

Contactors and Contactor Assemblies

Contactors for special application

contents

Contactors for special applications



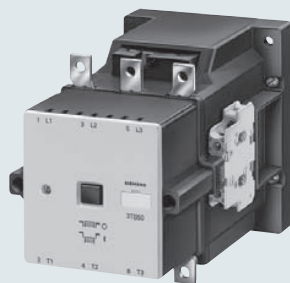
3TF68 and 3TF69 vacuum contactors, 500 to 700 HP; contactor assemblies

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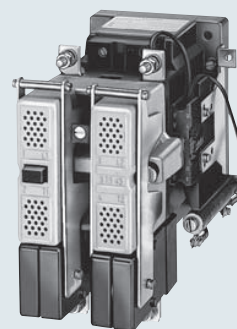


3TB50 to 3TB56 contactors with DC solenoid system, 100 to 300 HP

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3TC Contactors

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3RT1 SIRIUS Nomenclature

3RT1	0	3	5	1	A	B0	1
SIRIUS Contactor	Application 0 = 3 pole Standard 2 = 3 pole Vacuum 3 = 4 pole NO 4 = 3 pole resistive load 5 = 4 pole 2 NO + 2 NC 6 = 3 pole Capacitive	Frame 5 = S6 6 = S10 7 = S12	Current Designation Choices = 4,5,6	Terminal 2 = Spring Loaded Coil only 6 = Busbar Terminal	Coil Type A = AC/DC (S6-S12) N = UC Solid state (S6-S12) P = UC Solid state with RLT (S6-S12)	Coil Voltage See Coil Selection Chart page 2/49	Aux Contacts A) 0 = None 4 = 2NO + 2NC (S6-S12) 5 = 1NO + 1 NC (S6-S12) 6 = 2 NO + 2 NC (S6-S12) A) per EN50012

3RT2 SIRIUS Innovations Nomenclature

3RT2	0	1	5	1	A	B0	1
SIRIUS Innovations Contactor	Application 0 = 3 pole Standard 3 = 4 pole NO 5 = 4 pole 2 NO + 2 NC 6 = 3-pole Capacitive	Frame 1 = S00 2 = S0 3 = S2 4 = S3	Current 3,4,5,6,7,8	Terminal 1 = Screw 2 = Spring Loaded 3 = Spring Loaded Coil only 4 = Ring Lug	Coil Type A = AC (S0-S3) B = DC N = UC Electronic	Coil Voltage See Coil Selection Chart page 2/49	Aux Contacts A) 0 = 1NO + 1NC (S0-S3) 1 = 1 NO (S00) 2 = 1 NC (S00) 4 = 2NO + 2NC (S00-S3) A) per EN50012

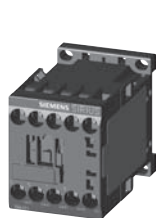
Note: MSPs and Contactors of the same frame size are made to easily fit together with the use of a link module or can be purchased pre-assembled as 3RA starter assemblies. See section 4.

Note: Contactors and Overloads of the frame size S00 - S3 are made to easily fit together without the use of accessories.

Note: This is only a guide to decode the model number. All possible combinations of these are not available.

Contactors and Contactor Assemblies

Overview



Type		S00 3RT20 1				S0 3RT20 2						S2 3RT20 3			
3RT20 contactors															
Type		3RT2015	3RT2016	3RT2017	3RT2018	3RT2023	3RT2024	3RT2025	3RT2026	3RT2027	3RT2028	3RT2035	3RT2036	3RT2037	3RT2038
AC/DC operation		(p. 2/8)				(p. 2/8)						(p. 2/8)			
Type															
AC/DC operation															
Maximum 3-phase horsepower ratings at 460V (UL and CSA listed values)															
200 V	HP	1.5	2	3	3	2	3	5	7.5	10	10	10	15	20	20
230 V	HP	2	3	3	5	3	3	5	7.5	10	10	15	15	20	25
460 V	HP	3	5	7.5	10	5	7.5	10	15	20	25	30	40	50	50
575 V	HP	5	7.5	10	10	7.5	10	15	20	25	25	40	50	50	60
AC-3															
I _e /AC-3/400V	A	7	9	12	16	9	12	17	25	32	38	40	50	65	80
230 V	kW	1.5	2.2	3	4	2.2	3	4	5.5	7.5	11	11	15	18.5	22
400 V	kW	3	4	5.5	7.5	4	5.5	7.5	11	15	18.5	18.5	22	30	37
500 V	kW	3.5	4.5	5.5	7.5	4.5	7.5	10	11	18.5	18.5	22	30	37	37
690 V	kW	4	5.5	5.5	7.5	5.5	7.5	11	11	18.5	18.5	22	22	37	45
1000 V	kW	—	—	—	—	—	—	—	—	—	—	—	—	—	—
AC-4 (at I _a = 6 x I _e)															
400 V	kW	3	4	4	5.5	4	5.5	7.5	7.5	11	11	18.5	22	30	37
690 V (200,000 operating cycles)	kW	1.15	2	2	2.5	2	2.6	3.5	4.4	6	6	11.6	12.6	14.7	15.8
AC-1 (40°C, ≤ 690V)															
I _e	A	18	22	22	22	40	40	40	40	50	50	60	70	80	90

