

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

## Contactors with Extended Tolerance 0.7 ... 1.25 x U<sub>s</sub>, for Railway Applications

3RT10 motor contactors, 5.5 ... 45 kW

DC operation · DC solenoid system

Screw terminals

For screw and snap-on mounting onto standard mounting rail

Contactor control unit

Solenoid fitted with varistor

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

1) Auxiliary switch blocks mountable as standard contactors.

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

## Contactors with Extended Tolerance 0.7 ... 1.25 x U<sub>s</sub>, 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 <sub>ij</sub> : up to 70 °C		Auxiliary contacts <sup>1)</sup>		Rated control supply voltage U <sub>s</sub>	DT	Cage Clamp terminals for coil connections	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.	
Rated operational current I <sub>e</sub> at 400 V A	Rating of induction motors at 50 Hz 400 V kW	Ident. No.	Version			Order No.	Price per PU			kg	
		NO	NC	V DC							
<b>For screw and snap-on mounting onto 35 mm standard mounting rail</b>											
<b>Size S0</b>											
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
<b>Size S2</b>											
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
<b>For screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail</b>											
<b>Size S3</b>											
65	30	--	--	24	B	3RT10 44-3XB40-0LA2		1	1 unit	101	2.855
		--	--	110	B	3RT10 44-3XF40-0LA2		1	1 unit	101	2.787
80	37	--	--	24	B	3RT10 45-3XB40-0LA2		1	1 unit	101	2.720
		--	--	110	B	3RT10 45-3XF40-0LA2		1	1 unit	101	2.720
95	45	--	--	24	B	3RT10 46-3XB40-0LA2		1	1 unit	101	2.913
		--	--	110	B	3RT10 46-3XF40-0LA2		1	1 unit	101	2.913

1) Auxiliary switch blocks mountable as standard contactors.

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

## Contactors with Extended Tolerance 0.7 ... 1.25 x U<sub>s</sub>, for Railway Applications

3TB5 motor contactors, 55 ... 200 kW

### Overview

EN 60947-4-1.

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

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

### Application

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

### Selection and ordering data

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

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

1) The number of auxiliary contacts cannot be increased.

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

## Contactors with Extended Tolerance 0.7 ... 1.25 x U<sub>s</sub>, 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 <sub>e</sub> at 750 V A	Rating of AC loads at				Auxiliary contacts <sup>1)</sup>		Rated control supply voltage U <sub>s</sub> V DC	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
			220 V kW	440 V kW	600 V kW	750 V kW	NO	NC								
<b>Contactors for switching DC voltage · DC operation · DC solenoid system</b>																
<b>2</b>	DC-1	32	7	14	19.2	24	2	1	24	B	<b>3TC44 17-0LB4</b>		1	1 unit	101	1.321
	DC-3/DC-5	7.5	5	9	9	4			110	C						
<b>4</b>	DC-1	75	16.5	33	45	56	2	1	24	C	<b>3TC48 17-0LB4</b>		1	1 unit	101	4.857
	DC-3/DC-5	75	13	27	38	45			110	C						
<b>8</b>	DC-1	170	48	97	132	165	2	1	24	C	<b>3TC52 17-0LB4</b>		1	1 unit	101	10.722
	DC-3/DC-5	170	41	82	110	110			110	C						
<b>12</b>	DC-1	400	88	176	240	300	2	1	24	C	<b>3TC56 17-0LB4</b>		1	1 unit	101	24.150
	DC-3/DC-5	400	70	140	200	250			110	C						

1) The number of auxiliary contacts cannot be increased.

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

## 3TC Contactors for Switching DC Voltage

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

### Overview

#### 3TC4 and 3TC5

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

The contactors are finger-safe according to EN 50274.

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

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

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

#### 3TC7

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

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

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

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

### Application

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

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

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

## 3TC Contactors for Switching DC Voltage

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

### Selection and ordering data



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

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

#### DC operation

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

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

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

#### AC operation, 50/Hz

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

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

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

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

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

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

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

## 3TC Contactors for Switching DC Voltage

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



3TC74

3TC78

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

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

#### DC operation

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

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

#### DC operation

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

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

For spare parts, see page 3/144.

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

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

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

#### AC operation - Coils for 50 Hz

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

#### AC operation - Coils for 50/60 Hz

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

#### DC operation

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

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

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

# 3RH, 3TH Contactor Relays

## 3RH1 contactor relays, 4- and 8-pole

### Overview

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

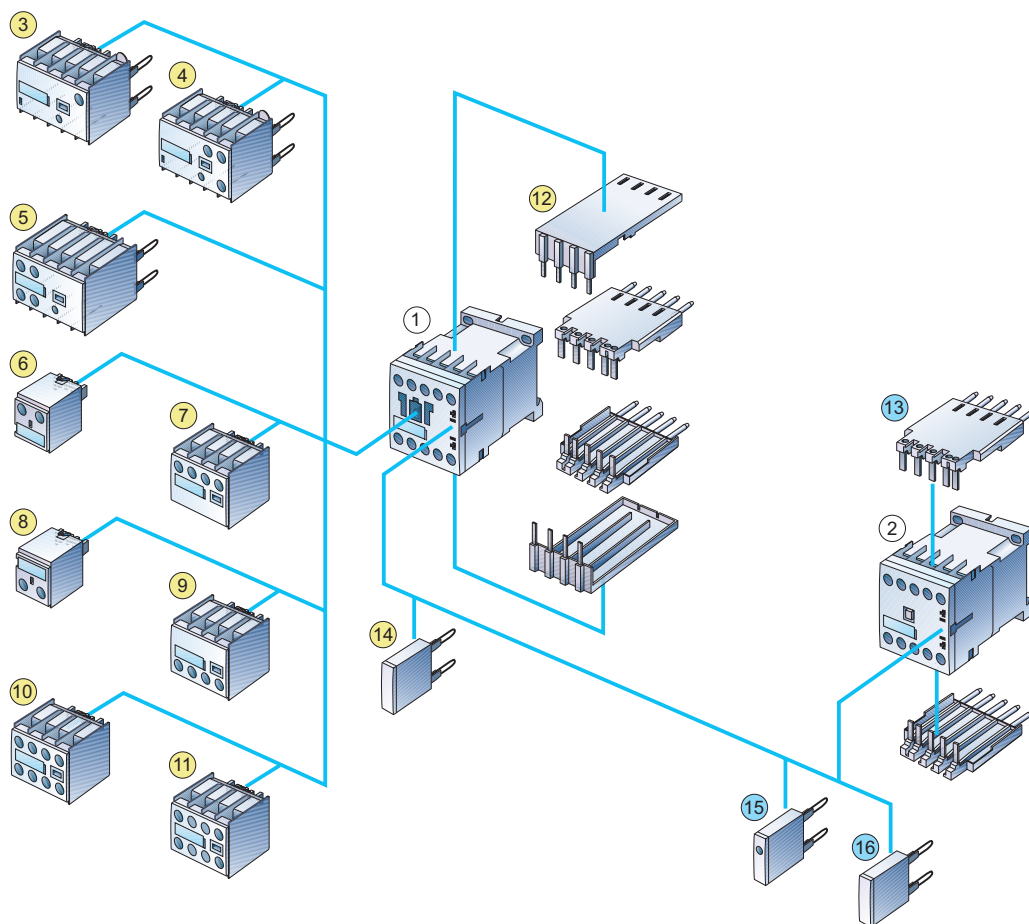
**Contactor relays and coupling relays**  
**Size S00 with accessories**

### AC and DC operation

IEC 60947, EN 60947 (VDE 0660)

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

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



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



# 3RH, 3TH Contactor Relays

## 3RH1 contactor relays, 4- and 8-pole

### Selection and ordering data

#### AC and DC operation Screw terminals



3RH11 ..-1...



3RH12 ..-1...

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

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

#### AC operation

AC 50/60 Hz<sup>1)</sup>

#### • Size S00

Terminal designations according to EN 50011

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

#### With permanently mounted auxiliary switch block

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

#### DC operation · DC solenoid system

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

#### With permanently mounted auxiliary switch block

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

For other voltages, see page 3/81.

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

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

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

# 3RH, 3TH Contactor Relays



## 3RH1 contactor relays, 4- and 8-pole

### AC and DC operation Cage Clamp terminals



3RH11 ...2...

3RH12 ...2...

