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									
		For round and ribbon cables¹⁾							
		S6	3RT1. 5 (3RB10 5)	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
Covers									
		Terminal covers for box terminals							
		S2	3RT10 3	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
		Terminal covers for cable lug and busbar connection³⁾							
		S3	3RT10 4, 3RT14 4	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
				For rail cover between contactor and 3RB10 overload relay or wiring connector for contactor assemblies					
		S6	3RT1. 5	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)	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.

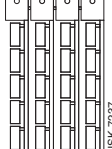
5) The 3RT19 66-4EA3 cover is required in addition for use in contactor assemblies (reversing/wye delta).

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							
 3RT19 16-4JA02	B	3RT19 16-4JA02		100	20 units	101	0.100
Tools for opening Cage Clamp connection							
 8WA2 880	A	8WA2 880		1	1 unit	041	0.012
	A	8WA2 803		1	1 unit	041	0.024
Blank labeling plates							
 3RT19 00-1SB10	D	3RT19 00-1SB10		100	816 units	101	0.239
	C	3RT19 00-1SB20		100	340 units	101	0.220
	D	3RT19 00-1SB60		100	3060 units	101	0.153
	C	3RT19 00-1SD60		100	3060 units	101	0.120
Computer labeling system For individual inscription of device identification labeling plates		Obtainable from: 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	--	--	B	3RT19 24-5AD01	1	1 unit	101	0.092
			48	--	--	A	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	--	B	3RT19 24-5AD21	1	1 unit	101	0.089
			--	48	--	B	3RT19 24-5AH21	1	1 unit	101	0.091
			--	110	--	▶	3RT19 24-5AG21	1	1 unit	101	0.093
			--	220	--	B	3RT19 24-5AN21	1	1 unit	101	0.095
			--	230	--	B	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	0.109
			42	--	--	B	3RT19 34-5AD01	1	1 unit	101	0.110
			48	--	--	B	3RT19 34-5AH01	1	1 unit	101	0.109
			110	--	--	▶	3RT19 34-5AF01	1	1 unit	101	0.114
			230	--	--	A	3RT19 34-5AP01	1	1 unit	101	0.109
			400	--	--	B	3RT19 34-5AV01	1	1 unit	101	0.115
			--	24	--	▶	3RT19 34-5AC21	1	1 unit	101	0.112
			--	42	--	B	3RT19 34-5AD21	1	1 unit	101	0.112
			--	48	--	B	3RT19 34-5AH21	1	1 unit	101	0.114
			--	110	--	B	3RT19 34-5AG21	1	1 unit	101	0.112
			--	220	--	C	3RT19 34-5AN21	1	1 unit	101	0.111
			--	230	--	B	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	--	--	B	3RT19 35-5AD01	1	1 unit	101	0.106
			48	--	--	B	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	--	--	B	3RT19 35-5AV01	1	1 unit	101	0.112
			--	24	--	▶	3RT19 35-5AC21	1	1 unit	101	0.110
			--	42	--	B	3RT19 35-5AD21	1	1 unit	101	0.110
			--	48	--	B	3RT19 35-5AH21	1	1 unit	101	0.108
			--	110	--	A	3RT19 35-5AG21	1	1 unit	101	0.108
			--	220	--	B	3RT19 35-5AN21	1	1 unit	101	0.108
			--	230	--	B	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

* 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



3RT19 24-5A.02

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., 3RT13 2., 3RT15 2.	24	--	--	B	3RT19 24-5AB02		1	1 unit	101	0.093
			42	--	--	C	3RT19 24-5AD02		1	1 unit	101	0.089
			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, 3RT10 36, 3RT13 3., 3RT15 3.	24	--	--	B	3RT19 35-5AB02		1	1 unit	101	0.102
			42	--	--	B	3RT19 35-5AD02		1	1 unit	101	0.088
48			--	--	B	3RT19 35-5AH02		1	1 unit	101	0.085	
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

For contactor		Rated control supply voltage U_s				DT	Screw terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		
		AC				DC								
		50 Hz				60 Hz								
		V				V								
Size	Type	V	V	V	V		Order No.	Price per PU	kg					
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	
		3RT10 45, 3RT10 46, 3RT13 4., 3RT14 46, 3RT15 4.	24	--	--	--	B	3RT19 45-5AB01		1	1 unit	101	0.169	
			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	--	--	--	▶	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		
		--	--	--	220	B	3RT19 34-5BM41		1	1 unit	101	0.617		
		--	--	--	230	B	3RT19 34-5BP41		1	1 unit	101	0.720		
		S3	3RT10 4., 3RT13 4., 3RT14 4., 3RT15 4.	--	--	--	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		