Accessories for contactors

Auxiliary switch blocks	front	3RH29 11	(p. 2/66)	3RH29 21	(p. 2/66)		
	lateral	3RH29 11	(p. 2/68)	3RH29 21	(p. 2/68)		
Terminal covers		—		—		3RT29 36	(p. 2/77)
Box terminals		—		—		—	
Surge suppressor		3RT29 16	(p. 2/73)	3RT29 26	(p. 2/73)	3RT29 36	(p. 2/73)

3RU21 and 3RB3 overload relays (Section 3)

3RU21, thermal, CLASS 10	3RU21 16	0.1-16A	(p. 3/10)	3RU21 26	0.18-40A	(p. 3/10)	3RU21 36	11-80A	(p. 3/10)
3RB30/31, solid-state, CLASS 5, 10, 20 and 30	3RB30 16	0.1-16A	(p. 3/22)	3RB30 26	0.1-40A	(p. 3/22)	3RB30 36	12-80A	(p. 3/22)
	3RB31 16		(p. 3/23)	3RB31 26		(p. 3/23)	3RB31 33		(p. 3/23)
3RB22/23, solid-state, CLASS 5, 10, 20 and 30	3RB2.83+ 3RB29 06	0.3-25A	(p. 3/34)				3RB22, 10-100A	(p. 3/34)	
							3RB22, 3RB23 and 3RB24 with current measuring module		

3RV20 circuit-breakers (Section 1)

Type	3RV20 11	0.18-16A	(p. 1/4)	3RV20 21	11-40A	(p. 1/4)	3RV20 31	9.5-80A	(p. 1/5)
Link modules	3RA29 11		(p. 1/10)	3RA29 21		(p. 1/10)	3RA29 31		(p. 1/10)

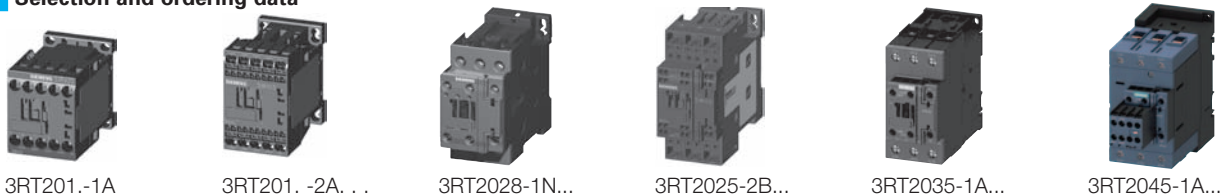
3RA23 Reversing contractor assemblies

Complete units	Type	3RA2315	3RA2316	3RA2317	3RA2318	3RA2324	3RA2325	3RA2326	3RA2327	3RA2328	3RA2335	3RA2336	3RA2337	3RA2338
460 V	HP	3	5	7.5	10	7.5	10	15	20	25	30	40	50	50
Installation kits / wiring connectors		3RA29 13-2AA1 (p. 2/81)				3RA29 23-2AA1 (p. 2/81)					3RA2933-2AA1 (p. 2/81)			
Mechanical interlocks		3RA29 12-2H (p. 2/82)				3RA29 22-2H (p. 2/82)					3RA2934-2B (p. 2/80)			

Contactor for Switching Motors

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

Selection and ordering data



Frame Size	Amp Ratings		Single-phase HP ratings			Three-phase HP ratings				Auxiliary contacts		Screw Terminals		Spring-Loaded Terminals ¹⁾		Weight approx. kg
	AC3	AC1	115V	208V	230V	208V	230V	460V	575V	NO	NC	Order No.	Order No.			
3RT 3-pole contactors																
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		
										0	1	3RT2015-1□●●2	3RT2015-2□●●2			
	9	22	0.33	1	1	2	3	5	7.5	1	0	3RT2016-1□●●1	3RT2016-2□●●1			
										0	1	3RT2016-1□●●2	3RT2016-2□●●2			
	12	22	0.5	1.5	2	3	3	7.5	10	1	0	3RT2017-1□●●1	3RT2017-2□●●1			
										0	1	3RT2017-1□●●2	3RT2017-2□●●2			
	16	22	1	2	2	3	5	10	10	1	0	3RT2018-1□●●1	3RT2018-2□●●1			
										0	1	3RT2018-1□●●2	3RT2018-2□●●2			
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			
	38	50	3	5	5	10	10	25	25	1	1	3RT2028-1□●●0	3RT2028-2□●●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			
	65 ²⁾	90	5	10	15	20	25	50	60	1	1	3RT2038-1□●●0	3RT2038-3□●●0			
S3	80	120	7.5	15	15	25	30	60	75	0	0	3RT1045-1□●●0	3RT1045-3□●●0	1.8/2.8		
	95	120	10	15	20	30	30	75	100	0	0	3RT1046-1□●●0	3RT1046-3□●●0			
	96	125	10	10	20	30	40	75	100	1	1	3RT2047-1□●●0	3RT2047-3□●●0			
Size S2 only: Replace “B” with “K” for 24VDC coil only Size S0 and S2 only: UC Electronic with integrated varistor												□ AC Coil = A DC Coil = B UC Coil = N	□ A B 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			
NEMA Labeled Contactors										Order No.	Order No.	
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 ²⁾	H2 ³⁾	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	—	—	—

²⁾ Use Code B0 for 3RT201, S00

³⁾ Use Code H0 for 3RT201, S00

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

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

⁴⁾ 3RT201 and 3RT202 only

UC Coil Selection for 3RT202

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

UC Coil Selection for 3RT203 & 3RT204

●●	B3	F3	P3 ⁵⁾
UC	20-33V	83-155V	175-280V

⁵⁾ at upper limit = 1.1 x U_S