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

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

### AC operation

AC 50/60 Hz<sup>1)</sup>

#### • 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  $U_s$ .

# 3RH, 3TH Contactor Relays

## 3RH1 contactor relays, 4- and 8-pole

Contactor	Type		3RH11
<b>Rated control supply voltages (the 10th and 11th position of the order number must be changed)</b>			
<b>AC operation</b>			<b>DC operation</b>
Coils for AC 50 and 60 Hz			Rated control supply voltage $U_s$
Rated control supply voltage $U_s$	Control supply voltage at		
<b>V AC</b>	<b>V AC</b>	<b>Option</b>	<b>V DC</b>
<b>50/60 Hz<sup>1)</sup></b>	<b>60 Hz</b>		<b>Option</b>
24	--	B0	12
42	--	D0	24
48	--	H0	42
110	--	F0	48
220	--	N2	60
230	--	P0	110
400	--	V0	125
			220
			230
For Japan <sup>2)</sup>			
100	110	G6	
200	220	N6	
400	440	R6	
For USA and Canada <sup>3)</sup>			
<b>V AC</b>	<b>V AC</b>		
<b>50 Hz</b>	<b>60 Hz</b>		
110	120	K6	
220	240	P6	

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

# 3RH, 3TH Contactor Relays

## 3RH14 latched contactor relays, 4-pole

### Overview

#### AC and DC operation

IEC 60947, EN 60947 (VDE 0660)

The terminal designations comply with EN 50011.

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

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

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

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

### Selection and ordering data



3RH14 22-1BB40

Rated operational current $I_e$ /AC-15/AC-14 at <b>230 V</b>	Contacts	Rated control supply voltage $U_s$	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
A	Ident. No. acc. to EN 50011 Version NO NC V								kg

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

#### AC operation

6	40 E	4	--	AC 50/60 Hz <sup>1)</sup>		DT	Order No.	PU	PS*	PG	Weight per PU approx.
				$U_s$	DT						
				24	B	▶	<b>3RH14 40-1AB00</b>	1	1 unit	101	0.385
				42	B		<b>3RH14 40-1AD00</b>	1	1 unit	101	0.380
				110	B		<b>3RH14 40-1AF00</b>	1	1 unit	101	0.385
				230	A		<b>3RH14 40-1AP00</b>	1	1 unit	101	0.384
	31 E	3	1	24	B		<b>3RH14 31-1AB00</b>	1	1 unit	101	0.385
				42	B		<b>3RH14 31-1AD00</b>	1	1 unit	101	0.386
				110	B		<b>3RH14 31-1AF00</b>	1	1 unit	101	0.385
				230	B		<b>3RH14 31-1AP00</b>	1	1 unit	101	0.386
	22 E	2	2	24	B		<b>3RH14 22-1AB00</b>	1	1 unit	101	0.389
				42	B		<b>3RH14 22-1AD00</b>	1	1 unit	101	0.388
				110	B		<b>3RH14 22-1AF00</b>	1	1 unit	101	0.387
				230	▶		<b>3RH14 22-1AP00</b>	1	1 unit	101	0.389

#### DC operation · DC solenoid system

6	40 E	4	--	DC		DT	Order No.	PU	PS*	PG	Weight per PU approx.
				$U_s$	DT						
				24	▶		<b>3RH14 40-1BB40</b>	1	1 unit	101	0.509
				110	B		<b>3RH14 40-1BF40</b>	1	1 unit	101	0.504
				220	B		<b>3RH14 40-1BM40</b>	1	1 unit	101	0.502
	31 E	3	1	24	B		<b>3RH14 31-1BB40</b>	1	1 unit	101	0.504
				110	B		<b>3RH14 31-1BF40</b>	1	1 unit	101	0.510
				220	B		<b>3RH14 31-1BM40</b>	1	1 unit	101	0.494
	22 E	2	2	24	▶		<b>3RH14 22-1BB40</b>	1	1 unit	101	0.504
				110	B		<b>3RH14 22-1BF40</b>	1	1 unit	101	0.505
				220	B		<b>3RH14 22-1BM40</b>	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  $U_s$ .

# 3RH, 3TH Contactor Relays

## 3TH4 contactor relays, 8- and 10-pole

### 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.
	<b>230/220 V</b> 400/380 V 500 V 690/660 V	Ident. No. acc. to EN 50011	Version						
Number	<b>A</b> 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  $U_s = AC\ 50\ Hz\ 230/220\ V^{1)}$

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

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

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

# 3RH, 3TH Contactor Relays

## 3TH4 contactor relays, 8- and 10-pole



3TH43 ...-0A..

3TH43 ...-0B..

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

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

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

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

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

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

For accessories, see page 3/139.

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

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

Contactor	Type	3TH42/3TH43	
<b>Rated control supply voltages (the 10th and 11th position of the order number must be changed)</b>			
<b>AC operation</b>		<b>DC operation</b>	
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 $U_s$
<b>V AC 50 Hz</b>	<b>V AC 60 Hz</b>	<b>V AC 50/60 Hz</b>	<b>V DC</b>
	<b>Option</b>	<b>Option</b>	<b>Option</b>
24	B0	24	A4
36	G0	42	B4
42	D0	110	C4
48	H0	115	V4
60	E0	120	D4
110	F0	220	W4
125/127	L0	230	E4
230/220	P0 <sup>1)</sup>	240	F4
240	U0	440	G4
400/380	V0 <sup>1)</sup>		220
415	R0		230
500	S0		240
For Japan			
100	100-110		M4
200	200-220		P4
For USA and Canada			
110	120		Q4
220	240		

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

### Overview

#### AC and DC operation

IEC 60947 (VDE 0660).

The terminal designations comply with EN 50011.

#### *3TH2 contactor relays*

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

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

#### *3TH27 latched auxiliary contactors*

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

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

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

# 3RH, 3TH Contactor Relays

## 3TH2 contactor relays, 4- and 8-pole

### Selection and ordering data

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

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

#### AC operation



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

#### DC operation - DC solenoid system

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

3TH20 ...0A..

### Contactor relays with 6.3 mm x 0.8 mm flat connectors

#### AC operation



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

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

for screw mounting (diagonal)

3TH20 ...3...

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

#### DC operation - DC solenoid system

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

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

for screw mounting (diagonal)

3TH20 ...7...

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

### Contactor relays with solder pin connectors for printed circuit boards

#### AC operation



For screw mounting (diagonal)

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

#### DC operation - DC solenoid system

For screw mounting (diagonal)

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

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

#### AC operation



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

#### DC operation - DC solenoid system

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

For accessories, see page 3/140.



# 3RH, 3TH Contactor Relays

## 3TH2 contactor relays, 4- and 8-pole

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

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



### AC operation

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

### DC operation · DC solenoid system

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

3TH27

For accessories, see page 3/140.

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

### AC operation

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

#### Coils for AC 50 Hz

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

### 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 <sup>1)</sup>

### DC operation

Rated control supply voltage  $U_s$

V DC	
24	B4

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

Please inquire about further voltages.

# 3RH, 3TH Contactor Relays

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

### Application

#### DC operation

IEC 60947 and EN 60947 (VDE 0660)

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

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

### Selection and ordering data

#### DC operation

#### Screw terminals


#### Low power consumption

#### Extended operating range of the coils

#### Integrated coil circuit



3RH11 ...-1.B40

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

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

#### • Size S00

Terminal designations according to EN 50011

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

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

Diode, varistor or RC element attachable	<b>6</b>	<b>40 E</b>	4	--	▶	<b>3RH11 40-1HB40</b>	1	1 unit	101	0.258
		<b>31 E</b>	3	1	▶	<b>3RH11 31-1HB40</b>	1	1 unit	101	0.258
		<b>22 E</b>	2	2	▶	<b>3RH11 22-1HB40</b>	1	1 unit	101	0.259
Built-in diode	<b>6</b>	<b>40 E</b>	4	--	▶	<b>3RH11 40-1JB40</b>	1	1 unit	101	0.258
		<b>31 E</b>	3	1	▶	<b>3RH11 31-1JB40</b>	1	1 unit	101	0.259
		<b>22 E</b>	2	2	▶	<b>3RH11 22-1JB40</b>	1	1 unit	101	0.260
Built-in varistor	<b>6</b>	<b>40 E</b>	4	--	▶	<b>3RH11 40-1KB40</b>	1	1 unit	101	0.259
		<b>31 E</b>	3	1	▶	<b>3RH11 31-1KB40</b>	1	1 unit	101	0.259
		<b>22 E</b>	2	2	▶	<b>3RH11 22-1KB40</b>	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	<b>6</b>	<b>40 E</b>	4	--	B	<b>3RH11 40-1MB40-OKT0</b>	1	1 unit	101	0.259
		<b>31 E</b>	3	1	B	<b>3RH11 31-1MB40-OKT0</b>	1	1 unit	101	0.259
		<b>22 E</b>	2	2	A	<b>3RH11 22-1MB40-OKT0</b>	1	1 unit	101	0.262
Built-in diode	<b>6</b>	<b>40 E</b>	4	--	B	<b>3RH11 40-1VB40</b>	1	1 unit	101	0.260
		<b>31 E</b>	3	1	A	<b>3RH11 31-1VB40</b>	1	1 unit	101	0.260
		<b>22 E</b>	2	2	B	<b>3RH11 22-1VB40</b>	1	1 unit	101	0.261
Built-in varistor	<b>6</b>	<b>40 E</b>	4	--	B	<b>3RH11 40-1WB40</b>	1	1 unit	101	0.260
		<b>31 E</b>	3	1	A	<b>3RH11 31-1WB40</b>	1	1 unit	101	0.260
		<b>22 E</b>	2	2	A	<b>3RH11 22-1WB40</b>	1	1 unit	101	0.261

