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 400 V	Rating of induction motors at 50 Hz **400 V**	Ident. No.	Version				Order No.	Price per PU				
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.

*** You can order this quantity or a multiple thereof.**

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**	Ident. No.	Version				Order No.	Price per PU				
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 25-3XB40-0LA2**		1	1 unit	101	0.340
		--	--	--	110	B	**3RT10 25-3XF40-0LA2**		1	1 unit	101	0.645
25	**11**	--	--	--	24	B	**3RT10 26-3XB40-0LA2**		1	1 unit	101	0.630
		--	--	--	110	B	**3RT10 26-3XF40-0LA2**		1	1 unit	101	0.639
Size S2												
32	**15**	--	--	--	24	C	**3RT10 34-3XB40-0LA2**		1	1 unit	101	1.466
		--	--	--	110	B	**3RT10 34-3XF40-0LA2**		1	1 unit	101	1.500
40	**18.5**	--	--	--	24	C	**3RT10 35-3XB40-0LA2**		1	1 unit	101	1.486
		--	--	--	110	B	**3RT10 35-3XF40-0LA2**		1	1 unit	101	1.515
50	**22**	--	--	--	24	B	**3RT10 36-3XB40-0LA2**		1	1 unit	101	1.489
		--	--	--	110	B	**3RT10 36-3XF40-0LA2**		1	1 unit	101	1.466
For screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail												
Size S3												
65	**30**	--	--	--	24	B	**3RT10 44-3XB40-0LA2**		1	1 unit	101	2.855
		--	--	--	110	B	**3RT10 44-3XF40-0LA2**		1	1 unit	101	2.787
80	**37**	--	--	--	24	B	**3RT10 45-3XB40-0LA2**		1	1 unit	101	2.720
		--	--	--	110	B	**3RT10 45-3XF40-0LA2**		1	1 unit	101	2.720
95	**45**	--	--	--	24	B	**3RT10 46-3XB40-0LA2**		1	1 unit	101	2.913
		--	--	--	110	B	**3RT10 46-3XF40-0LA2**		1	1 unit	101	2.913

1) Auxiliary switch blocks mountable as standard contactors.

*** You can order this quantity or a multiple thereof.**

Overview

EN 60947-4-1.

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

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

Application

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

Selection and ordering data

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

Size	Rated data AC-2 and AC-3					Auxiliary contacts[1]		Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	Operational current I_e at	Ratings of induction motors at													
	400 V	230 V	**400 V**	500 V	690 V										
	A	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	C	**3TB50 17-0LB4**		1	1 unit	101	6.674
								110	C	**3TB50 17-0LF4**		1	1 unit	101	6.640
8	170	55	**90**	110	132	2	1	24	C	**3TB52 17-0LB4**		1	1 unit	101	9.250
								110	C	**3TB52 17-0LF4**		1	1 unit	101	9.222
10	250	75	**132**	160	200	2	1	24	C	**3TB54 17-0LB4**		1	1 unit	101	16.800
								110	C	**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.

*** You can order this quantity or a multiple thereof.**

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

3TC contactors for switching DC voltage, 2-pole

Overview

EN 60947-4-1.

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

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

Application

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

Selection and ordering data

With screw terminals
3TC44: for screw and snap-on mounting onto 35 mm standard mounting rail
3TC48 to 3TC56: for screw fixing
Solenoid fitted with varistor

3TC48

Size	Utilization category	Rated operational current I_e at 750 V	Rating of AC loads at 220 V	440 V	600 V	750 V	Auxiliary contacts[1] NO	NC	Rated control supply voltage U_S	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		A	kW	kW	kW	kW			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.

*** You can order this quantity or a multiple thereof.**

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 × 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).

3TC Contactors for Switching DC Voltage

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

Selection and ordering data

3TC44

3TC48

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

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) The following rated operational currents are permitted for reversing duty with 3TC44 to 3TC56 contactors:

Contactor Type	Rated operating voltage 110 V, 220 V	440 V
3TC44	32 A	7 A
3TC48	75 A	75 A
3TC52	170 A	170 A
3TC56	400 A	400 A

4) For > 600 V: I_e = 170 A.

5) Operating range at 220 V: 0.85 to 1.15 x U_S.

*** You can order this quantity or a multiple thereof.**

3TC74

3TC78

Size	Rated data DC-3 and DC-5[1] Operational current I_e	Ratings of DC motors at 110 V	220 V	440 V	600 V	750 V	1200 V	1500 V	Auxiliary contacts[2] NO	NC	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	A	kW	kW	kW	kW	kW	kW	kW			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	C	**3TC74 14-0EB**		1	1 unit	101	10.728
											110 DC	C	**3TC74 14-0EF**		1	1 unit	101	10.660
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
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	C	**3TC78 14-0EB**		1	1 unit	101	22.500
											110 DC	C	**3TC78 14-0EF**		1	1 unit	101	15.960
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

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 x U_s.

Contactor type Rated control supply voltage U_s	**3TC44**	**3TC48**	**3TC52/56**	**3TC74/78**
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 x U_s; lower operating range limit according to IEC 60947.
2) Upper operating range limit at 230 V: 1.14 x U_s.

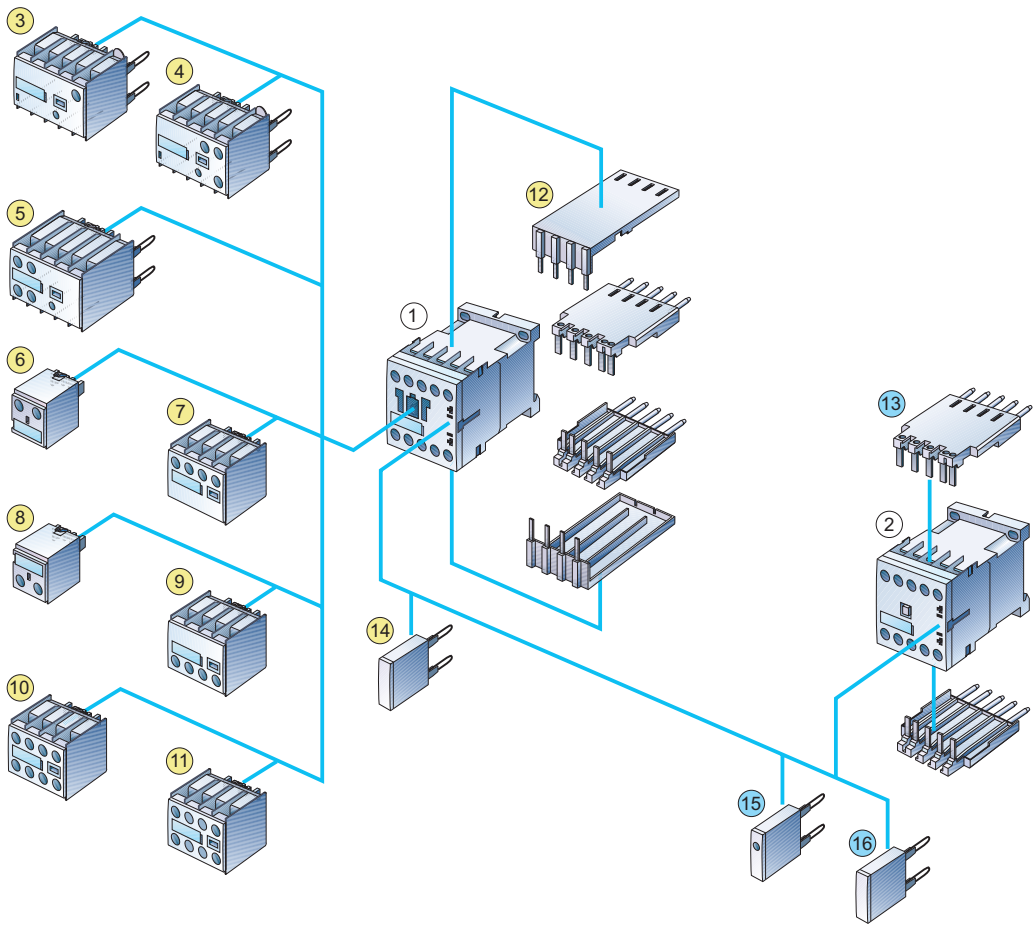
*** You can order this quantity or a multiple thereof.**

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



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

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.

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 Ident. No.	Version NO	Version NC	Rated control supply voltage U_s	DT	Screw terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A				V							kg
For screw and snap-on mounting onto 35 mm standard mounting rail											
AC operation											
				AC 50/60 Hz[1]							
• **Size S00** Terminal designations according to EN 50011											
6	**40 E**	4	--	24	▶	**3RH11 40-1AB00**		1	1 unit	101	0.204
				110	▶	**3RH11 40-1AF00**		1	1 unit	101	0.202
				230	▶	**3RH11 40-1AP00**		1	1 unit	101	0.204
	31 E	3	1	24	▶	**3RH11 31-1AB00**		1	1 unit	101	0.204
				110	▶	**3RH11 31-1AF00**		1	1 unit	101	0.202
				230	▶	**3RH11 31-1AP00**		1	1 unit	101	0.203
	22 E	2	2	24	▶	**3RH11 22-1AB00**		1	1 unit	101	0.203
				110	▶	**3RH11 22-1AF00**		1	1 unit	101	0.202
				230	▶	**3RH11 22-1AP00**		1	1 unit	101	0.204
With permanently mounted auxiliary switch block											
6	**44 E**	4	4	230	▶	**3RH12 44-1AP00**		1	1 unit	101	0.254
	62 E	6	2	230	▶	**3RH12 62-1AP00**		1	1 unit	101	0.251
DC operation · DC solenoid system											
				DC							
6	**40 E**	4	--	24	▶	**3RH11 40-1BB40**		1	1 unit	101	0.264
				220	▶	**3RH11 40-1BM40**		1	1 unit	101	0.261
	31 E	3	1	24	▶	**3RH11 31-1BB40**		1	1 unit	101	0.262
				220	▶	**3RH11 31-1BM40**		1	1 unit	101	0.259
	22 E	2	2	24	▶	**3RH11 22-1BB40**		1	1 unit	101	0.264
				220	▶	**3RH11 22-1BM40**		1	1 unit	101	0.260
With permanently mounted auxiliary switch block											
6	**44 E**	4	4	24	▶	**3RH12 44-1BB40**		1	1 unit	101	0.312
	62 E	6	2	24	▶	**3RH12 62-1BB40**		1	1 unit	101	0.313

For other voltages, see page 3/81.
For accessories, see page 3/110 and 3/113.
For multi-unit packing and reusable packaging, see Appendix -> Ordering Notes.

