Size		**S2**				**S3**		
Type		3RT203				3RT204		
3RT20 contactors								
Type		**3RT2035**	**3RT2036**	**3RT2037**	**3RT2038**	**3RT2045**	**3RT2046**	**3RT2047**
AC, DC operation		(p. 3/58, 3/67, 3/69)				(p. 3/59, 3/67, 3/70)		
AC-3								
I_e/AC-3/400 V	A	40	50	65	80	80	95	110
400 V	**kW**	**18.5**	**22**	**30**	**37**	**37**	**45**	**55**
230 V	kW	11	15	18.5	22	22	22	30
690 V	kW	22	22	37	45	55	75	90
1 000 V	kW	--	--	--	--	37	37	37
AC-4 (at I_a = 6 x I_e)								
400 V	**kW**	**18.5**	**22**	**30**	**37**	**37**	**45**	**55**
400 V (200 000 operating cycles)	kW	11.6	12.6	14.7	15.8	17.9	22	24.3
AC-1 (40 °C, ≤ 690 V)								
I_e	**A**	**60**	**70**	**80**	**90**	125	130	130

Accessories for contactors			
Auxiliary switch blocks	• On front	**3RH29, 3RA28** (p. 3/94 ... 3/101)	**3RH29, 3RA28** (p. 3/94 ... 3/101)
	• Lateral	**3RH29** (p. 3/98)	**3RH29** (p. 3/98)
Function modules	• Direct-on-line starting	**3RA283.** (p. 3/106)	**3RA283.** (p. 3/106)
	• IO-Link, AS-Interface	**3RA271.-.AA00** (p. 3/107, 3/108)	**3RA271.-.AA00** (p. 3/107, 3/108)
Surge suppressors		**3RT2936** (p. 3/103, 3/104)	**3RT2936**[1], **3RT2946** (p. 3/103, 3/104)
Terminal covers		**3RT2936-4EA2** (p. 3/118)	**3RT2946-4EA2** (p. 3/118)

3RU2 and 3RB overload relays			
3RU thermal overload relays		**3RU2136** 11 ... 80 A (p. 7/93)	**3RU2146** 28 ... 100 A (p. 7/93)
3RB electronic overload relays			
• For standard applications		**3RB3036, 3RB3133** 12.5 ... 80 A (p. 7/105 ... 7/107)	**3RB3046, 3RB3143** 12.5 ... 115 A (p. 7/105 ... 7/107)
• For High-Feature applications		**3RB22, 3RB23 and 3RB24** (p. 7/128, 7/136)	**3RB22, 3RB23 and 3RB24** (p. 7/128, 7/136)
		with current measuring module 3RB2906-2JG1 (p. 7/140)	**with current measuring module 3RB2906-2JG1** (p. 7/140)
		10 ... 100 A	10 ... 100 A

3RV20 motor starter protectors								
Motor starter protectors		**3RV2031, 3RV2032**		9.5 ... 80 A	(p. 7/30)	**3RV2041, 3RV2042**	28 ... 100 A	(p. 7/30)
Link modules		**3RA2931**			(p. 7/56)	**3RA1941**		(p. 7/56)
3RA23 reversing contactor assemblies								
Complete units	Type	**3RA2335** (p. 3/165)	**3RA2336**	**3RA2337**	**3RA2338**	**3RA2345** (p. 3/166)	**3RA2346**	**3RA2347**
400 V	**kW**	**18.5**	**22**	**30**	**37**	**37**	**45**	**55**
Assembly kits/wiring modules		**3RA2933-2AA.**			(p. 3/110)	**3RA2943-2AA.**		(p. 3/110)
Function modules		**3RA271.-.BA00**			(p. 3/107)	**3RA271.-.BA00**		(p. 3/107)
Mechanical interlocks		**3RA2934-2B**			(p. 3/114)	**3RA2934-2B**		(p. 3/114)
3RA24 contactor assemblies for star-delta (wye-delta) starting								
Complete units	Type	**3RA2434** (p. 3/182)	**3RA2435**	**3RA2436**	**3RA2437**	**3RA2444** (p. 3/183)	**3RA2445**	**3RA2446**
400 V	**kW**	**22/30**	**37**	**45**	**55**	**55**	**75**	**90**
Assembly kits/wiring modules		**3RA2933-2BB./-2C**			(p. 3/111)	**3RA2943-2BB./-2C**		(p. 3/111)
Function modules		**3RA271.-.CA00**			(p. 3/107)	**3RA271.-.CA00**		(p. 3/107)

[1] From product version E03 onwards, 3RT2936-1B/-1E surge suppressors can be used for 3RT2.4 contactors. When using an AC/DC coil, the surge suppressor is already integrated in the electronics.