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

# 3RH, 3TH Contactor Relays

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

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



3RH11 ...2.B40

Surge suppressors	Rated operational current $I_{op}$ AC-15/AC-14 at <b>230 V</b>	Auxiliary contacts	DT	Cage Clamp terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		
		Ident. No. acc. to EN 50011	Version	Order No.	Price per PU					
	<b>A</b>	<table border="0"> <tr> <td>NO</td> <td>NC</td> </tr> </table>	NO	NC						kg
NO	NC									

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	<b>6</b>	<b>40 E</b>	4	--	B	<b>3RH11 40-2HB40</b>	1	1 unit	101	0.254
		<b>31 E</b>	3	1	B	<b>3RH11 31-2HB40</b>	1	1 unit	101	0.253
		<b>22 E</b>	2	2	▶	<b>3RH11 22-2HB40</b>	1	1 unit	101	0.255
Built-in diode	<b>6</b>	<b>40 E</b>	4	--	B	<b>3RH11 40-2JB40</b>	1	1 unit	101	0.256
		<b>31 E</b>	3	1	▶	<b>3RH11 31-2JB40</b>	1	1 unit	101	0.256
		<b>22 E</b>	2	2	▶	<b>3RH11 22-2JB40</b>	1	1 unit	101	0.255
Built-in varistor	<b>6</b>	<b>40 E</b>	4	--	▶	<b>3RH11 40-2KB40</b>	1	1 unit	101	0.256
		<b>31 E</b>	3	1	▶	<b>3RH11 31-2KB40</b>	1	1 unit	101	0.254
		<b>22 E</b>	2	2	▶	<b>3RH11 22-2KB40</b>	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	<b>6</b>	<b>40 E</b>	4	--	B	<b>3RH11 40-2MB40-OKT0</b>	1	1 unit	101	0.255
		<b>31 E</b>	3	1	B	<b>3RH11 31-2MB40-OKT0</b>	1	1 unit	101	0.255
		<b>22 E</b>	2	2	B	<b>3RH11 22-2MB40-OKT0</b>	1	1 unit	101	0.256
Built-in diode	<b>6</b>	<b>40 E</b>	4	--	B	<b>3RH11 40-2VB40</b>	1	1 unit	101	0.256
		<b>31 E</b>	3	1	B	<b>3RH11 31-2VB40</b>	1	1 unit	101	0.256
		<b>22 E</b>	2	2	B	<b>3RH11 22-2VB40</b>	1	1 unit	101	0.256
Built-in varistor	<b>6</b>	<b>40 E</b>	4	--	B	<b>3RH11 40-2WB40</b>	1	1 unit	101	0.255
		<b>31 E</b>	3	1	B	<b>3RH11 31-2WB40</b>	1	1 unit	101	0.256
		<b>22 E</b>	2	2	B	<b>3RH11 22-2WB40</b>	1	1 unit	101	0.255

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

# 3RT Coupling Relays

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

## Application

### DC operation

IEC 60947, EN 60947 (VDE 0660)

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

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

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

## Selection and ordering data

### DC operation

### Screw terminals

### Low power consumption

### Extended operating range of the coils

### Integrated coil circuit

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

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

### Size S00

Terminal designations according to EN 50012

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

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



3RT10 1.-1HB4.

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

For accessories, see page 3/119.

# 3RT Coupling Relays

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

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

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

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

## Size S00



3RT10 1.-2JB4

Terminal designations according to EN 50012

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

*For accessories, see page 3/119.*

# 3RT Coupling Relays

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

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

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

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

### Size S00



3RT10 1.-1VB4.

Terminal designations according to DIN 50012

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

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

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

For accessories, see page 3/119.

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

# 3RT Coupling Relays

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

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

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

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

## Size S00



3RT10 1.-2WB4.

Terminal designations according to DIN 50012

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

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

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

*For accessories, see page 3/119.*

# 3RT Coupling Relays

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

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

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

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

#### Size S0

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

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



3RT10 2.-1KB40

For accessories, see page 3/112.

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

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

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

#### Size S0

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

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



3RT10 2.-3KB40

For accessories, see page 3/112.



# 3TX7, 3RS18 Coupling Relays

## 3TX7 Coupling Relays, Narrow Design

Relay couplers

### Application

#### AC and DC operation

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






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

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

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

### Selection and ordering data

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

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

Note:



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

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

# 3TX7, 3RS18 Coupling Relays

## 3TX7 Coupling Relays, Narrow Design

### Relay couplers

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


#### 3TX7 004 relay couplers with screw terminals



Output coupling links										
24	--	1	without	6.2	▶	<b>3TX7 004-1LB00</b>	1	1 unit	101	0.033
230	--	1	without	6.2	▶	<b>3TX7 004-1LF00</b>	1	1 unit	101	0.034
	--	1	without	12.5 <sup>1)</sup>	▶	<b>3TX7 004-1BF05</b>	1	1 unit	101	0.057
24	--	1 <sup>2)</sup>	without	6.2	▶	<b>3TX7 004-1LB02</b>	1	1 unit	101	0.033
24	1	--	without	6.2	▶	<b>3TX7 004-1MB00</b>	1	1 unit	101	0.037
230	1	--	without	6.2	▶	<b>3TX7 004-1MF00</b>	1	1 unit	101	0.037
24	--	1	with	12.5	▶	<b>3TX7 004-1BB10</b>	1	1 unit	101	0.052
Input coupling links										
24	1 <sup>2)</sup>	--	without	6.2	▶	<b>3TX7 004-2MB02</b>	1	1 unit	101	0.037
110	1 <sup>2)</sup>	--	without	6.2	▶	<b>3TX7 004-2ME02</b>	1	1 unit	101	0.037
230	1 <sup>2)</sup>	--	without	6.2	▶	<b>3TX7 004-2MF02</b>	1	1 unit	101	0.038

3TX7 004-1LB0.

#### 3TX7 005 relay couplers with spring-loaded terminals



Output coupling links										
24	--	1	without	6.2	▶	<b>3TX7 005-1LB00</b>	1	1 unit	101	0.028
230	--	1	without	6.2	▶	<b>3TX7 005-1LF00</b>	1	1 unit	101	0.030
24	--	1 <sup>2)</sup>	without	6.2	▶	<b>3TX7 005-1LB02</b>	1	1 unit	101	0.028
24	1	--	without	6.2	▶	<b>3TX7 005-1MB00</b>	1	1 unit	101	0.034
230	1	--	without	6.2	▶	<b>3TX7 005-1MF00</b>	1	1 unit	101	0.034
Input coupling links										
24	1 <sup>2)</sup>	--	without	6.2	C	<b>3TX7 005-2MB02</b>	1	1 unit	101	0.034
230	1 <sup>2)</sup>	--	without	6.2	B	<b>3TX7 005-2MF02</b>	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	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Type								kg
Connecting combs								
	3TX7 004	24 terminals, blue Width 6.2 mm	▶	<b>3TX7 004-8AA00</b>		1	1 unit	101 0.017
Connecting leads								
	3TX7 002, 3TX7 003, 3TX7 004, 3TX7 005	24 terminals with supply, blue	A	<b>3TX7 004-8BA00</b>		1	1 unit	101 0.050

# 3TX7, 3RS18 Coupling Relays

## 3TX7 Coupling Relays, Narrow Design

Relay couplers with plug-in design


### Benefits

#### Advantages

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

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

### Selection and ordering data



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

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

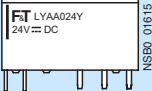
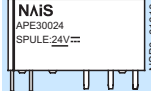

# 3TX7, 3RS18 Coupling Relays



## 3TX7 Coupling Relays, Narrow Design

### Relay couplers with plug-in design

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

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

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

1)  = AgSn0  
 2)  = AgSn0+Au

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

# 3TX7, 3RS18 Coupling Relays

## 3TX7 Coupling Relays, Narrow Design

Semiconductor couplers

### Overview

#### AC and DC operation

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

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

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

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

### Selection and ordering data

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

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



3TX7 002

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



3TX7 004-3AB04

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

Note:

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

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



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

# 3TX7, 3RS18 Coupling Relays

## 3TX7 Coupling Relays, Narrow Design

### Semiconductor couplers

#### Accessories

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

3

# 3TX7, 3RS18 Coupling Relays

## 3RS18 Coupling Relays with Industrial Housing

Relay couplers

### Overview

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

The relay coils are protected internally with suppression diodes.