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

*** You can order this quantity or a multiple thereof.**

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 Ident. No.	Version NO	Version NC	Rated control supply voltage U_s	DT	Cage Clamp terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A				V							kg
For screw and snap-on mounting onto 35 mm standard mounting rail											
AC operation											
				AC 50/60 Hz[1]							
• **Size S00** Terminal designations according to EN 50011											
6	**40 E**	4	--	24	▶	**3RH11 40-2AB00**		1	1 unit	101	0.201
				110	▶	**3RH11 40-2AF00**		1	1 unit	101	0.199
				230	▶	**3RH11 40-2AP00**		1	1 unit	101	0.200
	31 E	3	1	24	▶	**3RH11 31-2AB00**		1	1 unit	101	0.200
				110	▶	**3RH11 31-2AF00**		1	1 unit	101	0.199
				230	▶	**3RH11 31-2AP00**		1	1 unit	101	0.199
	22 E	2	2	24	▶	**3RH11 22-2AB00**		1	1 unit	101	0.201
				110	▶	**3RH11 22-2AF00**		1	1 unit	101	0.200
				230	▶	**3RH11 22-2AP00**		1	1 unit	101	0.199
With permanently mounted auxiliary switch block											
6	**44 E**	4	4	230	B	**3RH12 44-2AP00**		1	1 unit	101	0.253
	62 E	6	2	230	B	**3RH12 62-2AP00**		1	1 unit	101	0.254
DC operation · DC solenoid system											
				DC							
6	**40 E**	4	--	24	▶	**3RH11 40-2BB40**		1	1 unit	101	0.260
				220	B	**3RH11 40-2BM40**		1	1 unit	101	0.257
	31 E	3	1	24	▶	**3RH11 31-2BB40**		1	1 unit	101	0.259
				220	B	**3RH11 31-2BM40**		1	1 unit	101	0.254
	22 E	2	2	24	▶	**3RH11 22-2BB40**		1	1 unit	101	0.261
				220	B	**3RH11 22-2BM40**		1	1 unit	101	0.255
With permanently mounted auxiliary switch block											
6	**44 E**	4	4	24	A	**3RH12 44-2BB40**		1	1 unit	101	0.311
	62 E	6	2	24	A	**3RH12 62-2BB40**		1	1 unit	101	0.314

For other voltages, see page 3/81.
For accessories, see page 3/110 and 3/113.
For multi-unit packing and reusable packaging, see Appendix -> Ordering Notes.

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

*** You can order this quantity or a multiple thereof.**

Contactor	Type	3RH11

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

AC operation

Coils for AC 50 and 60 Hz

Rated control supply voltage U_S	Control supply voltage at	
V AC 50/60 Hz[1)]	**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**

DC operation

Rated control supply voltage U_S	
V DC	**Option**
12	**A4**
24	**B4**
42	**D4**
48	**W4**
60	**E4**
110	**F4**
125	**G4**
220	**M4**
230	**P4**

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.

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: Ident. No. acc. to EN 50011	Version NO	Version NC	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
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.

*** You can order this quantity or a multiple thereof.**

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/ 220 V	400/ 380 V	500 V	690/ 660 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_s;
lower operating range limit according to IEC 60947.

*** You can order this quantity or a multiple thereof.**

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			Coils for AC 50 and 60 Hz	
Rated control supply voltage U_s	Control supply voltage at		Rated control supply voltage U_s	Rated control supply voltage U_s
V AC 50 Hz	**V AC 60 Hz**	**Option**	**V AC 50/60 Hz**	**Option**	**V DC**	**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.

*** You can order this quantity or a multiple thereof.**

Overview

AC and DC operation

IEC 60947 (VDE 0660).

The terminal designations comply with EN 50011.

3TH2 contactor relays

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

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

3TH27 latched auxiliary contactors

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

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

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

3TH2 contactor relays, 4- and 8-pole

Selection and ordering data

Contacts	Rated operational current I_e/AC-15/AC-14 at 230/220 V	400/380 V	500 V	690/660 V	Contacts Ident. No. acc. to EN 50011	Version NO	Version NC	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Number	A	A	A	A										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 40-0AP0**		1	1 unit	101	0.194
					31 E	3	1	A	**3TH20 31-0AP0**		1	1 unit	101	0.193
					22 E	2	2	A	**3TH20 22-0AP0**		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
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 40-3AP0**		1	1 unit	101	0.166
					31 E	3	1	B	**3TH20 31-3AP0**		1	1 unit	101	0.164
					22 E	2	2	B	**3TH20 22-3AP0**		1	1 unit	101	0.165
for screw mounting (diagonal)														
4	**4**	3	2	--	**40 E**	4	--	C	**3TH20 40-7AP0**		1	1 unit	101	0.161
					31 E	3	1	B	**3TH20 31-7AP0**		1	1 unit	101	0.162
					22 E	2	2	B	**3TH20 22-7AP0**		1	1 unit	101	0.162
DC operation · DC solenoid system														
For screw and snap-on mounting onto 35 mm standard mounting rail														
4	**4**	3	2	--	**40 E**	4	--	B	**3TH20 40-3BB4**		1	1 unit	101	0.187
					31 E	3	1	B	**3TH20 31-3BB4**		1	1 unit	101	0.185
					22 E	2	2	B	**3TH20 22-3BB4**		1	1 unit	101	0.185
for screw mounting (diagonal)														
4	**4**	3	2	--	**40 E**	4	--	C	**3TH20 40-7BB4**		1	1 unit	101	0.183
					31 E	3	1	B	**3TH20 31-7BB4**		1	1 unit	101	0.183
					22 E	2	2	B	**3TH20 31-7BB4**		1	1 unit	101	0.183
Contactor relays with solder pin connectors for printed circuit boards														
AC operation														
For screw mounting (diagonal)														
4	**4**	3	2	--	**40 E**	4	--	C	**3TH20 40-6AP0**		1	1 unit	101	0.162
					31 E	3	1	B	**3TH20 31-6AP0**		1	1 unit	101	0.162
					22 E	2	2	C	**3TH20 22-6AP0**		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
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 80-0AP0**		1	1 unit	101	0.234
					71 E	7	1	C	**3TH22 71-0AP0**		1	1 unit	101	0.233
					62 E	6	2	C	**3TH22 62-0AP0**		1	1 unit	101	0.235
					53 E	5	3	C	**3TH22 53-0AP0**		1	1 unit	101	0.234
					44 E	4	4	C	**3TH22 44-0AP0**		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

3TH20 ..-0A..

3TH20 ..-3...

3TH20 ..-7...

3TH20.. -6...

3TH22.. -0A..

For accessories, see page 3/140.

* You can order this quantity or a multiple thereof.

3TH2 contactor relays, 4- and 8-pole

Contacts	Rated operational current I_e/AC-15/AC-14 at 230/220 V	400/380 V	500 V	690/660 V	Contacts Ident. No. acc. to EN 50011	Version NO	Version NC	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
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 V AC	**60 Hz V AC**	
24	**29**	**B0**
110	**132**	**F0**
230/220	**276**	**P0**[1]
DC operation		
Rated control supply voltage U_s		
V DC		
24		**B4**
110		**F4**
220		**M4**

Contactor	Type	3TH20 ..-3..., 3TH20 ..-6..., 3TH20 ..-7..., 3TH22, 3TH27
Rated control supply voltages (the 10th and 11th position of the order number must be changed)		
AC operation		
Coils for AC 50 and 60 Hz Rated control supply voltage U_s		
Coils for AC 50 Hz 50 Hz V AC	**60 Hz V AC**	
230/220	**276**	**P0**[1]
DC operation		
Rated control supply voltage U_s		
V DC		
24		**B4**

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

Please inquire about further voltages.

