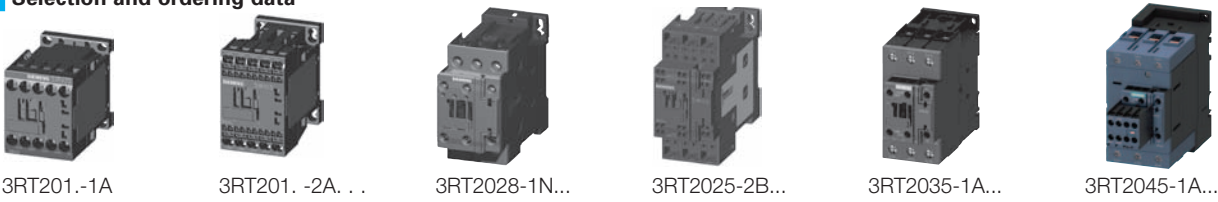


# Contactors for Switching Motors

## 3RT contactors, 3-pole – Size S00 to S3

CONTACTORS AND ASSEMBLIES 2

### Selection and ordering data



Frame Size	Amp Ratings		Single-phase HP ratings			Three-phase HP ratings				Auxiliary contacts		Screw Terminals	Spring-Loaded Terminals	Weight approx. kg
	AC3	AC1	115V	208V	230V	208V	230V	460V	575V	NO	NC	Order No.	Order No.	
<b>3RT 3-pole contactors</b>														
S00	6	18	0.25	0.5	0.75	1.5	2	3	5	1	0	3RT2015-1□●●1	3RT2015-2□●●1	0.24/0.29
	9	22	0.33	1	1	2	3	5	7.5	1	0	3RT2016-1□●●1	3RT2016-2□●●1	
	12	22	0.5	1.5	2	3	3	7.5	10	1	0	3RT2017-1□●●1	3RT2017-2□●●1	
	16	22	1	2	2	3	5	10	10	1	0	3RT2018-1□●●1	3RT2018-2□●●1	
S0	9	40	1	1	1	2	3	5	7.5	1	1	3RT2023-1□●●0	3RT2023-2□●●0	0.42/0.60
	12	40	1	2	2	3	3	7.5	10	1	1	3RT2024-1□●●0	3RT2024-2□●●0	
	17	40	1	2	3	5	5	10	15	1	1	3RT2025-1□●●0	3RT2025-2□●●0	
	25	40	2	3	3	7.5	7.5	15	20	1	1	3RT2026-1□●●0	3RT2026-2□●●0	
	32	50	2	5	5	10	10	20	25	1	1	3RT2027-1□●●0	3RT2027-2□●●0	
S2	40	60	3	5	7.5	10	15	30	40	1	1	3RT2035-1□●●0	3RT2035-3□●●0	0.99/1.121
	50	70	3	7.5	10	15	15	40	50	1	1	3RT2036-1□●●0	3RT2036-3□●●0	
	65	80	5	10	10	20	20	50	50	1	1	3RT2037-1□●●0	3RT2037-3□●●0	
	80 <sup>2)</sup>	90	5	10	15	20	25	50	60	1	1	3RT2038-1□●●0	3RT2038-3□●●0	
S3	80	125	7.5	10	15	25	30	60	60	1	1	3RT2045-1□●●0	3RT2045-3□●●0	1.8/2.8
	95	130	10	10	20	30	30	75	75	1	1	3RT2046-1□●●0	3RT2046-3□●●0	
	110	130	10	10	20	30	40	75	100	1	1	3RT2047-1□●●0	3RT2047-3□●●0	
Size S2 & S3 only: Replace "B" with "K" for 24VDC coil only Size S0-S3 only: UC Electronic with integrated varistor												<input type="checkbox"/> AC Coil = A <input type="checkbox"/> DC Coil = B <input type="checkbox"/> UC Coil = N	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> N	

NEMA Size	Amp Ratings	Single-phase HP ratings		Three-phase HP ratings				Auxiliary contacts		Screw Terminals with AC coil	Screw Terminals with 24 VDC coil	Weight approx. kg
		115V	230V	208V	230V	460V	575V	NO	NC	Order No.	Order No.	
<b>NEMA Labeled Contactors</b>												
0	18	1	2	3	3	5	5	1	0	3RT2018-1A●●1-0UA0	3RT2018-1BB41-0UA0	0.28
1	27	2	3	7.5	7.5	10	10	1	1	3RT2027-1A●●0-0UA0	3RT2027-1BB40-0UA0	0.42
2	45	3	7.5	10	15	25	25	1	1	3RT2036-1A●●0-0UA0	3RT2036-1NB30-0UA0	0.986/1.121
3	90	7.5	15	25	30	50	50	1	1	3RT2046-1A●●0-0UA0	3RT2046-1NB40-0UA0	1.8 / 2.8

1) All terminals are spring loaded on frame sizes S00 & S0.  
 Only the coil terminals are spring loaded on frame sizes S2 & S3.  
 2) Max UL FLA = 65A at 460V

Note: Ring lug terminals are also available in size S00 & S0 contactors, except contactors with communication interface or UC coil. Change the 8th digit of the order number to a "4", e. g. 3RT2015-4AK61.