### Benefits

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




### Selection and ordering data

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

1) Hard gold-plated contacts.

# LZX Plug-in Relays

## Relay couplers

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



# LZX Plug-in Relays

## Relay couplers






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

Note



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

# LZX Plug-in Relays

## Relay couplers

Version	Rated control supply voltage $U_s$	Contacts Version	Width	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		
	V		mm							kg		
<b>Industrial relays, 8-, 11-, and 14-pole, PT series</b>												
<i>Individual modules for customer assembly</i>												
<b>Mini industrial relays</b>												
 LZX:PT570024  LZX:PT78702	• With test bracket and mechanical contact position indicator, without LED <sup>1)</sup>	24 DC	2 3 4	22.5	▶ ▶ ▶	<b>LZX:PT270024</b> <b>LZX:PT370024</b> <b>LZX:PT570024</b>		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.030 0.031 0.031	
		24 AC	2 3 4	22.5	▶ A ▶	<b>LZX:PT270524</b> <b>LZX:PT370524</b> <b>LZX:PT570524</b>		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.030 0.031 0.031	
		115 AC	2 3 4	22.5	C A ▶	<b>LZX:PT270615</b> <b>LZX:PT370615</b> <b>LZX:PT570615</b>		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.028 0.030 0.030	
		230 AC	2 3 4	22.5	▶ ▶ ▶	<b>LZX:PT270730</b> <b>LZX:PT370730</b> <b>LZX:PT570730</b>		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.029 0.030 0.030	
		• With hard gold-plating	24 DC 230 AC	4	22.5	▶ ▶	<b>LZX:PT580024</b> <b>LZX:PT580730</b>		1 1	1 unit 1 unit	101 101	0.031 0.031
		• Without test bracket	24 DC 24 AC 230 AC	4	22.5	C C C	<b>LZX:PT520024</b> <b>LZX:PT520524</b> <b>LZX:PT520730</b>		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.031 0.032 0.031
	<b>Sockets for mounting onto standard mounting rail</b>											
		--	--	--	27	▶ ▶ ▶	<b>LZX:PT78702</b> <b>LZX:PT78703</b> <b>LZX:PT78704</b>		1 1 1	1 unit 1 unit 1 unit	101 101 101	0.051 0.062 0.063
	<i>Accessories for PT</i>											
	<b>LED modules</b>											
	 LZX:RPML0024  LZX:PT16016  LZX:PT16040	• Red										
		with freewheel diode	24 DC	--	12.5	▶	<b>LZX:RPML0024</b>		1	1 unit	101	0.003
without freewheel diode		24 AC/DC 110 ... 230 AC/DC			▶ ▶	<b>LZX:RPML0524</b> <b>LZX:RPML0730</b>		1 1	1 unit 1 unit	101 101	0.003 0.003	
	• Green											
	with freewheel diode	24 DC	--	12.5	▶	<b>LZX:RPMG0024</b>		1	1 unit	101	0.003	
	without freewheel diode	24 AC 110 ... 230 AC/DC			C ▶	<b>LZX:RPMG0524</b> <b>LZX:RPMG0730</b>		1 1	1 unit 1 unit	101 101	0.003 0.003	
<b>Fixing/ejection brackets</b>												
	--	--	--	26	▶	<b>LZX:PT16016</b>		100	10 units	101	0.100	
<b>Labels</b>												
	--	--	--	26	▶	<b>LZX:PT16040</b>		100	10 units	101	0.100	
<b>RC elements</b>												
	24 ... 48 AC 110 ... 230 AC	--	--	26	C ▶	<b>LZX:RPMU0548</b> <b>LZX:RPMU0730</b>		1 1	1 unit 1 unit	101 101	0.004 0.003	
<b>Freewheel diodes with connection to A1</b>												
	6 ... 230 DC	--	--	26	▶	<b>LZX:RPMT00A0</b>		1	1 unit	101	0.002	

### for PT relays<sup>2)</sup>



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

# LZX Plug-in Relays

## Relay couplers

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

Note:

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

# 3TG10 Power Relays/Miniature Contactors

4-pole, 4 kW

## Overview

### Version

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

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

## Application

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

### AC and DC operation

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

### Surge suppression

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

### Overload and short-circuit protection

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

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

## Selection and ordering data

Rated data		Main contacts		Rated control supply voltage $U_s$	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Utilization category	AC-2 and AC-3	Version									
AC - 1 Switching of resistive loads at 55 °C	Operating current $I_e$ up to 400 V	Power of three-phase loads at 50 Hz and 400 V	Operating current $I_e$ up to 400 V <sup>1)</sup>	Power of three-phase loads at 50 Hz and 400 V	NO NC						
A	kW	A	kW		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	▶	<b>3TG10 10-0AC2</b>	1	1 unit	101	0.157
					110	▶	<b>3TG10 10-0AG2</b>	1	1 unit	101	0.158
					230	▶	<b>3TG10 10-0AL2</b>	1	1 unit	101	0.156
				3 1	24	▶	<b>3TG10 01-0AC2</b>	1	1 unit	101	0.157
					110	▶	<b>3TG10 01-0AG2</b>	1	1 unit	101	0.158
					230	▶	<b>3TG10 01-0AL2</b>	1	1 unit	101	0.157

### DC operation

20	13	8.4	4	4 --	24	▶	<b>3TG10 10-0BB4</b>	1	1 unit	101	0.157
				3 1	24	▶	<b>3TG10 01-0BB4</b>	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	<b>3TG10 10-1AC2</b>	1	1 unit	101	0.146
					110	D	<b>3TG10 10-1AG2</b>	1	1 unit	101	0.146
					230	▶	<b>3TG10 10-1AL2</b>	1	1 unit	101	0.145
				3 1	24	D	<b>3TG10 01-1AC2</b>	1	1 unit	101	0.147
					110	D	<b>3TG10 01-1AG2</b>	1	1 unit	101	0.146
					230	▶	<b>3TG10 01-1AL2</b>	1	1 unit	101	0.144

### DC operation

16	10	8.4	4	4 --	24	D	<b>3TG10 10-1BB4</b>	1	1 unit	101	0.146
		8.4	4	3 1	24	D	<b>3TG10 01-1BB4</b>	1	1 unit	101	0.146

3TG10 ...-1...

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

## Accessories for 3RT, 3RH contactors and contactor relays

### Overview

#### Snap-on auxiliary contact blocks

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

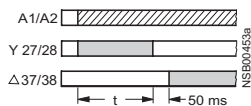
#### Solid-state time-delay auxiliary switch block

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

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

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

#### Wye-delta function:



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

#### Size S00

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

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

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

#### Sizes S0 to S12

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

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

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

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

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

#### Solid-state time-delay block with semiconductor output

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

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

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

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

#### Size S00

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

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

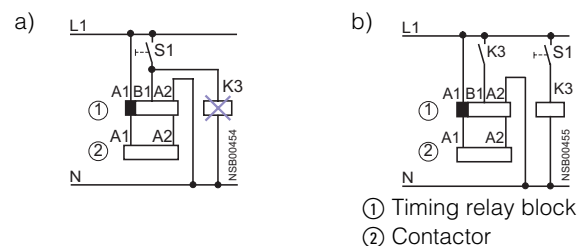
The solid-state, time-delay block cannot be mounted on size S00 coupling relays.