* 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 <i>U_s</i>				DT	Cage Clamp terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
Size	Type	AC		DC			Order No.	Price per PU				kg	
		50 Hz V	50/60 Hz V	60 Hz V	V								
Magnetic coils · AC operation													
 3RT19 45-5A.02	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	
	3RT10 45, 3RT10 46, 3RT13 4., 3RT14 46, 3RT15 4.	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		
		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		
	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
3RT19 55-5A	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
			500 ... 550	C	3RT19 66-5AS31	1	1 unit	101	0.650
			575 ... 600	C	3RT19 66-5AT31	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

* 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 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				kg

Withdrawable coils

Conventional operating mechanism

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

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
	3RT12 6	21 ... 27.3	B	3RT19 66-5NB31	1	1 unit	101	0.650
	Vacuum	96 ... 127	C	3RT19 66-5NF31	1	1 unit	101	0.650
	contactor	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

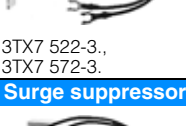
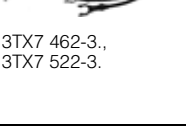
For contactor	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Size	Type							
Arc chutes								
S2	3RT10 3 .	Arc chute, 3-pole	C	3RT19 36-7A	1	1 unit	101	0.112
S3	3RT10 4., 3RT14 46		C	3RT19 46-7A	1	1 unit	101	0.299
S6	3RT10 54 3RT10 55 3RT10 56		B	3RT19 54-7A	1	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

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 suppressors ¹⁾ · Varistors												
	2	3TC44 ²⁾	Varistors ³⁾ With line spacer, for mounting onto the coil terminal	24 ... 48	24 ... 70	A	3TX7 402-3G 3TX7 402-3H 3TX7 402-3J 3TX7 402-3K 3TX7 402-3L		1	1 unit	101	0.015
				48 ... 127	70 ... 150	A			1	1 unit	101	0.015
				127 ... 240	150 ... 250	A			1	1 unit	101	0.015
				240 ... 400	--	C			1	1 unit	101	0.024
				400 ... 600	--	C			1	1 unit	101	0.024
	4 and 6	3TB50 and 3TC56	Varistors ³⁾ For sticking onto the contactor base or for mounting separately	24 ... 48	24 ... 70	D	3TX7 462-3G 3TX7 462-3H 3TX7 462-3J 3TX7 462-3K 3TX7 462-3L		1	1 unit	101	0.013
				48 ... 127	70 ... 150	C			1	1 unit	101	0.014
				127 ... 240	150 ... 250	B			1	1 unit	101	0.014
				240 ... 400	--	A			1	1 unit	101	0.016
				400 ... 600	--	D			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 3TX7 462-3H 3TX7 462-3J 3TX7 462-3K 3TX7 462-3L		1	1 unit	101	0.013
				48 ... 127	--	C			1	1 unit	101	0.014
				127 ... 240	--	B			1	1 unit	101	0.014
				240 ... 400	--	A			1	1 unit	101	0.016
				400 ... 600	--	D			1	1 unit	101	0.016
	8 ... 12	3TB52 ... 3TB56, 3TC52 and 3TC56	Varistors ³⁾ For separate screw connection or snapping onto 35 mm standard mounting rail	--	24 ... 70	B	3TX7 522-3G 3TX7 522-3H 3TX7 522-3J		1	1 unit	101	0.083
				--	70 ... 150	B			1	1 unit	101	0.078
				--	150 ... 250	B			1	1 unit	101	0.084
	14	3TF68 and 3TF69	Varistors ³⁾ For DC economy circuit; for snapping onto the side of auxiliary switches	--	24 ... 48	C	3TX7 572-3G 3TX7 572-3H 3TX7 572-3J		1	1 unit	101	0.075
				--	48 ... 127	C			1	1 unit	101	0.085
				--	127 ... 240	C			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 3TX7 522-3R 3TX7 462-3S 3TX7 522-3S 3TX7 462-3T 3TX7 522-3T 3TX7 462-3U 3TX7 462-3V		1	1 unit	101	0.084
				--	24 ... 70	B			1	1 unit	101	0.080
				48 ... 127	--	A			1	1 unit	101	0.082
				--	70 ... 150	B			1	1 unit	101	0.088
				127 ... 240	--	A			1	1 unit	101	0.081
	6 ... 12	3TB50, 3TC52 and 3TC56	RC elements For lateral snapping onto auxiliary switch or 35 mm standard mounting rail	--	150 ... 250	B	3TX7 522-3R 3TX7 522-3S 3TX7 522-3T 3TX7 522-3U 3TX7 522-3V		1	1 unit	101	0.085
				240 ... 400	--	A			1	1 unit	101	0.084
				400 ... 600	--	C			1	1 unit	101	0.086
	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	3TF68	For mounting onto the side of contactors.	B	3TY7 561-1UA00	1	1 unit	101	0.053	
	2 and 4	3TF69	For use in dusty atmosphere and solid-state circuits with rated operating currents I _o /AC-14 and DC-13 from 1 mA to 300 mA at 3 V to 60 V. With 1 changeover contact.							
		3TC44...	2nd auxiliary switch block, left or right (replacement for 3TY6 561-1U, 3TY6 561-1V)							
		3TC48								
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	For screwing onto free screw end on middle connecting bar.	B	3TX7 686-0A	1	1 set	101	0.410	
		3TF69	2 units required per contactor. (1 set = 2 units)	B	3TX7 696-0A	1	1 set	101	0.402	
3TX7										
	6	3TB50, 3TC48	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
	8 and SIRIUS S6	3TB52, 3RT1.5		M 8	B	3TX6 526-3B	1	1 set	101	0.140
	10 and 14 and SIRIUS S10, S12	3TB54..., 3TB56, 3TC52, 3TC56, 3RT1.6, 3RT1.7		M 10	B	3TX6 546-3B	1	1 set	101	0.260
3TX6 526-3B										
Links for paralleling (star jumper) · 3-pole, without connection terminal ¹⁾										
	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		N N C N O C O C				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 U_s		Power consumption of LED at U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
Type	V AC	V DC	MW							kg	
Surge suppressors for 3TF2 contactors - For plugging onto contactors with and without auxiliary switch blocks											
 3TX4 490-3A	Version without LED										
	RC elements										
	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...											
 3TX4 490-4G	Version with LED										
	Varistors										
	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 blocks ¹⁾											
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_b : 6 A; Ⓢ and ⓈA 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...	3TK20...-7...	For releasing contactors from 3TX4 491-2A plug-in bases			D	3TX4 491-2K		1	1 unit	101	0.010