For further coil voltages, see page 2/49.  
 For auxiliaries and accessories, see page 2/66-2/83.  
 For spare parts, see page 2/94-2/99.  
 For technical data, see page 2/121-2/142.  
 For description, see page 2/104-2/105.  
 For int. circuit diagrams, see page 2/190-2/197.  
 For dimension drawings, see page 2/209-2/212.

### AC Coil Selection for 3RT201 through 3RT204

●●Coil Code	C2 <sup>2)</sup>	H2 <sup>3)</sup>	K6	P6	U6	V6	T6
60 Hz	24 V	48 V	120 V	240 V	277 V	480 V	600 V
50 Hz	24 V	48 V	110 V	220 V	—	—	—

<sup>2)</sup> Use Code B0 for 3RT201, S00  
<sup>3)</sup> Use Code H0 for 3RT201, S00

### DC Coil Selection for 3RT201 & 3RT202 (for 3RT203 & 3RT204 see UC)

●●Coil Code	A4 <sup>4)</sup>	B4	W4	E4	F4	G4	M4
DC	12 V	24 V	48 V	60 V	110 V	125 V	220 V

<sup>4)</sup> 3RT201 and 3RT202 only

### UC Coil Selection for 3RT202

●●Coil Code	B3	F3	P3 <sup>4)</sup>
UC	21-28V	95-130V	200-280V

### UC Coil Selection for 3RT203 & 3RT204

●●	B3	F3	P3 <sup>5)</sup>
UC	20-33V	83-155V	175-280V

<sup>5)</sup> at upper limit = 1.1 x U<sub>S</sub>

# Contactors for Switching Motors

3RT contactors, 3-pole – Size S6-S12 and NEMA size 4-6

## Selection and ordering data

- \* AC/DC Coils with built in surge suppressor
- \* Coil Types (40Hz to 60Hz, DC):
- \* Conventional Coil
- \* Solid-state operated coil with wider range and 24 V DC PLC input
- \* Solid-state operated coil with Remaining Lifetime Indication (RLT)
- \* Box terminals ordered separately



3RT1054-6A . . 6

3RT1065-6P . . 5

2 CONTACTORS AND ASSEMBLIES

Frame Size	Amp Ratings		Single-phase HP ratings		Three-phase HP ratings				Auxiliary contacts		Screw Terminals on coil and aux.	Spring-type terminals on coil and aux. contacts	Weight approx. kg
	AC3	AC1	115V	230V	200V	230V	460V	575V	NO	NC	Order No.	Order No.	
<b>3RT 3-pole Contactors</b>													
S6	115	160	—	25	40	50	100	125	2	2	3RT1054-6□●●6	3RT1054-2□●●6	3.5
	150	185	—	30	50	60	125	150	2	2	3RT1055-6□●●6	3RT1055-2□●●6	
	185	215	—	30	60	75	150	200	2	2	3RT1056-6□●●6	3RT1056-2□●●6	
S10	225	275	—	—	60	75	150	200	2	2	3RT1064-6□●●6	3RT1064-2□●●6	6.7
	265	330	—	—	75	100	200	250	2	2	3RT1065-6□●●6	3RT1065-2□●●6	
	300	330	—	—	100	125	250	300	2	2	3RT1066-6□●●6	3RT1066-2□●●6	
S12	400	430	—	—	125	150	300	400	2	2	3RT1075-6□●●6	3RT1075-2□●●6	10.5
	500	610	—	—	150	200	400	500	2	2	3RT1076-6□●●6	3RT1076-2□●●6	
UC Conventional Coil <span style="float: right;">□</span> Solid State Operated Coil = <span style="float: right;">A</span> Solid State Operated Coil with RLT = <span style="float: right;">N</span> <span style="float: right;">P●●5</span>													

NEMA Size	Amp Ratings	Single-phase HP ratings		Three-phase HP ratings				Auxiliary contacts		Screw Terminals on coil and aux.	Spring-type terminals on coil and aux. contacts	Weight approx. kg
		115V	230V	208V	230V	460V	575V	NO	NC	Order No.	Order No.	
<b>NEMA Labeled Contactors</b>												
4	135	—	30	40	50	100	100	2	2	3RT1056-6A●●6-0UA0	—	3.5
5	300	—	—	100	125	250	300	2	2	3RT1066-6A●●6-0UA0	—	6.7
6	400	—	—	150	200	400	500	2	2	3RT1076-6A●●6-0UA0	—	10.5

All coil voltages are in the adjacent table.  
 For auxiliaries and accessories, see page 2/66-2/83.  
 For spare parts, see page 2/94-2/99.  
 For technical data, see page 2/143-2/151.  
 For description, see page 2/106-2/107.  
 For int. circuit diagrams, see page 2/196-2/198.  
 For dimension drawings, see page 2/213-2/214.