#### Sizes S0 to S3

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

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

#### Note on configuration



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

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

#### OFF-delay device for size S00 to S3 contactors

##### AC and DC operation

IEC 60947, EN 60947

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

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

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

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

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

## Accessories for 3RT, 3RH contactors and contactor relays

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

### Operation

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

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

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

### Surge suppressors

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

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

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

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

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

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

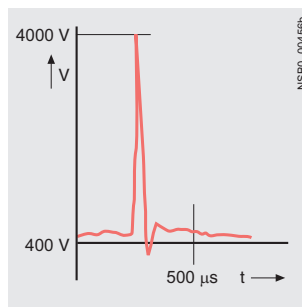
### Note:

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

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



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



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

### Reducing contact arcing

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

### Higher operational reliability

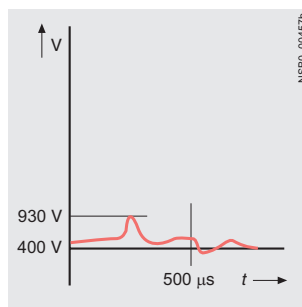
Since the EMC interference suppression module achieves a significant reduction in radio-frequency components and the voltage level in three phases, the contact endurance is also improved considerably. This makes an important contribution towards enhancing the reliability and availability of the system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

### Dispensing with fine graduations

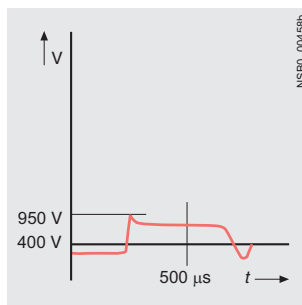
There is no need for fine graduations within each performance class, as smaller motors inherently have a higher inductance, so that one solution for all fixed-speed drives up to 5.5 kW is adequate.

Two electrical variants are available:

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



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



# Accessories and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays

### Accessories for 3RT, 3RH contactors and contactor relays

#### **Additional load module**

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

#### **Coupling links for mounting on contactors of sizes S0 to S3**

##### DC operation

IEC 60947 and EN 60947

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

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

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

##### Surge suppression

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

##### Mounting

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

#### **Solder pin adapters**

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

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

#### **Screw adapters**

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

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

#### **Sealable covers for sizes S00 to S12**

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

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

# Accessories and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays

### Accessories for 3RT, 3RH contactors and contactor relays

#### Selection and ordering data



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



3RH19 21-1HA..



3RH19 11-1AA.



3RH19 11-1LA..

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

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

##### Size S00

#### For assembling contactors with 2, 4 and 5 auxiliary contacts

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

##### Sizes S0 ... S12<sup>1)</sup>

#### 4-pole

3RT10 2,	<b>31</b>	3	1	--	--	▶	<b>3RH19 21-1HA31</b>	1	1 unit	101	0.074
3RT1. 3 ... 3RT1. 7	<b>22</b>	2	2	--	--	▶	<b>3RH19 21-1HA22</b>	1	1 unit	101	0.073
	<b>13</b>	1	3	--	--	▶	<b>3RH19 21-1HA13</b>	1	1 unit	101	0.073
	<b>22<sup>2)</sup></b>	2	2	--	--	B	<b>3RH19 21-1XA22-0MA0</b>	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,	<b>20</b>	2	--	--	--	▶	<b>3RH19 11-1FA20</b>	1	1 unit	101	0.041
3RH11,	<b>11</b>	1	1	--	--	▶	<b>3RH19 11-1FA11</b>	1	1 unit	101	0.041
3RH14	<b>02</b>	--	2	--	--	▶	<b>3RH19 11-1FA02</b>	1	1 unit	101	0.040
	<b>11 U</b>	--	--	1	1	▶	<b>3RH19 11-1FB11</b>	1	1 unit	101	0.040
	<b>40</b>	4	--	--	--	▶	<b>3RH19 11-1FA40</b>	1	1 unit	101	0.052
	<b>31</b>	3	1	--	--	▶	<b>3RH19 11-1FA31</b>	1	1 unit	101	0.052
	<b>22</b>	2	2	--	--	▶	<b>3RH19 11-1FA22</b>	1	1 unit	101	0.052
	<b>22 U</b>	--	--	2	2	▶	<b>3RH19 11-1FC22</b>	1	1 unit	101	0.052
	<b>11, 11 U</b>	1	1	1	1	▶	<b>3RH19 11-1FB22</b>	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	--	--	--	▶	<b>3RH19 11-1AA10</b>	1	1 unit	101	0.016
3RH11,	--	--	1	--	--	▶	<b>3RH19 11-1AA01</b>	1	1 unit	101	0.016
3RH14	--	1	1	--	--	▶	<b>3RH19 11-1LA11</b>	1	1 unit	101	0.052
	--	2	--	--	--	▶	<b>3RH19 11-1LA20</b>	1	1 unit	101	0.052

##### • Cable entry from below

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

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

- Exception: 3RT16.
- With location digits 5, 6, 7, 8.

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



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

Accessories for 3RT, 3RH contactors and  
contactor relays



3RH19 11-2HA .



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

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

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

### Size S00

#### For assembling contactors with 2, 4 and 5 auxiliary contacts

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

### Sizes S0 ... S12<sup>1)</sup>

#### 4-pole

3RT10 2,	<b>31</b>	3	1	--	--	▶	<b>3RH19 21-2HA31</b>	1	1 unit	101	0.070
3RT1. 3 ... 3RT1. 7	<b>22</b>	2	2	--	--	▶	<b>3RH19 21-2HA22</b>	1	1 unit	101	0.069
	<b>13</b>	1	3	--	--	▶	<b>3RH19 21-2HA13</b>	1	1 unit	101	0.068
	<b>22<sup>2)</sup></b>	2	2	--	--	D	<b>3RH19 21-2XA22-OMA0</b>	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,	<b>20</b>	2	--	--	--	▶	<b>3RH19 11-2FA20</b>	1	1 unit	101	0.045
3RH11,	<b>11</b>	1	1	--	--	▶	<b>3RH19 11-2FA11</b>	1	1 unit	101	0.045
3RH14	<b>02</b>	--	2	--	--	▶	<b>3RH19 11-2FA02</b>	1	1 unit	101	0.046
	<b>11 U</b>	--	--	1	1	A	<b>3RH19 11-2FB11</b>	1	1 unit	101	0.046
	<b>40</b>	4	--	--	--	▶	<b>3RH19 11-2FA40</b>	1	1 unit	101	0.059
	<b>31</b>	3	1	--	--	▶	<b>3RH19 11-2FA31</b>	1	1 unit	101	0.057
	<b>22</b>	2	2	--	--	▶	<b>3RH19 11-2FA22</b>	1	1 unit	101	0.058
	<b>22 U</b>	--	--	2	2	▶	<b>3RH19 11-2FC22</b>	1	1 unit	101	0.058
	<b>11, 11 U</b>	1	1	1	1	B	<b>3RH19 11-2FB22</b>	1	1 unit	101	0.058

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

1) Exception: 3RT16.

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

# Accessories and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays

### Accessories for 3RT, 3RH contactors and contactor relays



3RH19 21-1F..



3RH19 21-1C..



3RH19 21-1LA..



3RH19 21-1MA..

For contactors	Auxiliary contacts	DT	Screw terminals	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
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<sup>1)</sup>

#### 4-pole auxiliary switch blocks

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

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

3RT1. 2	--	1	--	--	--	▶	<b>3RH19 21-1CA10</b>	1	1 unit	101	0.020
...	--	--	1	--	--	▶	<b>3RH19 21-1CA01</b>	1	1 unit	101	0.019
3RT1. 7	--	--	--	1	--	▶	<b>3RH19 21-1CD10</b>	1	1 unit	101	0.020
	--	--	--	--	1	▶	<b>3RH19 21-1CD01</b>	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	--	--	▶	<b>3RH19 21-1LA11</b>	1	1 unit	101	0.074
3RT1. 3	--	2	--	--	--	▶	<b>3RH19 21-1LA20</b>	1	1 unit	101	0.075
...	--	--	2	--	--	▶	<b>3RH19 21-1LA02</b>	1	1 unit	101	0.074
3RT1. 7											

##### • Cable entry from below

3RT1. 2,	--	1	1	--	--	▶	<b>3RH19 21-1MA11</b>	1	1 unit	101	0.074
3RT1. 3	--	2	--	--	--	▶	<b>3RH19 21-1MA20</b>	1	1 unit	101	0.076
...	--	--	2	--	--	▶	<b>3RH19 21-1MA02</b>	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<sup>1)</sup>

#### 4-pole auxiliary switch blocks

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

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

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

1) Exception: 3RT16.



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

## Accessories for 3RT, 3RH contactors and contactor relays

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



3RH19 11-1GA..