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
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3-pole, with connection terminal¹⁾³⁾

3TG10	40	25	▶	3RT19 16-4BB31		1	1 unit	101	0.015
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4-pole, with connection terminal¹⁾⁴⁾

3TG10	50	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. 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.

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TH contactor relays

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.
	AC V	DC V							kg

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
	400 ... 600	--	C	3TX7 402-3L		1	1 unit	101	0.024
RC elements With line spacer, for mounting onto the coil terminal	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.
Type		V	s							kg

ON-delay devices

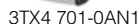


3TX4 180-0A

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 for 3TH contactor relays

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



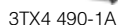
Contacts	Rated operating current I_e /AC-15/AC-14 at	Contacts	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	230/ 400/ 500 V 690/ 220 V 380 V AC 660 V	Ident. No. Version acc. to EN 50011							
Number	A A A A	NO NC NO NC							kg

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

OFF-delay devices (with screw terminals)



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	110 V AC, 50/60 Hz	0.1 s or 0.2 s	B	3TX4 490-1A	1	1 unit	101	0.085
3TH2...-0BM4	220 V AC, 50/60 Hz	0.4 s or 0.8 s						

Accessories and Spare Parts For 3T Contactors and Contactor Relays

Accessories for 3TH contactor relays

For contactor	Rated control supply voltage U_s		Power consumption of LED at U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
Type	V AC	V DC	MW							kg	
Surge suppressors ¹⁾ For plugging onto contactors with and without auxiliary switch blocks											
Version without LED											
	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		
Version with LED											
	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										
		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											
	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 ☼ 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
	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	0.075
			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	

3TY6 520-0A

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		Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type	NO	NC								kg
Auxiliary switch blocks											
	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											
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											
	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
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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:	C	3TY7 683-0D..	1	1 unit	101	0.560
	3TF69	Contractor type 3TF68 and 3TF69 Reversing contactor 3TC44 (70 mm wide, 85 mm high) The coils are supplied without reversing contactor.	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.

* 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

Version	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
V AC								
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
	2nd auxiliary switch block, left or right	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	F0	--	F0³⁾	F0³⁾
230/220 V AC	P0¹⁾	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 --