*** You can order this quantity or a multiple thereof.**

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_e/ AC-15/AC-14 at	Auxiliary contacts			DT	**Screw terminals**		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
	230 V	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	--	▶	**3RH11 40-1HB40**		1	1 unit	101	0.258
		31 E	3	1	▶	**3RH11 31-1HB40**		1	1 unit	101	0.258
		22 E	2	2	▶	**3RH11 22-1HB40**		1	1 unit	101	0.259
Built-in diode	**6**	**40 E**	4	--	▶	**3RH11 40-1JB40**		1	1 unit	101	0.258
		31 E	3	1	▶	**3RH11 31-1JB40**		1	1 unit	101	0.259
		22 E	2	2	▶	**3RH11 22-1JB40**		1	1 unit	101	0.260
Built-in varistor	**6**	**40 E**	4	--	▶	**3RH11 40-1KB40**		1	1 unit	101	0.259
		31 E	3	1	▶	**3RH11 31-1KB40**		1	1 unit	101	0.259
		22 E	2	2	▶	**3RH11 22-1KB40**		1	1 unit	101	0.259
Rated control supply voltage U_s = 24 V DC, coil operating range **0.85 to 1.85 x** U_s Power consumption of the coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)											
Diode, varistor or RC element attachable	**6**	**40 E**	4	--	B	**3RH11 40-1MB40-0KT0**		1	1 unit	101	0.259
		31 E	3	1	B	**3RH11 31-1MB40-0KT0**		1	1 unit	101	0.259
		22 E	2	2	A	**3RH11 22-1MB40-0KT0**		1	1 unit	101	0.262
Built-in diode	**6**	**40 E**	4	--	B	**3RH11 40-1VB40**		1	1 unit	101	0.260
		31 E	3	1	A	**3RH11 31-1VB40**		1	1 unit	101	0.260
		22 E	2	2	B	**3RH11 22-1VB40**		1	1 unit	101	0.261
Built-in varistor	**6**	**40 E**	4	--	B	**3RH11 40-1WB40**		1	1 unit	101	0.260
		31 E	3	1	A	**3RH11 31-1WB40**		1	1 unit	101	0.260
		22 E	2	2	A	**3RH11 22-1WB40**		1	1 unit	101	0.261

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

*** You can order this quantity or a multiple thereof.**

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_e/ AC-15/AC-14 at **230 V** A	Auxiliary contacts Ident. No. acc. to EN 50011	Version NO	Version NC	DT	**Cage Clamp terminals** Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. 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.

*** You can order this quantity or a multiple thereof.**

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

Application

DC operation

IEC 60947, EN 60947 (VDE 0660)

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

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

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

Selection and ordering data

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

	Surge suppressors	Rated data AC-2 and AC-3, T_u: up to 60 °C		Auxiliary contacts		DT	**Screw terminals**		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		Operational current I_e up to 400 V	Rating of induction motors at 50 Hz and **400 V**	Ident. No.	Version NO	Version NC	Order No.	Price per PU				
		A	**kW**		NO	NC						kg
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)												
Diode, varistor or RC element, attachable	7	**3**		10	1	--	▶	**3RT10 15-1HB41**	1	1 unit	101	0.259
				01	--	1	▶	**3RT10 15-1HB42**	1	1 unit	101	0.258
Built-in diode	7	**3**		10	1	--	▶	**3RT10 15-1JB41**	1	1 unit	101	0.259
				01	--	1	▶	**3RT10 15-1JB42**	1	1 unit	101	0.261
Built-in varistor	7	**3**		10	1	--	▶	**3RT10 15-1KB41**	1	1 unit	101	0.261
				01	--	1	▶	**3RT10 15-1KB42**	1	1 unit	101	0.259
Diode, varistor or RC element, attachable	9	**4**		10	1	--	▶	**3RT10 16-1HB41**	1	1 unit	101	0.258
				01	--	1	▶	**3RT10 16-1HB42**	1	1 unit	101	0.260
Built-in diode	9	**4**		10	1	--	▶	**3RT10 16-1JB41**	1	1 unit	101	0.261
				01	--	1	▶	**3RT10 16-1JB42**	1	1 unit	101	0.261
Built-in varistor	9	**4**		10	1	--	▶	**3RT10 16-1KB41**	1	1 unit	101	0.260
				01	--	1	▶	**3RT10 16-1KB42**	1	1 unit	101	0.260
Diode, varistor or RC element, attachable	12	**5.5**		10	1	--	A	**3RT10 17-1HB41**	1	1 unit	101	0.260
				01	--	1	B	**3RT10 17-1HB42**	1	1 unit	101	0.260
Built-in diode	12	**5.5**		10	1	--	▶	**3RT10 17-1JB41**	1	1 unit	101	0.258
				01	--	1	▶	**3RT10 17-1JB42**	1	1 unit	101	0.258
Built-in varistor	12	**5.5**		10	1	--	▶	**3RT10 17-1KB41**	1	1 unit	101	0.261
				01	--	1	▶	**3RT10 17-1KB42**	1	1 unit	101	0.261

3RT10 1.-1HB4.

For accessories, see page 3/119.

*** You can order this quantity or a multiple thereof.**

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

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

3RT10 1.-2JB4

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)

Surge suppressors	Rated data AC-2 and AC-3, T_u: up to 60 °C: Operational current I_e up to 400 V A	Rating of induction motors at 50 Hz and **400 V** **kW**	Auxiliary contacts: Ident. No.	Version NO	Version NC	DT	**Cage Clamp terminals** Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Diode, varistor or RC element, attachable	7	**3**	10	--	1	▶	**3RT10 15-2HB41**		1	1 unit	101	0.254
			01	1	--	▶	**3RT10 15-2HB42**		1	1 unit	101	0.254
Built-in diode	7	**3**	10	--	1	▶	**3RT10 15-2JB41**		1	1 unit	101	0.255
			01	1	--	▶	**3RT10 15-2JB42**		1	1 unit	101	0.255
Built-in varistor	7	**3**	10	--	1	▶	**3RT10 15-2KB41**		1	1 unit	101	0.257
			01	1	--	▶	**3RT10 15-2KB42**		1	1 unit	101	0.256
Diode, varistor or RC element, attachable	9	**4**	10	--	1	B	**3RT10 16-2HB41**		1	1 unit	101	0.254
			01	1	--	B	**3RT10 16-2HB42**		1	1 unit	101	0.256
Built-in diode	9	**4**	10	--	1	▶	**3RT10 16-2JB41**		1	1 unit	101	0.256
			01	1	--	▶	**3RT10 16-2JB42**		1	1 unit	101	0.256
Built-in varistor	9	**4**	10	--	1	▶	**3RT10 16-2KB41**		1	1 unit	101	0.255
			01	1	--	▶	**3RT10 16-2KB42**		1	1 unit	101	0.255
Diode, varistor or RC element, attachable	12	**5.5**	10	--	1	B	**3RT10 17-2HB41**		1	1 unit	101	0.257
			01	1	--	B	**3RT10 17-2HB42**		1	1 unit	101	0.253
Built-in diode	12	**5.5**	10	--	1	▶	**3RT10 17-2JB41**		1	1 unit	101	0.255
			01	1	--	▶	**3RT10 17-2JB42**		1	1 unit	101	0.256
Built-in varistor	12	**5.5**	10	--	1	▶	**3RT10 17-2KB41**		1	1 unit	101	0.256
			01	1	--	▶	**3RT10 17-2KB42**		1	1 unit	101	0.256

For accessories, see page 3/119.

*** You can order this quantity or a multiple thereof.**

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

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

3RT10 1.-1VB4.

Size S00

Terminal designations according to DIN 50012
Rated control supply voltage U_s = 24 V DC, coil operating range **0.85 to 1.85 x U_s**
Power consumption of the coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)

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	Rating of induction motors at 50 Hz and	Ident. No.	Version			Order No.	Price per PU				
	400 V	**400 V**										
	A	**kW**		NO	NC							kg
Diode, varistor or RC element, attachable	7	**3**	10	1	--	B	**3RT10 15-1MB41-0KT0**		1	1 unit	101	0.260
			01	--	1	B	**3RT10 15-1MB42-0KT0**		1	1 unit	101	0.260
Built-in diode	7	**3**	10	1	--	B	**3RT10 15-1VB41**		1	1 unit	101	0.262
			01	--	1	B	**3RT10 15-1VB42**		1	1 unit	101	0.260
Built-in varistor	7	**3**	10	1	--	A	**3RT10 15-1WB41**		1	1 unit	101	0.260
			01	--	1	B	**3RT10 15-1WB42**		1	1 unit	101	0.260
Diode, varistor or RC element, attachable	9	**4**	10	1	--	B	**3RT10 16-1MB41-0KT0**		1	1 unit	101	0.261
			01	--	1	B	**3RT10 16-1MB42-0KT0**		1	1 unit	101	0.261
Built-in diode	9	**4**	10	1	--	B	**3RT10 16-1VB41**		1	1 unit	101	0.261
			01	--	1	B	**3RT10 16-1VB42**		1	1 unit	101	0.260
Built-in varistor	9	**4**	10	1	--	B	**3RT10 16-1WB41**		1	1 unit	101	0.260
			01	--	1	B	**3RT10 16-1WB42**		1	1 unit	101	0.260
Diode, varistor or RC element, attachable	12	**5.5**	10	1	--	B	**3RT10 17-1MB41-0KT0**		1	1 unit	101	0.262
			01	--	1	B	**3RT10 17-1MB42-0KT0**		1	1 unit	101	0.260
Built-in diode	12	**5.5**	10	1	--	B	**3RT10 17-1VB41**		1	1 unit	101	0.260
			01	--	1	B	**3RT10 17-1VB42**		1	1 unit	101	0.261
Built-in varistor	12	**5.5**	10	1	--	B	**3RT10 17-1WB41**		1	1 unit	101	0.261
			01	--	1	B	**3RT10 17-1WB42**		1	1 unit	101	0.260

For accessories, see page 3/119.

*** You can order this quantity or a multiple thereof.**

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

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

3RT10 1.-2WB4.