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

### Snap-on auxiliary switch blocks according to EN 50011



For assembling contactor relays with 8 contacts

3RH11 40,	<b>80 E</b>	4	--	▶	<b>3RH19 11-1GA40</b>	1	1 unit	101	0.052
3RH14 40	<b>71 E</b>	3	1	▶	<b>3RH19 11-1GA31</b>	1	1 unit	101	0.052
(Ident. No. 40 E)	<b>62 E</b>	2	2	▶	<b>3RH19 11-1GA22</b>	1	1 unit	101	0.052
	<b>53 E</b>	1	3	▶	<b>3RH19 11-1GA13</b>	1	1 unit	101	0.052
	<b>44 E</b>	--	4	▶	<b>3RH19 11-1GA04</b>	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,	<b>80 E</b>	4	--	▶	<b>3RH19 11-2GA40</b>	1	1 unit	101	0.059
3RH14 40	<b>71 E</b>	3	1	▶	<b>3RH19 11-2GA31</b>	1	1 unit	101	0.059
(Ident. No. 40 E)	<b>62 E</b>	2	2	▶	<b>3RH19 11-2GA22</b>	1	1 unit	101	0.058
	<b>53 E</b>	1	3	▶	<b>3RH19 11-2GA13</b>	1	1 unit	101	0.058
	<b>44 E</b>	--	4	▶	<b>3RH19 11-2GA04</b>	1	1 unit	101	0.058

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

# Accessories and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays



### Accessories for 3RT, 3RH contactors and contactor relays



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



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

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

#### Laterally mountable auxiliary switch blocks according to EN 50012

##### Sizes S0 ... S12

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

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

##### 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



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

Accessories for 3RT, 3RH contactors and contactor relays



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

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

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

### Laterally mountable auxiliary switch blocks according to EN 50012

Sizes S0 ... S12

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

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

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.
Type	Version	 NO  NO  NC  NC		Order No.	Price per PU			kg

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

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 and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays

### Accessories for 3RT, 3RH contactors and contactor relays



3RH19 11-2NF ..



3RH19 21-2JE22



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

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

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

##### Sizes S00

3RT1. 1, 3RH11, 3RH14	For use in dusty atmosphere and solid-state circuits with rated operating currents $I_{th}/AC-14$ and DC-13 from 1 mA to 300 mA at 3 V to 60 V. Hard gold-plated contacts. No mirror contacts.	1 2 --	-- -- 2	1 --	▶ ▶ ▶				

##### Sizes S0 ... S12

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

#### Solid-state compatible auxiliary switch blocks, laterally mountable, according to EN 50012

##### Sizes S0 ... S12

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

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

##### Sizes S3 ... S12

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

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

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

## Accessories for 3RT, 3RH contactors and contactor relays

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

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

### Size S00



3RT19 16-2....

#### ON-delay (varistor integrated)

3RT1. 1, 3RH11 <sup>2)</sup> 3RH14	1 NO + 1 NC	24 AC/DC <sup>3)</sup>	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 <sup>3)</sup>		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 <sup>3)</sup>		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)<sup>4)</sup>

3RT1. 1, 3RH11 <sup>2)</sup> 3RH14	1 NO + 1 NC	24 AC/DC <sup>3)</sup>	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 <sup>3)</sup>		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 <sup>3)</sup>		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 <sup>2)</sup>	1 NO delayed + 1 NO, instan- taneous, dead time 50 ms	24 AC/DC <sup>3)</sup>	1.5 ... 30	▶	3RT19 16-2GJ51	1	1 unit	101	0.086
		100 ... 127 AC <sup>3)</sup>	1.5 ... 30	D	3RT19 16-2GC51	1	1 unit	101	0.087
		200 ... 240 AC <sup>3)</sup>	1.5 ... 30	▶	3RT19 16-2GD51	1	1 unit	101	0.090

### Sizes S0 ... S12



3RT19 26-2....

#### With ON-delay

3RT10, 3RT13, 3RT14, 3RT15	1 NO + 1 NC	24 AC/DC <sup>5)</sup>	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 <sup>5)</sup>		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 <sup>5)</sup>		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<sup>4)</sup>

3RT10, 3RT13, 3RT14, 3RT15	1 NO + 1 NC	24 AC/DC <sup>5)</sup>	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 <sup>5)</sup>		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 <sup>5)</sup>		0.05 ... 1	D	3RT19 26-2FL11	1	1 unit	101	0.086
			0.5 ... 10	A	3RT19 26-2FL21	1	1 unit	101	0.084
			5 ... 100	A	3RT19 26-2FL31	1	1 unit	101	0.086

#### Wye-delta function

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

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

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

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

# Accessories and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays

### Accessories for 3RT, 3RH contactors and contactor relays

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

#### Solid-state time-delay blocks with semiconductor output

##### Size S00



3RT19 16-2C...



3RT19 16-2D...

For mounting onto the front of contactors									
• ON-delay (varistor integrated)									
3RT1. 1, 3RH11 <sup>1)</sup> 3RH14	24 ... 66 AC/DC	0.05 ... 1	B	3RT19 16-2CG11		1	1 unit	101	0.051
		0.5 ... 10	B	3RT19 16-2CG21		1	1 unit	101	0.051
		5 ... 100	B	3RT19 16-2CG31		1	1 unit	101	0.054
3RT19 16-2C...	90 ... 240 AC/DC	0.05 ... 1	D	3RT19 16-2CH11		1	1 unit	101	0.052
		0.5 ... 10	B	3RT19 16-2CH21		1	1 unit	101	0.052
		5 ... 100	B	3RT19 16-2CH31		1	1 unit	101	0.051
• OFF-delay with auxiliary voltage (varistor integrated)									
3RT1. 1, 3RH11 <sup>1)</sup> 3RH14	24 ... 66 AC/DC	0.05 ... 1	C	3RT19 16-2DG11		1	1 unit	101	0.057
		0.5 ... 10	B	3RT19 16-2DG21		1	1 unit	101	0.057
		5 ... 100	B	3RT19 16-2DG31		1	1 unit	101	0.057
3RT19 16-2D...	90 ... 240 AC/DC	0.05 ... 1	D	3RT19 16-2DH11		1	1 unit	101	0.053
		0.5 ... 10	B	3RT19 16-2DH21		1	1 unit	101	0.060
		5 ... 100	B	3RT19 16-2DH31		1	1 unit	101	0.058

##### Sizes S0 ... S3



3RT19 26-2C...



3RT19 26-2D...

For mounting onto coil terminals on top of the contactors									
• ON-delay (varistor integrated)									
3RT10 2, 3RT10 3, 3RT10 4, 3RT13 <sup>2)</sup> 3RT15	24 ... 66 AC/DC	0.05 ... 1	D	3RT19 26-2CG11		1	1 unit	101	0.048
		0.5 ... 10	B	3RT19 26-2CG21		1	1 unit	101	0.049
		5 ... 100	D	3RT19 26-2CG31		1	1 unit	101	0.048
3RT19 26-2C...	90 ... 240 AC/DC	0.05 ... 1	B	3RT19 26-2CH11		1	1 unit	101	0.048
		0.5 ... 10	B	3RT19 26-2CH21		1	1 unit	101	0.047
		5 ... 100	B	3RT19 26-2CH31		1	1 unit	101	0.048
• OFF-delay with auxiliary voltage (varistor integrated)									
3RT10 2, 3RT10 3, 3RT10 4, 3RT13 <sup>2)</sup> 3RT15	24 ... 66 AC/DC	0.05 ... 1	D	3RT19 26-2DG11		1	1 unit	101	0.050
		0.5 ... 10	D	3RT19 26-2DG21		1	1 unit	101	0.051
		5 ... 100	D	3RT19 26-2DG31		1	1 unit	101	0.051
3RT19 26-2D...	90 ... 240 AC/DC	0.05 ... 1	C	3RT19 26-2DH11		1	1 unit	101	0.050
		0.5 ... 10	D	3RT19 26-2DH21		1	1 unit	101	0.050
		5 ... 100	C	3RT19 26-2DH31		1	1 unit	101	0.050

#### OFF-delay devices



3RT19 16-2B.01

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

#### Pneumatic delay blocks, terminal designation according to EN 50005



3RT19 26-2P...