### Sizes S6 to S12 Coil Codes - UC operation (AC 50 to 60 Hz and DC)

UC Conventional Coil		Solid-State Coil		
Rated control supply voltage Us Us min ... Us max <sup>1)</sup>	Coil Codes	Rated control supply voltage Us Us min ... Us max <sup>1)</sup>	Coil Codes	Coil Codes
3RT1. 5.-.A	●●	3RT1. 5.-.N	●●	3RT1. 5.-.P
3RT1. 6.-.A	B3	3RT1. 6.-.N	B3	3RT1. 6.-.P
3RT1. 7.-.A	D3	3RT1. 7.-.N	F3	3RT1. 7.-.P
23 ... 26 V AC/DC	F3	21 ... 27.3 V AC/DC	P3	—
42 ... 48 V AC/DC	M3	96 ... 127 V AC/DC	P3	F3
110 ... 127 V AC/DC	P3	200 ... 277 V AC/DC	P3	P3
200 ... 220 V AC/DC	M3			
220 ... 240 V AC/DC	P3			
240 ... 277 V AC/DC	U3			
380 ... 420 V AC/DC	V3			
440 ... 480 V AC/DC	R3			
500 ... 550 V AC/DC	S3			
575 ... 600 V AC/DC	T3			

<sup>1)</sup> Operating range:  
0.8 x Us min to 1.1 x Us max.

# Contactors for Switching Motors

## 3RT12 vacuum contactors, 3-pole

CONTACTORS AND ASSEMBLIES 2

### Selection and ordering data

- AC/DC operation (40 Hz ... 60 Hz, DC)
- Withdrawable coils
- Integrated coil circuit (varistor)
- Auxiliary and control conductors: screw connections
- Main conductor: bar connections

Size	Horsepower ratings and utilization categories					Auxiliary contacts, lateral			Rated control supply voltage $U_s$	Order No.	Weight approx.	
	AC-3 Maximum inductive current	Ratings of three-phase motors				AC-1 Maximum resistive current	NO	NC				AC/DC V
	Amps	HP	HP	HP	HP	Amps				kg		
<b>Conventional operating mechanism</b>												
3RT12 6.	<b>S10</b>	225	60	75	<b>150</b>	200	330	2	2	110 ... 127 220 ... 240	<b>3RT12 64-6AF36</b> <b>3RT12 64-6AP36</b>	6.4
		265	75	100	<b>200</b>	250	330	2	2	110 ... 127 220 ... 240	<b>3RT12 65-6AF36</b> <b>3RT12 65-6AP36</b>	
		300	100	125	<b>250</b>	300	330	2	2	110 ... 127 220 ... 240	<b>3RT12 66-6AF36</b> <b>3RT12 66-6AP36</b>	
3RT12 7.	<b>S12</b>	400	125	150	<b>300</b>	400	610	2	2	110 ... 127 220 ... 240	<b>3RT12 75-6AF36</b> <b>3RT12 75-6AP36</b>	9.6
		500	150	200	<b>400</b>	500	610	2	2	110 ... 127 220 ... 240	<b>3RT12 76-6AF36</b> <b>3RT12 76-6AP36</b>	
<b>Solid-state operating mechanism - for DC 24 V PLC output</b>												
3RT12 6.	<b>S10</b>	225	60	75	<b>150</b>	200	330	2	2	96 ... 127 200 ... 277	<b>3RT12 64-6NF36</b> <b>3RT12 64-6NP36</b>	6.4
		265	75	100	<b>200</b>	250	330	2	2	96 ... 127 200 ... 277	<b>3RT12 65-6NF36</b> <b>3RT12 65-6NP36</b>	
		300	100	125	<b>250</b>	300	330	2	2	96 ... 127 200 ... 277	<b>3RT12 66-6NF36</b> <b>3RT12 66-6NP36</b>	
3RT12 7.	<b>S12</b>	400	125	150	<b>300</b>	400	610	2	2	96 ... 127 200 ... 277	<b>3RT12 75-6NF36</b> <b>3RT12 75-6NP36</b>	9.6
		500	150	200	<b>400</b>	500	610	2	2	96 ... 127 200 ... 277	<b>3RT12 76-6NF36</b> <b>3RT12 76-6NP36</b>	



Universal Coil Selection for 3RT126 through 3RT127: Conventional Operation										
Coil Code	B3	D3	F3	M3	P3	U3	V3	R3	S3	T3
Volts AC/DC 40 - 60 Hz, DC	23 .. 26 V	42 .. 48 V	110 .. 127 V	200 .. 220 V	220 .. 240 V	240 .. 277 V	380 .. 420 V	440 .. 480 V	500 .. 550 V	575 .. 600 V

Solid State Selection for 3RT126 through 3RT127: Solid-State			
Coil Code	B3	F3	P3
Volts AC/DC 40 - 60 Hz, DC	21 .. 27.3 V	96 .. 127 V	200 .. 277 V

For further vacuum contactors, 500Hp and 700Hp (3TF68/69), see page 2/53.  
 For auxiliaries and accessories, see page 2/68.  
 For spare parts, see page 2/98-2/99.  
 For technical data, see page 2/152-2/157.  
 For int. circuit diagrams, see page 2/196  
 For dimension drawings, see page 2/215.