Size S00

Terminal designations according to DIN 50012
Rated control supply voltage U_s = 24 V DC, coil operating range **0.85 to 1.85 x U_s**
Power consumption of the coils **1.4 W** at 24 V (no auxiliary switch blocks can be mounted)

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	Rating of induction motors at 50 Hz and	Ident. No.	Version			Order No.	Price per PU				
	400 V	**400 V**										
	A	**kW**		NO	NC							kg
Diode, varistor or RC element, attachable	7	**3**	10	1	--	B	**3RT10 15-2MB41-0KT0**		1	1 unit	101	0.255
			01	--	1	B	**3RT10 15-2MB42-0KT0**		1	1 unit	101	0.257
Built-in diode	7	**3**	10	1	--	B	**3RT10 15-2VB41**		1	1 unit	101	0.258
			01	--	1	B	**3RT10 15-2VB42**		1	1 unit	101	0.257
Built-in varistor	7	**3**	10	1	--	B	**3RT10 15-2WB41**		1	1 unit	101	0.257
			01	--	1	B	**3RT10 15-2WB42**		1	1 unit	101	0.258
Diode, varistor or RC element, attachable	9	**4**	10	1	--	B	**3RT10 16-2MB41-0KT0**		1	1 unit	101	0.257
			01	--	1	B	**3RT10 16-2MB42-0KT0**		1	1 unit	101	0.257
Built-in diode	9	**4**	10	1	--	B	**3RT10 16-2VB41**		1	1 unit	101	0.258
			01	--	1	B	**3RT10 16-2VB42**		1	1 unit	101	0.255
Built-in varistor	9	**4**	10	1	--	B	**3RT10 16-2WB41**		1	1 unit	101	0.255
			01	--	1	B	**3RT10 16-2WB42**		1	1 unit	101	0.257
Diode, varistor or RC element, attachable	12	**5.5**	10	1	--	B	**3RT10 17-2MB41-0KT0**		1	1 unit	101	0.256
			01	--	1	B	**3RT10 17-2MB42-0KT0**		1	1 unit	101	0.250
Built-in diode	12	**5.5**	10	1	--	B	**3RT10 17-2VB41**		1	1 unit	101	0.255
			01	--	1	B	**3RT10 17-2VB42**		1	1 unit	101	0.255
Built-in varistor	12	**5.5**	10	1	--	B	**3RT10 17-2WB41**		1	1 unit	101	0.256
			01	--	1	B	**3RT10 17-2WB42**		1	1 unit	101	0.257

For accessories, see page 3/119.

*** You can order this quantity or a multiple thereof.**

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

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

3RT10 2.-1KB40

Size S0

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

Surge suppressors	Rated data AC-2 and AC-3, T_u: up to 60 °C: Operational current I_e up to 400 V A	Rating of induction motors at 50 Hz and 400 V kW	Auxiliary contacts: Ident. No.	Version NO	Version NC	DT	Screw terminals: Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Varistor mounted	12	**5.5**	--	--	--	▶	**3RT10 24-1KB40**		1	1 unit	101	0.576
	17	**7.5**	--	--	--	▶	**3RT10 25-1KB40**		1	1 unit	101	0.577
	25	**11**	--	--	--	▶	**3RT10 26-1KB40**		1	1 unit	101	0.582

For accessories, see page 3/112.

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

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

3RT10 2.-3KB40

Size S0

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

Surge suppressors	Rated data AC-2 and AC-3, T_u: up to 60 °C: Operational current I_e up to 400 V A	Rating of induction motors at 50 Hz and 400 V kW	Auxiliary contacts: Ident. No.	Version NO	Version NC	DT	Cage Clamp terminals: Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Varistor mounted	12	**5.5**	--	--	--	B	**3RT10 24-3KB40**		1	1 unit	101	0.578
	17	**7.5**	--	--	--	▶	**3RT10 25-3KB40**		1	1 unit	101	0.580
	25	**11**	--	--	--	▶	**3RT10 26-3KB40**		1	1 unit	101	0.581

For accessories, see page 3/112.

*** You can order this quantity or a multiple thereof.**

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 AC 50/60 Hz V	Contacts Version NO	CO	Width mm	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. 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

3TX7 002-1....

3TX7 002-2....

3TX7 003

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.

*** You can order this quantity or a multiple thereof.**

3TX7 Coupling Relays, Narrow Design

Relay couplers

	Rated control supply voltage U_s AC 50/60 Hz V	Contacts Version NO	CO	Manual-0-automatic switch for testing purposes	Width mm	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. 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
3TX7 004-1LB0.	**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 005-2MB02

Note:
For replacement products, see 3RS18 coupling links with industrial housing or other 3TX7 0 products.
For coil voltages which are not listed, see SITOP power DC Power Supplies, e.g. 6EP1 331-2BA10 and 6EP1 731-2BA00, in "Transformers and Power Supplies".

1) For long conductors.

2) Hard gold-plated contacts.

Accessories

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

*** You can order this quantity or a multiple thereof.**

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.
V	NO	CO							kg
Plug-in relays with screw terminals, 6.2 mm, complete with relay									
24 DC	1	--	A	**3TX7 014-1AM00**		1	5 units	101	0.035
24 DC	--	1	A	**3TX7 014-1BM00**		1	5 units	101	0.035
24 AC/DC	--	1	A	**3TX7 014-1BB00**		1	5 units	101	0.035
115 AC/DC	--	1	A	**3TX7 014-1BE00**		1	5 units	101	0.045
230 AC/DC	--	1	A	**3TX7 014-1BF00**		1	5 units	101	0.041
Plug-in relays with screw terminals, 6.2 mm, complete with relay and hard gold-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

3TX7 014-1AM00

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.

*** You can order this quantity or a multiple thereof.**

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 modules[1], 6.2 mm, 1 changeover contact									
	12 DC	Complete units 24 V AC/DC	A	**3TX7 014-7BQ00**		1	20 units	101	0.035
		Complete units, 24 V AC/DC, hard gold-plated	A	**3TX7 014-7BQ02**		1	20 units	101	0.035
	24 DC	Complete units 24 V DC	A	**3TX7 014-7BM00**		1	20 units	101	0.035
		Complete units 24 V DC, hard gold-plated	A	**3TX7 014-7BM02**		1	20 units	101	0.035
	60 DC	Complete units 115 V and 230 V AC/DC	A	**3TX7 014-7BP00**		1	20 units	101	0.035
		Complete units 115 V and 230 V AC/DC, hard gold-plated	A	**3TX7 014-7BP02**		1	20 units	101	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

Complete device 3TX7 014-.. 3TX7 015-..	(+)A1/(-)A2	NO (13/14) CO (11/12/14)	Single device 3TX7 014-..	Versions to be supplied FTR-LY..	APE..	V23092-..
..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.

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

3TX7 002

	Rated control supply voltage U_s AC 50/60 Hz V	Switching voltage V	Switching current A	Manual-0-automatic switch for testing purposes	Width mm	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3TX7 004 semiconductor couplers with screw terminals												
	Output coupling links											
	24 DC	≤ 48 V DC	0.5	without	6.2	▶	**3TX7 004-3AB04**		1	1 unit	101	0.034
	24 DC	≤ 30 V DC	1.5			▶	**3TX7 004-3PB54**		1	1 unit	101	0.029
	24 DC	≤ 30 V DC	3	without	6.2	▶	**3TX7 004-3PB74**		1	1 unit	101	0.032
	110 ... 230 AC/DC	≤ 30 V DC	3			▶	**3TX7 004-3PG74**		1	1 unit	101	0.033
	24 DC	≤ 30 V DC	5	without	12.5	▶	**3TX7 004-3AC04**		1	1 unit	101	0.052
	24 DC	≤ 30 V DC	5	with		B	**3TX7 004-3AC14**		1	1 unit	101	0.061
	24 DC	24 ... 250 V AC	2	without	12.5	▶	**3TX7 004-3AC03**		1	1 unit	101	0.060
	Input coupling links											
	AC/DC 110 ... 230	≤ 30 V DC	0.1	without	6.2	▶	**3TX7 004-4PG24**		1	1 unit	101	0.034
3TX7 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					A	**3TX7 005-3PG74**		1	1 unit	101	0.027
	24 DC	≤ 30 V DC	5	without	12.5	▶	**3TX7 005-3AC04**		1	1 unit	101	0.047
	24 DC			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

3TX7 004-3AB04

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.**

Accessories

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

* You can order this quantity or a multiple thereof.

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.