For mounting onto the front of size S0 <sup>3)</sup> contactors									
Auxiliary contacts 1 NO and 1 NC									
• ON-delay									
3RT1. 2	24 AC/DC	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									
3RT19 26-2P...	24 AC/DC	0.1 ... 30	C	3RT19 26-2PR01		1	1 unit	101	0.078
		1 ... 60	C	3RT19 26-2PR11		1	1 unit	101	0.078

#### Mechanical latching blocks

##### Sizes S0 and S2



3RT19 26-3A.31

For mounting on 1 contactor, contactor remains in the energized state even after a voltage failure									
3RT1. 2, 3RT1. 3	24 AC/DC		A	3RT19 26-3AB31		1	1 unit	101	0.122
	110 AC/DC		B	3RT19 26-3AF31		1	1 unit	101	0.130
	230 AC/DC		B	3RT19 26-3AP31		1	1 unit	101	0.125

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

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



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

## Accessories for 3RT, 3RH contactors and contactor relays

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

### Surge suppressors without LED (also for Cage Clamp terminals)

#### Size S00



3RT19 16-1DG00

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

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

#### Size S0



3RT19 26-1B0.00

#### For fitting onto the coil terminals at top or bottom

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

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

# Accessories and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays



### Accessories for 3RT, 3RH contactors and contactor relays

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

#### Surge suppressors without LED (also for Cage Clamp terminals)


##### Sizes S2 and S3

For fitting onto the coil terminals at top or bottom

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

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

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

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


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

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

#### Surge suppressors with LED (also for Cage Clamp terminals)

##### Size S00

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

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

3RT19 16-1L.00




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

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

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

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

## Accessories for 3RT, 3RH contactors and contactor relays

For contactors	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg				
<b>EMC suppression modules; 3-phase ≤ 5.5 kW</b>												
<i>Size S00 (for contactors with AC or DC operation)<sup>1)</sup></i>												
	3RT10 1	<b>RC elements</b> (3 x 220 Ω/0.22 μF) up to 400 V up to 575 V up to 690 V	▶	<b>3RT19 16-1PA1</b> <b>3RT19 16-1PA2</b> <b>3RT19 16-1PA3</b>	1	1 unit	101	0.078				
			A						1	1 unit	101	0.078
			C						1	1 unit	101	0.081
	3RT10 1	<b>Varistors</b> up to 400 V up to 575 V up to 690 V	A	<b>3RT19 16-1PB1</b>	1	1 unit	101	0.084				
			B	<b>3RT19 16-1PB2</b>	1	1 unit	101	0.090				
			D	<b>3RT19 16-1PB3</b>	1	1 unit	101	0.087				
<b>Main conducting path surge suppression modules for 3RT12 vacuum contactors</b>												
<i>Size S10 and S12</i>												
3RT12	Rated operating voltage $U_e = 690$ V AC	C	<b>3RT19 66-1PV3</b>	1	1 unit	101	0.380					
		C	<b>3RT19 66-1PV4</b>	1	1 unit	101	0.775					
		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.										
<b>Additional load modules</b>												
<i>Size S00 (also for Cage Clamp terminal)</i>												
	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 $U_s$	▶	<b>3RT19 16-1GA00</b>	1	1 unit	101	0.008				
			For plugging onto the front side of the contactors with and without auxiliary switch blocks <sup>2)</sup>									
<b>Control kits</b>												
	3RT1. 1, 3RH1.	For manual operation of the contactor contacts for start-up and service <sup>3)</sup>	A	<b>3RK1 903-0CA00</b>	1	1 unit	121	0.015				

1) See also description on page 3/108.

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

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

# Accessories and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays

### Accessories for 3RT, 3RH contactors and contactor relays

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

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  $I_{\theta}$ : 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<sup>1)</sup>



3RT19 26-1QT00 mounted to contactor

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

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

#### Auxiliary terminals, 3-pole

##### Size S3



3RT19 46-4F

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

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

#### Solder pin adapters for contactors

##### Size S00



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

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

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

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

## Accessories for 3RT, 3RH contactors and contactor relays

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

#### Size S00



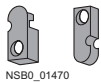
3RT1, 1, 3RH11

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

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

### Screw adapters with screw or Cage Clamp terminal

#### Size S0



NSB0\_01470

3RT1.2.

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

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



3RT19 16-4BB31

3RT19 16-4BB41

3RT19 36-4BB31

3RT19 56-4BA31

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

mm<sup>2</sup>

### Links for paralleling

#### 3-pole, with connection terminal<sup>1)2)</sup>

<b>S00</b>	3RT10 1	25	▶	<b>3RT19 16-4BB31</b>		1	1 unit	101	0.015
<b>S0</b>	3RT10 2.	35, stranded	▶	<b>3RT19 26-4BB31</b>		1	1 unit	101	0.018
<b>S2</b>	3RT10 3.	95	▶	<b>3RT19 36-4BB31</b>		1	1 unit	101	0.107
<b>3-pole, with through hole (star jumpers)<sup>1)2)</sup></b>									
<b>S3</b>	3RT10 4. 3RT14 4.	185	▶	<b>3RT19 46-4BB31</b>		1	1 unit	101	0.197
<b>S6</b>	3RT1. 5	--	▶	<b>3RT19 56-4BA31</b>		1	1 unit	101	0.161
<b>S10/S12</b>	3RT1. 6, 3RT1. 7	--	▶	<b>3RT19 66-4BA31</b>		1	1 unit	101	0.533

#### 4-pole, with connection terminal<sup>1)2)</sup>

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

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

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




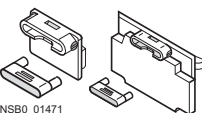
Sizes S6 to S12: The 3RT19 56-4EA1 (for S6) or 3RT19 66-4EA1 (for S10 and S12) cover can be used for touch protection.

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

# Accessories and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays

### Accessories for 3RT, 3RH contactors and contactor relays

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

1) For connectable cross-sections, see Technical specifications of contactors in Catalog LV 1 T.

2) As standard for 3RT10 54-1 contactor (55 kW).

3) Also fits on contactors S6 ... S12 with box terminals.



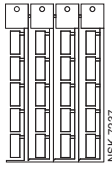
4) Observe the note in Catalog LV 1 T, Technical specifications, conductor cross-sections.

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

6) Exception: Contactors and contactor relays auxiliary switch block mounted onto the front.

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

## Accessories for 3RT, 3RH contactors and contactor relays



Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
<b>Insulation stop for securely holding back the conductor insulation on conductors up to 1 mm<sup>2</sup> for contactors with Cage Clamp terminals</b>							
							
3RT19 16-4JA02	B	<b>3RT19 16-4JA02</b>		100	20 units	101	0.100
Insulation stop strip can be inserted in cable entry of Cage Clamp (2 strips per contactor required, can be removed in pairs) Fits into cable entries of all SIRIUS devices with Cage Clamp terminals of cable cross-section up to 2.5 mm <sup>2</sup> .							
<b>Tools for opening Cage Clamp connection</b>							
							
8WA2 880	A	<b>8WA2 880</b>		1	1 unit	041	0.012
	A	<b>8WA2 803</b>		1	1 unit	041	0.024
<b>Blank labeling plates</b>							
							
3RT19 00-1SB10	D	<b>3RT19 00-1SB10</b>		100	816 units	101	0.239
	C	<b>3RT19 00-1SB20</b>		100	340 units	101	0.220
Device labeling plates for "SIRIUS"							
<ul style="list-style-type: none"> <li>• 10 mm × 7 mm, pastel turquoise</li> <li>• 20 mm × 7 mm, pastel turquoise</li> </ul>							
Labels for sticking for "SIRIUS"							
	D	<b>3RT19 00-1SB60</b>		100	3060 units	101	0.153
	C	<b>3RT19 00-1SD60</b>		100	3060 units	101	0.120
Computer labeling system							
For individual inscription of device identification labeling plates							
Obtainable from: <b>murrplastik Systemtechnik GmbH</b>							

# Accessories and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays

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

### Selection and ordering data

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



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

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



3RT19 24-5A.02




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

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

# Accessories and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays



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

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

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

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

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

For contactor		Rated control supply voltage $U_s$				DT	Cage Clamp terminals		PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.		
Size	Type	AC		DC			Order No.	Price per PU			kg			
		50 Hz V	50/60 Hz V	60 Hz V	V									
<b>Magnetic coils - AC operation</b>														
 3RT19 45-5A.02	<b>S3</b>	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			
<b>Magnetic coils - DC operation</b>														
 3RT19 44-5B0.42	<b>S2</b>	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		
		<b>S3</b>	3RT10 4., 3RT13 4., 3RT14 4., 3RT15 4.	--	--	--	24	B	3RT19 44-5BB42		1	1 unit	101	1.034
				--	--	--	42	B	3RT19 44-5BD42		1	1 unit	101	0.805
	--			--	--	48	B	3RT19 44-5BW42		1	1 unit	101	1.009	
	--			--	--	60	B	3RT19 44-5BE42		1	1 unit	101	1.016	
	--			--	--	110	B	3RT19 44-5BF42		1	1 unit	101	0.970	
	--	--	--	125	B	3RT19 44-5BG42		1	1 unit	101	0.805			
	--	--	--	220	B	3RT19 44-5BM42		1	1 unit	101	0.959			
--	--	--	230	B	3RT19 44-5BP42		1	1 unit	101	0.958				

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

# Accessories and Spare Parts


## For 3RT, 3RH Contactors and Contactor Relays

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

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

#### Withdrawable coils

#### Conventional operating mechanism

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

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

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

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

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

# Accessories and Spare Parts

## For 3RT, 3RH Contactors and Contactor Relays

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

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

#### Withdrawable coils



3RT19 55-5N...

#### Solid-state operating mechanism

##### For 24 V DC PLC output

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

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

##### With AS-Interface and remaining lifetime indication (RLT)

(Withdrawable coil with lateral solid-state module)

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

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

#### Withdrawable coils

#### Solid-state operating mechanism

##### For 24 V DC PLC output

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

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

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




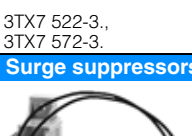


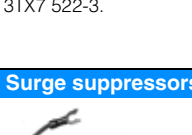

For contactor		Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx. kg
Size	Type								
<b>Arc chutes</b>									
<b>S2</b>	3RT10 3 .	Arc chute, 3-pole	C	<b>3RT19 36-7A</b>		1	1 unit	101	0.112
<b>S3</b>	3RT10 4., 3RT14 46		C	<b>3RT19 46-7A</b>		1	1 unit	101	0.299
<b>S6</b>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

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

# Accessories and Spare Parts For 3T Contactors and Contactor Relays

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

### Selection and ordering data




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

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



# Accessories and Spare Parts For 3T Contactors and Contactor Relays

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

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

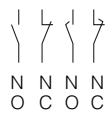
1) The link for paralleling can be reduced by one pole.

# Accessories and Spare Parts For 3T Contactors and Contactor Relays

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

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

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

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

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



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)

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

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

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






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

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

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

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

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

# Accessories and Spare Parts For 3T Contactors and Contactor Relays

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

### Accessories

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

### Links for paralleling (star jumpers)

#### 3-pole, without connection terminal<sup>1)2)</sup>

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

#### 3-pole, with connection terminal<sup>1)3)</sup>

3TG10	40	25	▶	<b>3RT19 16-4BB31</b>		1	1 unit	101	0.015
-------	----	----	---	-----------------------	--	---	--------	-----	-------

#### 4-pole, with connection terminal<sup>1)4)</sup>

3TG10	50	25	C	<b>3RT19 16-4BB41</b>		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.

# Accessories and Spare Parts For 3T Contactors and Contactor Relays

## Accessories for 3TH contactor relays

### Selection and ordering data

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

#### Surge suppressors<sup>1)</sup> for 3TH4 contactor relays



3TX7 402-3.

<b>Noise suppression diodes</b> With line spacer, for mounting onto the coil terminal	--	24 ... 250	A	<b>3TX7 402-3A</b>			1	1 unit	101	0.147
<b>Diode assemblies</b> (diode and Zener diode) with line spacer, DC operation, for mounting onto the coil terminal	--	24 ... 250	A	<b>3TX7 402-3D</b>			1	1 unit	101	0.015
<b>Varistors<sup>2)</sup></b> With line spacer, for mounting onto the coil terminal	24 ... 48	24 ... 70	A	<b>3TX7 402-3G</b>			1	1 unit	101	0.015
	48 ... 127	70 ... 150	A	<b>3TX7 402-3H</b>			1	1 unit	101	0.015
	127 ... 240	150 ... 250	A	<b>3TX7 402-3J</b>			1	1 unit	101	0.015
	240 ... 400	--	C	<b>3TX7 402-3K</b>			1	1 unit	101	0.024
<b>RC elements</b> With line spacer, for mounting onto the coil terminal	400 ... 600	--	C	<b>3TX7 402-3L</b>			1	1 unit	101	0.024
	24 ... 48	24 ... 70	A	<b>3TX7 402-3R</b>			1	1 unit	101	0.025
	48 ... 127	70 ... 150	A	<b>3TX7 402-3S</b>			1	1 unit	101	0.025
	127 ... 240	150 ... 250	A	<b>3TX7 402-3T</b>			1	1 unit	101	0.023
<b>Covers</b> For switch position indicator	240 ... 400	--	C	<b>3TX7 402-3U</b>			1	1 unit	101	0.024
	400 ... 600	--	C	<b>3TX7 402-3V</b>			1	1 unit	101	0.024
<b>Covers</b> For switch position indicator	--	--	B	<b>3TX4 210-0P</b>			1	1 unit	101	0.002

#### Coupling links for control by PLC for 3TH4 contactor relays



3TX4 090  
mounted to contactor

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

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

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

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

#### ON-delay devices



3TX4 180-0A

3TH42/ 3TH43	<b>NTC thermistors</b> Time tolerance + 100 %, -50 %	220 ... 230	0.1	B	<b>3TX4 180-0A</b>			1	1 unit	101	0.013
-----------------	--	-------------	-----	---	--------------------	--	--	---	--------	-----	-------

# Accessories and Spare Parts For 3T Contactors and Contactor Relays

## Accessories for 3TH contactor relays

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

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

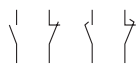


3TX4 701-0AN1

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

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

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



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



3TX4 440-0A

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

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

With 6 and 8 contacts according to EN 50005

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

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

### OFF-delay devices (with screw terminals)







3TX4 490-1A

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

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

# Accessories and Spare Parts For 3T Contactors and Contactor Relays

## Accessories for 3TH contactor relays





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

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

# Accessories and Spare Parts For 3T Contactors and Contactor Relays

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

### Selection and ordering data

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




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

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



# Accessories and Spare Parts For 3T Contactors and Contactor Relays

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

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

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

# Accessories and Spare Parts For 3T Contactors and Contactor Relays

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

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

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

### Auxiliary switch blocks

#### With screw terminals



3TY7 561-1.

14	3TF68 and 3TF69	1 1 --	1st auxiliary switch block, left or right Replacement for: 3TY7 561-1A/-1B.	B	<b>3TY7 561-1AA00</b>	1	1 unit	101	0.048
		1 -- 1	Auxiliary switch block, left or right	B	<b>3TY7 561-1EA00</b>	1	1 unit	101	0.048
		1 1 --	2nd auxiliary switch block, left or right Replacement for: 3TY7 561-1K/-1L.	B	<b>3TY7 561-1KA00</b>	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	<b>3TY7 681-1G</b>	1	1 unit	101	0.050
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For contactor	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.
Size	Type							kg

### Magnetic coils

#### AC operation



3TY7.

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

#### DC operation - DC economy circuit

14	3TF68	Reversing contactors are required for size 14 contactors: Contractor type 3TF68 and 3TF69 Reversing contactor 3TC44 (70 mm wide, 85 mm high) The coils are supplied without reversing contactor.	C	<b>3TY7 683-0D..</b>		1	1 unit	101	0.560
	3TF69		C	<b>3TY7 693-0D..</b>		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	<b>3TY7 680-0B</b>		1	1 set	101	3.490
	3TF69		B	<b>3TY7 690-0B</b>		1	1 set	101	3.638

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

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

# Accessories and Spare Parts For 3T Contactors and Contactor Relays

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

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

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

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

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

# Accessories and Spare Parts For 3T Contactors and Contactor Relays

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

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

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

### AC operation · Coils for 50 Hz

<b>24 V AC</b>	<b>B0</b>	<b>B0</b>	--	--	<b>B0<sup>3)</sup></b>	--
<b>110 V AC</b>	<b>F0</b>	<b>F0</b>	<b>F0</b>	--	<b>F0<sup>3)</sup></b>	<b>F0<sup>3)</sup></b>
<b>230/220 V AC</b>	<b>P0<sup>1)</sup></b>	<b>P0<sup>1)</sup></b>	<b>P0<sup>1)</sup></b>	--	<b>P0<sup>3)</sup></b>	<b>P0<sup>3)</sup></b>
<b>240 V AC</b>	<b>U0</b>	<b>U0</b>	--	--	<b>U0<sup>3)</sup></b>	<b>U0<sup>3)</sup></b>

### AC operation · Coils for 50/60 Hz

<b>24 V AC</b>	<b>C2</b>	--	--	--	--	--
<b>110 V AC</b>	<b>G2</b>	--	--	--	--	--
<b>120 V AC</b>	<b>K2</b>	--	--	--	--	--
<b>220 V AC</b>	<b>N2</b>	--	--	--	--	--
<b>230 V AC</b>	<b>L2</b>	--	--	--	--	--
<b>110 V ... 132 V AC</b>	--	--	--	<b>F7</b>	--	--
<b>200 V ... 240 V AC</b>	--	--	--	<b>M7</b>	--	--
<b>230 V ... 277 V AC</b>	--	--	--	<b>P7<sup>2)</sup></b>	--	--
<b>380 V ... 460 V AC</b>	--	--	--	<b>Q7</b>	--	--
<b>500 V ... 600 V AC</b>	--	--	--	<b>S7</b>	--	--

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

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

### DC operation

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

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

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