*** You can order this quantity or a multiple thereof.**

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
Complete units, 11- and 14-pole, PT series											
LZX:PT3A5L24	**Complete units with socket** For snap-on mounting onto 35 mm standard mounting rail Consisting of: Plug-in relay, socket, LED module (24-V-DC-LED module with freewheel diode, AC without freewheel diode), fixing/ejection bracket and label	24 DC	3	27	C	**LZX:PT3A5L24**		1	1 unit	101	0.099
			4		C	**LZX:PT5A5L24**		1	1 unit	101	0.099
		24 AC	3		C	**LZX:PT3A5R24**		1	1 unit	101	0.099
			4		C	**LZX:PT5A5R24**		1	1 unit	101	0.100
		115 AC	3	27	C	**LZX:PT3A5S15**		1	1 unit	101	0.099
			4		C	**LZX:PT5A5S15**		1	1 unit	101	0.099
		230 AC	3		C	**LZX:PT3A5T30**		1	1 unit	101	0.099
			4		C	**LZX:PT5A5T30**		1	1 unit	101	0.099
	Complete units with socket (logical isolation) For snap-on mounting onto 35 mm standard mounting rail Consisting of: Plug-in relay, socket with logical isolation, LED module (24-V-DC-LED module with freewheel diode, AC without freewheel diode), fixing/ejection bracket and label	24 DC	3	27	C	**LZX:PT3B5L24**		1	1 unit	101	0.106
			4		C	**LZX:PT5B5L24**		1	1 unit	101	0.112
		24 AC	4		C	**LZX:PT5B5R24**		1	1 unit	101	0.112
		115 AC	3		C	**LZX:PT3B5S15**		1	1 unit	101	0.105
		115 AC	4	27	C	**LZX:PT5B5S15**		1	1 unit	101	0.112
		230 AC	3		C	**LZX:PT3B5T30**		1	1 unit	101	0.106
			4		C	**LZX:PT5B5T30**		1	1 unit	101	0.112
Complete units, 8-pole, 5 mm pinning, RT series											
LZX:RT4B4AT30	**Complete units with socket** For snap-on mounting onto 35 mm standard mounting rail Consisting of: Print relay, standard socket, LED module (24-V-LED-DC with freewheel diode, AC without freewheel diode), fixing/ejection bracket and label	24 DC	1	15.5	►	**LZX:RT3A4L24**		1	1 unit	101	0.061
			2		►	**LZX:RT4A4L24**		1	1 unit	101	0.061
		24 AC	1		C	**LZX:RT3A4R24**		1	1 unit	101	0.060
			2		C	**LZX:RT4A4R24**		1	1 unit	101	0.060
		115 AC	1	15.5	C	**LZX:RT3A4S15**		1	1 unit	101	0.060
			2		C	**LZX:RT4A4S15**		1	1 unit	101	0.060
		230 AC	1		A	**LZX:RT3A4T30**		1	1 unit	101	0.060
			2		►	**LZX:RT4A4T30**		1	1 unit	101	0.060
	Complete units with socket (logical isolation) For snap-on mounting onto 35 mm standard mounting rail Consisting of: Print relay with safe isolation, socket with logical isolation, LED module (24-V-DC-LED module with freewheel diode, AC without freewheel diode), fixing/ejection bracket and label	24 DC	1	15.5	C	**LZX:RT3B4L24**		1	1 unit	101	0.065
			2		A	**LZX:RT4B4L24**		1	1 unit	101	0.065
		24 AC	1		C	**LZX:RT3B4R24**		1	1 unit	101	0.064
			2		C	**LZX:RT4B4R24**		1	1 unit	101	0.064
		115 AC	1	15.5	C	**LZX:RT3B4S15**		1	1 unit	101	0.064
			2		C	**LZX:RT4B4S15**		1	1 unit	101	0.065
		230 AC	1		C	**LZX:RT3B4T30**		1	1 unit	101	0.064
			2		C	**LZX:RT4B4T30**		1	1 unit	101	0.064
Complete units, 5-pole, 3.2 mm pinning, RY series											
LZX:RY1A4L24	**Complete units with socket (logical isolation)** For snap-on mounting onto 35 mm standard mounting rail Consisting of: **Print relays** **Sockets** with logical isolation **LED modules** (24-V-DC-LED module with freewheel diode) **Fixing/ejection brackets** and label	24 DC	1	15.5	C	**LZX:RY1A4L24**		1	1 unit	101	0.048
					C	**LZX:RY213024**		1	1 unit	101	0.009
					C	**LZX:RY78626**		1	1 unit	101	0.035
					►	**LZX:RPML0024**		1	1 unit	101	0.003
					C	**LZX:RY16016**		100	10 units	101	0.100

Note:
Logical isolation: The terminals for the contacts and the terminals for the coil are arranged on separate levels, e.g. above for contacts and below for coil.
Logical isolation is not necessarily safe isolation (see the technical specifications of the relay types).
Safe isolation: Safe isolation prevents voltage of one circuit affecting another circuit with sufficient protection (DIN VDE 106 Part 101).

*** You can order this quantity or a multiple thereof.**

	Version	Rated control supply voltage U_s	Contacts Version	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
		V		mm							kg
Print relays, 8- and 11-pole, 5 mm pinning, RT series											
	Individual modules for customer assembly										
LZX:RT314024	**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
		230 AC	1	12.7	▶	**LZX:RT314730**		1	1 unit	101	0.007
		230 AC	2	12.7	▶	**LZX:RT424730**		1	1 unit	101	0.010
LZX:RT78625	**Standard sockets** for mounting onto standard mounting rail	--	--	15.5	▶	**LZX:RT78625**		1	1 unit	101	0.042
LZX:RT78626	**Sockets** with logical isolation, for mounting onto standard mounting rail	--	--	15.5	▶	**LZX:RT78626**		1	1 unit	101	0.047
	Accessories for RT										
	LED modules										
	• Red										
LZX:RPML0024	with freewheel diode	24 DC	--	15.5	▶	**LZX:RPML0024**		1	1 unit	101	0.003
	without freewheel diode	24 AC/DC	--		▶	**LZX:RPML0524**		1	1 unit	101	0.003
		110 ... 230 AC/DC	--		▶	**LZX:RPML0730**		1	1 unit	101	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
LZX:RY16016	**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	0.035
	Fixing/ejection brackets	--	--		C	**LZX:RY16016**		100	10 units	101	0.100

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

*** You can order this quantity or a multiple thereof.**

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										
LZX:PT570024	• With test bracket and mechanical contact position indicator, without LED[1]	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	• With hard gold-plating	24 DC	4	22.5	▶	**LZX:PT580024**		1	1 unit	101	0.031
		230 AC			▶	**LZX:PT580730**		1	1 unit	101	0.031
	• Without test bracket	24 DC	4	22.5	C	**LZX:PT520024**		1	1 unit	101	0.031
		24 AC			C	**LZX:PT520524**		1	1 unit	101	0.032
		230 AC			C	**LZX:PT520730**		1	1 unit	101	0.031
	Sockets for mounting onto standard mounting rail	--	--	27	▶	**LZX:PT78702**		1	1 unit	101	0.051
					▶	**LZX:PT78703**		1	1 unit	101	0.062
					▶	**LZX:PT78704**		1	1 unit	101	0.063
	Accessories for PT										
	LED modules										
LZX:RPML0024	**• Red**										
	with freewheel diode	24 DC	--	12.5	▶	**LZX:RPML0024**		1	1 unit	101	0.003
	without freewheel diode	24 AC/DC			▶	**LZX:RPML0524**		1	1 unit	101	0.003
		110 … 230 AC/DC			▶	**LZX:RPML0730**		1	1 unit	101	0.003
LZX:PT16016	**• 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
LZX:PT16040	**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 relays[2]											
	Logical sockets with logical arrangement of the contacts										
LZX:PT78802	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										
LZX:PT78604	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.

*** You can order this quantity or a multiple thereof.**

Industrial relays, 11-pole, MT series

LZX:MT326024

LZX:MT78750

Individual modules for customer assembly

	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 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".

*** You can order this quantity or a multiple thereof.**

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 AC -1 Switching of resistive loads at 55 °C: Operating current I_e up to 400 V	Power of three-phase loads at 50 Hz and 400 V	AC-2 and AC-3: Operating current I_e up to 400 V[1)]	Power of three-phase loads at 50 Hz and 400 V	Main contacts Version NO	NC	Rated control supply voltage U_s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
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
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 ..-0...

3TG10 ..-1...

* You can order this quantity or a multiple thereof.

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".

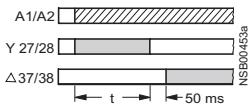
Solid-state time-delay auxiliary switch block

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.

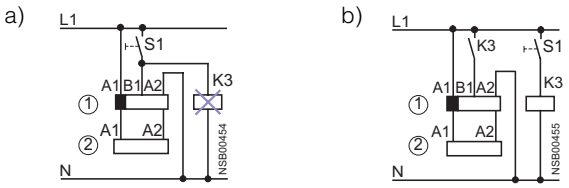
The solid-state, time-delay block cannot be mounted on size S00 coupling relays.

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



① Timing relay block
② Contactor

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 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.

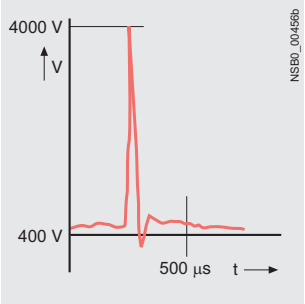
The plug-in direction of the diodes and diode assemblies is determined by a coding device.

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

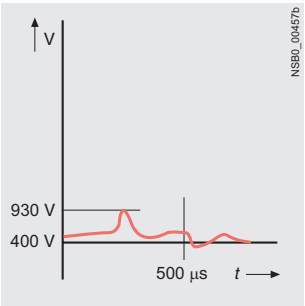
Since the EMC interference suppression module achieves a significant reduction in radio-frequency components and the voltage level in three phases, the contact endurance is also improved considerably. This makes an important contribution towards enhancing the reliability and availability of the system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

Dispensing with fine graduations

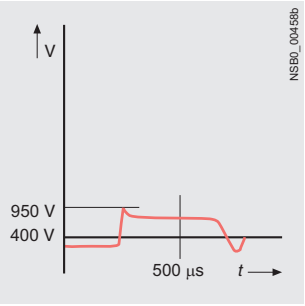
There is no need for fine graduations within each performance class, as smaller motors inherently have a higher inductance, so that one solution for all fixed-speed drives up to 5.5 kW is adequate.

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.



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 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 ... S12 [1]												
	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
	22 [2]	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.**

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.
	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 11-2HA01**		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 ... S12[1]												
	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

*** You can order this quantity or a multiple thereof.**

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.
	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 50005												
Sizes S0 to S12 [1]												
	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.
	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 50005												
Sizes S0 to S12 [1]												
	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.

*** You can order this quantity or a multiple thereof.**

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
(Ident. No. 40 E)	**71 E**	3	1	▶	**3RH19 11-2GA31**		1	1 unit	101	0.059
	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.

*** You can order this quantity or a multiple thereof.**

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
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
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.**

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.
	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 21-2DA11**		1	1 unit	101	0.050
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
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.
		Version					Order No.	Price per PU				
Type		NO	NO	NC	NC							kg
Solid-state compatible auxiliary switch blocks, for snapping onto the front, according to EN 50005												
Size S00												
3RT1. 1, 3RH11, 3RH14	For use in dusty atmosphere and solid-state circuits with rated operating currents I_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	--	--	1	▶	**3RH19 11-1NF11**		1	1 unit	101	0.042
		2	--	--	--	▶	**3RH19 11-1NF20**		1	1 unit	101	0.041
		--	--	--	2	▶	**3RH19 11-1NF02**		1	1 unit	101	0.041
Sizes S0 ... S12												
3RT1. 2 ... 3RT1. 7	For use in dusty atmosphere and solid-state circuits with rated operating currents I_e/AC-14 and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. Mirror contacts according to EN 60947-4-1, Appendix F 1 NO + 1 NC standard auxiliary switches: For technical specifications, see LV 1 T.	1	1	1	1	▶	**3RH19 21-1FE22**		1	1 unit	101	0.073

*** You can order this quantity or a multiple thereof.**

Accessories for 3RT, 3RH contactors and contactor relays

3RH19 11-2NF ..

3RH19 21-2JE22

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

For contactors Type	Version	Contacts Version NO	NO	NC	NC	DT	Cage Clamp terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Solid-state compatible auxiliary switch blocks, for snapping onto the front, according to EN 50005												
Size S00												
3RT1. 1, 3RH11, 3RH14	For use in dusty atmosphere and solid-state circuits with rated operating currents I_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	--	--	1	►	**3RH19 11-2NF11**		1	1 unit	101	0.047
		2	--	--	--	►	**3RH19 11-2NF20**		1	1 unit	101	0.047
		--	--	--	2	►	**3RH19 11-2NF02**		1	1 unit	101	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
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
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

*** You can order this quantity or a multiple thereof.**

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

3RT19 16-2....

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
Size S00										
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										
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

3RT19 26-2....

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.

*** You can order this quantity or a multiple thereof.**

Accessories for 3RT, 3RH contactors and contactor relays

	For contactors Type	Rated control supply voltage U_s V	Time setting range t s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Solid-state time-delay blocks with semiconductor output										
	Size S00									
		For mounting onto the front of contactors								
		• ON-delay (varistor integrated)								
3RT19 16-2C...	3RT1. 1, 3RH11[1], 3RH14	24 ... 66 AC/DC	0.05 ... 1	B	**3RT19 16-2CG11**		1	1 unit	101	0.051
			0.5 ... 10	►	**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)								
3RT19 16-2D...	3RT1. 1, 3RH11[1], 3RH14	24 ... 66 AC/DC	0.05 ... 1	C	**3RT19 16-2DG11**		1	1 unit	101	0.057
			0.5 ... 10	B	**3RT19 16-2DG21**		1	1 unit	101	0.057
			5 ... 100	B	**3RT19 16-2DG31**		1	1 unit	101	0.057
		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									
		For mounting onto coil terminals on top of the contactors								
		• ON-delay (varistor integrated)								
3RT19 26-2C...	3RT10 2, 3RT10 3, 3RT10 4, 3RT13[2], 3RT15	24 ... 66 AC/DC	0.05 ... 1	D	**3RT19 26-2CG11**		1	1 unit	101	0.048
			0.5 ... 10	B	**3RT19 26-2CG21**		1	1 unit	101	0.049
			5 ... 100	D	**3RT19 26-2CG31**		1	1 unit	101	0.048
		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)								
3RT19 26-2D...	3RT10 2, 3RT10 3, 3RT10 4, 3RT13[2], 3RT15	24 ... 66 AC/DC	0.05 ... 1	D	**3RT19 26-2DG11**		1	1 unit	101	0.050
			0.5 ... 10	D	**3RT19 26-2DG21**		1	1 unit	101	0.051
			5 ... 100	D	**3RT19 26-2DG31**		1	1 unit	101	0.051
		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
	3RT1. 1, 3RT1. 2, 3RH1 ...-1BM40	220/230 AC/DC		D	**3RT19 16-2BL01**		1	1 unit	101	0.144
	3RT1. 1 ... 3RT1. 4, 3RH1 ...-1BB40	24 DC		►	**3RT19 16-2BE01**		1	1 unit	101	0.114
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										
3RT19 26-3A.31	***Sizes S0 and S2***									
		For mounting on 1 contactor, contactor remains in the energized state even after a voltage failure								
	3RT1. 2, 3RT1. 3	24 AC/DC		A	**3RT19 26-3AB31**		1	1 unit	101	0.122
		110 AC/DC		B	**3RT19 26-3AF31**		1	1 unit	101	0.130
		230 AC/DC		B	**3RT19 26-3AP31**		1	1 unit	101	0.125

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

*** You can order this quantity or a multiple thereof.**

For contactors Type	Version	Rated control supply voltage U_s 1) AC operation V AC	DC operation V DC	DT	Order No. 2)	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Surge suppressors without LED (also for Cage Clamp terminals)										
Size S00										
	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										
	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									
	• Connectable at the top (e.g. for contactor with overload relay)	--	24	▶	**3RT19 26-1ER00**		1	1 unit	101	0.023
		--	30 ... 250	▶	**3RT19 26-1ES00**		1	1 unit	101	0.024
	• Connectable at the bottom (e.g. for fuseless load feeders)	--	24	▶	**3RT19 26-1TR00**		1	1 unit	101	0.024
		--	30 ... 250	A	**3RT19 26-1TS00**		1	1 unit	101	0.023

3RT19 16-1DG00

3RT19 26-1B0.00

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**".

*** You can order this quantity or a multiple thereof.**

Accessories for 3RT, 3RH contactors and contactor relays

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 36-1C.00

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

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

3RT19 56-1C.00

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

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 16-1L.00

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

	For contactors Type	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
EMC suppression modules; 3-phase ≤ 5.5 kW									
	Size S00 (for contactors with AC or DC operation)[1]								
3RT19 16-1PA	3RT10 1	**RC elements** (3 x 220 Ω/0.22 µF)							
		up to 400 V	►	**3RT19 16-1PA1**		1	1 unit	101	0.078
		up to 575 V	A	**3RT19 16-1PA2**		1	1 unit	101	0.078
		up to 690 V	C	**3RT19 16-1PA3**		1	1 unit	101	0.081
	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
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 blocks[2]							
3RT19 16-1GA00	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
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.

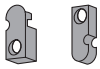
*** You can order this quantity or a multiple thereof.**

Accessories for 3RT, 3RH contactors and contactor relays

	For contactors Type	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Coupling links for control by PLC									
	Sizes S0 ... S3								
		For mounting onto the coil terminals of the contactors							
3RH19 24-1GP11	3RT1. 2, 3RT1. 3, 3RT1. 4	Operating range DC 17 V to 30 V Power consumption: 0.5 W at 24 V DC Permissible residual current of the electronics (with 0 signal): 2.5 mA Rated operating current I_e: AC-15/AC-14 at 230 V: 3 A, DC-13 at 230 V: 0.1 A With LED for indicating circuit state. With integrated varistor for damping opening surges.	►	**3RH19 24-1GP11**		1	1 unit	101	0.056
LED modules for indicating contactor operation (also for Cage Clamp terminals)									
	Sizes S0 ... S12 [1]								
3RT19 26-1QT00 mounted to contactor	3RT1. 2, 3RT1. 3, 3RT1. 4	For snapping into the location hole of an identification label on the front of a contactor either directly on the contactor or on the front auxiliary switch. The LED module is connected to coil terminals A1 and A2 of the contactor and indicates its energized state. Yellow LED. Rated voltage: 24 to 240 V AC/DC, polarized. (1 pack = 5 units)	B	**3RT19 26-1QT00**		1	5 units	101	0.007
Auxiliary terminals, 3-pole									
	Size S3								
3RT19 46-4F	3RT10 4.	For connection of auxiliary and control cables to the main conductor connections (for one side)	B	**3RT19 46-4F**		1	1 unit	101	0.033
Solder pin adapters for contactors									
	Size S00								
	3RT1. 1, 3RH11	Installation kit for soldering contactors onto a printed circuit board. For 1 contactor, 1 set is required.	A	**3RT19 16-4KA1**		1	4 sets	101	0.030

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

*** You can order this quantity or a multiple thereof.**

	For contactors Type	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Solder pin adapters for contactors with mounted 4-pole auxiliary switch block									
	Size S00								
	3RT1. 1, 3RH11	Installation kit for soldering contactors with an auxiliary switch block onto a printed circuit board For 1 contactor, 1 set is required.	B	**3RT19 16-4KA2**		1	4 sets	101	0.070
Screw adapters with screw or Cage Clamp terminal									
	Size S0								
 NSB0_01470	3RT1.2.	Screw adapter for easy screw fixing, 2 units required per contactor (1 pack contains 10 sets for 10 contactors)	C	**3RT19 26-4P**		1	10 sets	101	0.002

3RT19 16-4BB31

3RT19 16-4BB41

3RT19 36-4BB31

3RT19 56-4BA31

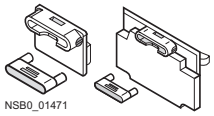
Size	For contactors Type	Max. conductor cross-sections mm²	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Links for paralleling									
	3-pole, with connection terminal[1)2)]								
S00	3RT10 1	25	►	**3RT19 16-4BB31**		1	1 unit	101	0.015
S0	3RT10 2.	35, stranded	►	**3RT19 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 terminal[1)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.

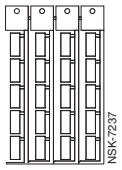
*** You can order this quantity or a multiple thereof.**

Accessories for 3RT, 3RH contactors and contactor relays

	For contactors Size	Type	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Box terminal blocks										
3RT19 5.-4G			**For round and ribbon cables**[1]							
	S6	3RT1. 5 (3RB10 5)	Up to 70 mm² [2]	▶	**3RT19 55-4G**		1	1 unit	101	0.237
			Up to 120 mm²	▶	**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 mm² With auxiliary conductor connection	▶	**3RT19 66-4G**		1	1 unit	101	0.676
Covers										
3RT19 36-4EA2			**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
3RT19 46-4EA1			**Terminal covers for cable lug and busbar connection**[3]							
	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/S12[5]	3RT1. 6, 3RT1. 7	Length: 42 mm	▶	**3RT19 66-4EA3**		1	1 unit	101	0.062
Sealable covers										
 NSB0_01471	**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.

*** You can order this quantity or a multiple thereof.**

	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	Insulation stop strip can be inserted in cable entry of Cage Clamp (2 strips per contactor required, can be removed in pairs) Fits into cable entries of all SIRIUS devices with Cage Clamp terminals of cable cross-section up to 2.5 mm².		B	**3RT19 16-4JA02**		100	20 units	101	0.100
Tools for opening Cage Clamp connection									
8WA2 880	For all SIRIUS devices with Cage Clamp terminals, up to max. 2.5 mm² conductor cross-section	Length: approx. 175 mm; 3.5 x 0.5 (green; partially isolated)	A	**8WA2 880**		1	1 unit	041	0.012
		Length: approx. 175 mm; 3.5 x 0.5 (green)	A	**8WA2 803**		1	1 unit	041	0.024
Blank labeling plates									
 3RT19 00-1SB10	Device labeling plates for "SIRIUS"								
	• 10 mm × 7 mm, pastel turquoise		D	**3RT19 00-1SB10**		100	816 units	101	0.239
	• 20 mm × 7 mm, pastel turquoise		C	**3RT19 00-1SB20**		100	340 units	101	0.220
	Labels for sticking for "SIRIUS"								
	• 19 mm × 6 mm, pastel turquoise		D	**3RT19 00-1SB60**		100	3060 units	101	0.153
	• 19 mm × 6 mm, zinc/yellow		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**					

* You can order this quantity or a multiple thereof.

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.
		50 Hz	50/60 Hz	60 Hz		Order No.	Price per PU				
Size	Type	V	V	V							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

3RT19 24-5A.01

3RT19 34-5A.01

* You can order this quantity or a multiple thereof.

Magnetic coils · AC operation

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.
		50 Hz	50/60 Hz	60 Hz		Order No.	Price per PU				
Size	Type	V	V	V							kg
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.**

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		Order No.	Price per PU				
		50 Hz	50/60 Hz	60 Hz								
Size	Type	V	V	V	V							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

3RT19 44-5A.01

3RT19 45-5A.01

*** You can order this quantity or a multiple thereof.**

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

3RT19 45-5A.02

3RT19 44-5B0.42

* You can order this quantity or a multiple thereof.

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

3RT19 55-5A

For contactor Size	Type	Rated control supply voltage $U_{s\,min}$ ... $U_{s\,max}$ V AC/DC	DT	Screw terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Withdrawable coils									
Conventional operating mechanism									
S6	3RT10 5, 3RT14 5	23 ... 26	B	**3RT19 55-5AB31**		1	1 unit	101	0.620
		42 ... 48	B	**3RT19 55-5AD31**		1	1 unit	101	0.576
		110 ... 127	B	**3RT19 55-5AF31**		1	1 unit	101	0.591
		200 ... 220	B	**3RT19 55-5AM31**		1	1 unit	101	0.568
		220 ... 240	B	**3RT19 55-5AP31**		1	1 unit	101	0.580
		240 ... 277	B	**3RT19 55-5AU31**		1	1 unit	101	0.579
		380 ... 420	B	**3RT19 55-5AV31**		1	1 unit	101	0.569
		440 ... 480	B	**3RT19 55-5AR31**		1	1 unit	101	0.613
		500 ... 550	B	**3RT19 55-5AS31**		1	1 unit	101	0.610
		575 ... 600	B	**3RT19 55-5AT31**		1	1 unit	101	0.605
S10	3RT10 6, 3RT14 6	23 ... 26	B	**3RT19 65-5AB31**		1	1 unit	101	0.850
		42 ... 48	B	**3RT19 65-5AD31**		1	1 unit	101	0.840
		110 ... 127	B	**3RT19 65-5AF31**		1	1 unit	101	0.809
		200 ... 220	C	**3RT19 65-5AM31**		1	1 unit	101	0.805
		220 ... 240	B	**3RT19 65-5AP31**		1	1 unit	101	0.784
		240 ... 277	B	**3RT19 65-5AU31**		1	1 unit	101	0.840
		380 ... 420	B	**3RT19 65-5AV31**		1	1 unit	101	0.817
		440 ... 480	B	**3RT19 65-5AR31**		1	1 unit	101	0.825
		500 ... 550	C	**3RT19 65-5AS31**		1	1 unit	101	0.829
		575 ... 600	C	**3RT19 65-5AT31**		1	1 unit	101	0.792
S10	3RT12 6 Vacuum contactor	23 ... 26	B	**3RT19 66-5AB31**		1	1 unit	101	1.060
		42 ... 48	B	**3RT19 66-5AD31**		1	1 unit	101	0.995
		110 ... 127	A	**3RT19 66-5AF31**		1	1 unit	101	1.003
		200 ... 220	C	**3RT19 66-5AM31**		1	1 unit	101	0.650
		220 ... 240	A	**3RT19 66-5AP31**		1	1 unit	101	0.930
		240 ... 277	C	**3RT19 66-5AU31**		1	1 unit	101	0.997
		380 ... 420	B	**3RT19 66-5AV31**		1	1 unit	101	0.825
		440 ... 480	C	**3RT19 66-5AR31**		1	1 unit	101	0.650
		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.**

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

*** You can order this quantity or a multiple thereof.**

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

3RT19 55-5N...

For contactor Size	Type	Rated control supply voltage U_s V AC/DC	DT	Screw terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Withdrawable coils									
Solid-state operating mechanism									
For 24 V DC PLC output									
S6	3RT10 5, 3RT14 5	21 ... 27.3	C	**3RT19 55-5NB31**		1	1 unit	101	0.636
		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, 3RT14 6	21 ... 27.3	B	**3RT19 65-5NB31**		1	1 unit	101	0.808
		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 Vacuum contactor	21 ... 27.3	B	**3RT19 66-5NB31**		1	1 unit	101	0.650
		96 ... 127	C	**3RT19 66-5NF31**		1	1 unit	101	0.650
		200 ... 277	C	**3RT19 66-5NP31**		1	1 unit	101	1.030
S12	3RT10 7, 3RT14 7, 3RT12 7 Vacuum contactor	21 ... 27.3	B	**3RT19 75-5NB31**		1	1 unit	101	1.355
		96 ... 127	B	**3RT19 75-5NF31**		1	1 unit	101	0.951
		200 ... 277	B	**3RT19 75-5NP31**		1	1 unit	101	1.061
For 24 V DC PLC output/PLC relay output, with remaining lifetime indication (RLT) (Withdrawable coil with lateral solid-state module)									
S6	3RT10 5, 3RT14 5	96 ... 127	B	**3RT19 55-5PF31**		1	1 unit	101	0.570
		200 ... 277	B	**3RT19 55-5PP31**		1	1 unit	101	0.955
S10	3RT10 6, 3RT14 6	96 ... 127	B	**3RT19 65-5PF31**		1	1 unit	101	1.368
		200 ... 277	B	**3RT19 65-5PP31**		1	1 unit	101	1.176
S12	3RT10 7, 3RT14 7	96 ... 127	B	**3RT19 75-5PF31**		1	1 unit	101	1.100
		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, 3RT14 5	96 ... 127	B	**3RT19 55-5QF31**		1	1 unit	101	0.961
		200 ... 277	B	**3RT19 55-5QP31**		1	1 unit	101	0.946
S10	3RT10 6, 3RT14 6	96 ... 127	B	**3RT19 65-5QF31**		1	1 unit	101	0.650
		200 ... 277	B	**3RT19 65-5QP31**		1	1 unit	101	0.650
S12	3RT10 7, 3RT14 7	96 ... 127	B	**3RT19 75-5QF31**		1	1 unit	101	1.100
		200 ... 277	B	**3RT19 75-5QP31**		1	1 unit	101	1.460

For contactor Size	Type	Rated control supply voltage U_s V AC/DC	DT	Cage Clamp terminals Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Withdrawable coils									
Solid-state operating mechanism									
For 24 V DC PLC output									
S6	3RT10 5, 3RT14 5	21 ... 27.3	B	**3RT19 55-5NB32**		1	1 unit	101	0.654
		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, 3RT14 6	21 ... 27.3	B	**3RT19 65-5NB32**		1	1 unit	101	0.808
		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, 3RT14 7, 3RT12 7 Vacuum contactor	21 ... 27.3	B	**3RT19 75-5NB32**		1	1 unit	101	1.355
		96 ... 127	B	**3RT19 75-5NF32**		1	1 unit	101	0.951
		200 ... 277	B	**3RT19 75-5NP32**		1	1 unit	101	1.061

*** You can order this quantity or a multiple thereof.**

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

*** You can order this quantity or a multiple thereof.**

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

Selection and ordering data

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

3TX7 402-3.

3TX7 462-3.

3TX7 522-3., 3TX7 572-3.

3TX7 462-3., 3TX7 522-3.

3TX7 462-3.

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.

*** You can order this quantity or a multiple thereof.**

	For contactor Size	Type	Version		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Solid-state compatible auxiliary switch blocks with screw terminals											
5TY7 561-1.	**14** **2 and 4**	3TF68 and 3TF69 3TC44 ... 3TC48	For mounting onto the side of contactors. For use in dusty atmosphere and solid-state circuits with rated operating currents I_e/AC-14 and DC-13 from 1 mA to 300 mA at 3 V to 60 V. With 1 changeover contact. 2nd auxiliary switch block, left or right (replacement for 3TY6 561-1U, 3TY6 561-1V)		B	**3TY7 561-1UA00**		1	1 unit	101	0.053
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											
3TX7	**14**	3TF68	For screwing onto free screw end on middle connecting bar. 2 units required per contactor. (1 set = 2 units)		B	**3TX7 686-0A**		1	1 set	101	0.410
		3TF69			B	**3TX7 696-0A**		1	1 set	101	0.402
3TX6 526-3B	**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
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.

*** You can order this quantity or a multiple thereof.**

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

For contactor Size	Type	Remarks	Rated control supply voltage U_s V DC	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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	C	**3TY6 443-0LB4**		1	1 unit	101	0.340
			110	C	**3TY6 443-0LF4**		1	1 unit	101	0.330
4	3TC48		24	C	**3TY6 483-0LB4**		1	1 unit	101	1.170
			110	C	**3TY6 483-0LF4**		1	1 unit	101	1.116
6	3TB50		24	C	**3TY6 503-0LB4**		1	1 unit	101	1.100
			110	C	**3TY6 503-0LF4**		1	1 unit	101	1.100
8	3TB52 and 3TC52		24	C	**3TY6 523-0LB4**		1	1 unit	101	2.942
			110	C	**3TY6 523-0LF4**		1	1 unit	101	2.912
10	3TB54		24	C	**3TY6 543-0LB4**		1	1 unit	101	1.100
			110	C	**3TY6 543-0LF4**		1	1 unit	101	1.100
12	3TB56 and 3TC56		24	C	**3TY6 563-0LB4**		1	1 unit	101	1.100
			110	C	**3TY6 563-0LF4**		1	1 unit	101	1.100

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

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)

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

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

For contactor Type	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. kg
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

* You can order this quantity or a multiple thereof.

	For contactor Type	Rated control supply voltage U_s V AC	V DC	Power consumption of LED at U_s MW	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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..., 3TF2. ..-1...	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										
	3TF2. ..-0..., 3TF2. ..-1...	≤ 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										
	3TF2. ..-0..., 3TF2. ..-1...	--	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										
	3TF2. ..-0..., 3TF2. ..-1...	--	24 ... 250	--	B	**3TX4 490-3B**		1	1 unit	101	0.009
3TX4 490-4G	***Version with LED***										
	Varistors										
	3TF2. ..-0..., 3TF2. ..-1...	24 ... 48	12 ... 24	10 ... 120	B	**3TX4 490-4G**		1	1 unit	101	0.009
		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..., 3TF2. ..-1...	--	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 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.., 3TF2. ..-1A..	230/220, 50 Hz 230, 60 Hz 230, 50/60 Hz Operating range 0.8 ... 1.1 x U_s		--	B	**3TX4 490-1J**		1	1 unit	101	0.011
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_e: 6 A; CE and UL rated data:: max. 300 V, 6 A										
	3TF20 ..-3..., 3TF20 ..-7..., 3TK20 ..-3..., 3TK20 ..-7...				A	**3TX4 491-2A**		1	5 units	101	0.032
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.

*** You can order this quantity or a multiple thereof.**

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

Accessories

For contactor Type	Max. rated operating currents I_e/AC-1 (at 55 °C) of the contactors A	Max. conductor cross-sections mm²	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Links for paralleing (star jumpers)									
3-pole, without connection terminal[1)2)]									
3TG10	16 star jumpers can be reduced by one pole	--	►	**3RT19 16-4BA31**		1	1 unit	101	0.003
3-pole, with connection terminal[1)3)]									
3TG10	40	25	►	**3RT19 16-4BB31**		1	1 unit	101	0.015
4-pole, with connection terminal[1)4)]									
3TG10	50	25	C	**3RT19 16-4BB41**		1	1 unit	101	0.015

1) The links for paralleling can be reduced by one pole. The rated operating currents apply to each pole. The parallel connections are insulated.
2) Replacement for 3TX4 490-2C.
3) Replacement for 3TX4 490-2A.
4) Replacement for 3TX4 490-2B.

*** You can order this quantity or a multiple thereof.**

Selection and ordering data

Version	Rated control supply voltage U_s AC V	Rated control supply voltage U_s DC V	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Surge suppressors[1] for 3TH4 contactor relays									
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
Varistors[2] 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									
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

3TX7 402-3.

3TX4 090
mounted to contactor

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 Type	Version	Rated control supply voltage U_s AC 50/60 Hz V	Time range (minimum times) s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
ON-delay devices										
3TH42/ 3TH43	**NTC thermistors** Time tolerance + 100 %, -50 %	220 ... 230	0.1	B	**3TX4 180-0A**		1	1 unit	101	0.013

3TX4 180-0A

* You can order this quantity or a multiple thereof.

Accessories for 3TH contactor relays

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

3TX4 701-0AN1

For contactor Type	Rated control supply voltage U_s AC 50/60 Hz V	DC V	OFF delay s	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
3TH42 ..-0BF4 3TH43 ..-0BF4	110		0.15 or 0.3	A	**3TX4 701-0AN1**		1	1 unit	101	0.169
3TH42 ..-0BM4 3TH43 ..-0BM4	220		0.6 or 1.2	A	**3TX4 701-0AN1**		1	1 unit	101	0.169
3TH42 ..-0BP4 3TH43 ..-0BP4	230		0.6 or 1.2	A	**3TX4 701-0AN1**		1	1 unit	101	0.169
3TH42 ..-0BB4 3TH43 ..-0BB4		24	0.4 or 0.8	A	**3TX4 701-0BB4**		1	1 unit	101	0.168

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

3TX4 440-0A

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

3TX4 490-1A

For contactor Type	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. kg
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, 3TH2. ..-0BP4	220 V AC, 50/60 Hz	0.4 s or 0.8 s							

*** You can order this quantity or a multiple thereof.**

For contactor Type	Rated control supply voltage U_s V AC	V DC	Power consumption of LED at U_s MW	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
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_e: 6 A; CSA and UL rated data: max. 300 V, 6 A										
3TH20 ..-3, 3TH20 ..-7				A	**3TX4 491-2A**		1	5 units	101	0.032

3TX4 490-3A

3TX4 490-4G

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).

* You can order this quantity or a multiple thereof.

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

Selection and ordering data

For contactor Size	Type	Contacts Version NO	NC	NC	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Auxiliary switch blocks												
6	3TB50	1	1	--	Auxiliary switch block, left or right (replacement for 3TY6 501-1A/-1B)	B	**3TY6 501-1AA00**		1	1 unit	101	0.053
		1	--	1	Auxiliary switch block, right	C	**3TY6 501-1E**		1	1 unit	101	0.054
8 ... 12	3TB52 ...	1	1	--	Auxiliary switch block, left	B	**3TY6 561-1A**		1	1 unit	101	0.074
	3TB56	1	1	--	Auxiliary switch block, right	B	**3TY6 561-1B**		1	1 unit	101	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 561-1A

3TY6 5.

3TY6 502-0A

3TY6 520-0A

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

* You can order this quantity or a multiple thereof.

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

For contactor Size	Type	Auxiliary contacts Version NO	NC	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. 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
Arc chutes											
2	3TC44			1 arc chute, 2-pole	C	**3TY2 442-0A**		1	1 unit	101	0.166
4	3TC48				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

3TY6 561-1A

3TY2 520-0A

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

3TC2 48

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

*** You can order this quantity or a multiple thereof.**

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

For contactor Type	Version	Rated control supply voltage U_s V AC/DC	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Varistors									
3TC7	For sticking onto the contactor base	24	C	**3TX2 746-2F**		1	1 unit	101	0.011
		110	C	**3TX2 746-2G**		1	1 unit	101	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

3TY7 561-1.

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

3TY7.

For contactor Size	Type	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Magnetic coils									
AC operation									
14	3TF68	The coils are fitted as standard with varistors against overvoltage. The coil is supplied with switch-on electronics.	C	**3TY7 683-0C..**		1	1 unit	101	0.650
	3TF69		C	**3TY7 693-0C..**		1	1 unit	101	0.650
DC operation · DC economy circuit									
14	3TF68	Reversing contactors are required for size 14 contactors: Contactor type 3TF68 and 3TF69 Reversing contactor 3TC44 (70 mm wide, 85 mm high) The coils are supplied without reversing contactor.	C	**3TY7 683-0D..**		1	1 unit	101	0.560
	3TF69		C	**3TY7 693-0D..**		1	1 unit	101	0.560
Vacuum interrupters									
In order to ensure reliable operation of the contactors, only **original replacement interrupters from Siemens** should be used.									
14	3TF68	3 vacuum interrupters with mounting parts	B	**3TY7 680-0B**		1	1 set	101	3.490
	3TF69		B	**3TY7 690-0B**		1	1 set	101	3.638

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

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

*** You can order this quantity or a multiple thereof.**

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

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

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

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

*** You can order this quantity or a multiple thereof.**

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**	--	--	**B0**[3]	--
110 V AC	**F0**	**F0**	**F0**	--	**F0**[3]	**F0**[3]
230/220 V AC	**P0**[1]	**P0**[1]	**P0**[1]	--	**P0**[3]	**P0**[3]
240 V AC	**U0**	**U0**	--	--	**U0**[3]	**U0**[3]
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	--	--	--	**P7**[2]	--	--
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**

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.

2) Lower operating range limit at 220 V:
0.85 x U_s according to IEC 60947.

3) 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	--