Note:

Safety characteristics for contactors, see "Standards and approvals", page 16/6.

SIRIUS 3RT contactors, 3-pole up to 250 kW

Contactors with screw terminals: 3RT2 (sizes S00 to S3) and 3RT1 (sizes S6 to S12)

3RT contactors, sizes S00 to S12

Our power range:

- Contactors for switching motors:
  - Size S00: 3RT201 up to 7.5 kW
  - Size S0: 3RT202 up to 18.5 kW
  - Size S2: 3RT203 up to 37 kW
  - Size S3: 3RT204 up to 55 kW
  - Sizes S6 to S12: 3RT10 up to 250 kW
- For vacuum contactors for switching motors, see page 3/126 onwards:
  - Sizes S10 and S12: 3RT12 up to 250 kW
  - Size 14: 3TF6 up to 450 kW

Standards

IEC/EN 60947-1,
IEC/EN 60947-4-1,
IEC/EN 60947-5-1 (auxiliary switches)

Ambient conditions

If the devices are used in ambient conditions which deviate from common industrial conditions (IEC 60721-3-3 "Stationary Use, Weather-Protected"), information must be obtained about possible restrictions with regard to the reliability and endurance of the device and possible protective measures. In this case contact our Technical Support:
https://support.industry.siemens.com/My/ww/en/requests

Auxiliary contact complement

- Size S00: an auxiliary contact is integrated in the basic device.
- Sizes S0 to S3: the basic units contain two integrated auxiliary contacts (1 NO + 1 NC).
  All basic units, with the exception of coupling relays in sizes S00 and S0, can be expanded using auxiliary switch blocks, see page 3/88 for the permitted selection of auxiliary switches.
- Sizes S6 to S12: These contactors are supplied with two laterally mounted auxiliary switch blocks. The fitting of auxiliary switches is possible on the front and on the side (the 3RT12 vacuum contactor is an exception: only lateral fitting of auxiliary switches is possible here).

For detailed information about the fitting of auxiliary switches, see pages 3/88 to 3/93.

Contact reliability

If voltages ≤ 110 V and currents ≤ 100 mA are to be switched, the auxiliary contacts of the 3RT contactors or 3RH contactor relays should be used as they guarantee a high level of contact reliability.

These auxiliary contacts are particularly suitable for solid-state circuits with currents ≥ 1 mA at a voltage ≥ 17 V.

SIRIUS 3RT contactors, 3-pole up to 250 kW

Contactors for special applications

- SIRIUS 3RT.4 contactors for resistive loads (AC-1), 3-pole, see from page 4/6 onwards
- SIRIUS 3RT20 and 3RT10 contactors with an extended application range, 3-pole (for rail applications), see from page 4/52 onwards

Article No. scheme

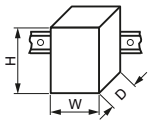
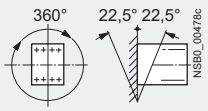
Product versions		Article number
SIRIUS power contactors		**3RT2** □ □ □ **–** □ □ □ □ □ **–** □ □ □ □
Device type	e.g. 0 = 3-pole motor contactor	□
Size of the contactor	e.g. 4 = S3	□
Power dependent on size	e.g. 5 = 37 kW in the case of S3	□
Type of electrical connection	e.g. 1 = screw terminals (main and auxiliary circuits)	□
Operating range/solenoid coil circuit	e.g. A = AC standard/without coil circuit	□
Rated control supply voltage	e.g. P0 = 230 V AC, 50 Hz	□ □
Auxiliary switches	e.g. 0 = in the case of S3: 1 NO + 1 NC integrated	□
Special version		□ □ □ □
Example		**3RT2 0 4 5 – 1 A P 0 0**

Note:

The Article No. scheme shows an overview of product versions for better understanding of the logic behind the article numbers.

For your orders, please use the article numbers quoted in the selection and ordering data.

SIRIUS 3RT contactors, 3-pole up to 250 kW

		Contactors			
Type		3RT2035	3RT2036	3RT2037	3RT2038
Size		S2			
General data					
Dimensions (W x H x D)					
• Basic unit - Screw/spring-type terminals	mm	55 x 114 x 130			
• Basic unit with mounted auxiliary switch block - Screw terminals - Spring-type terminals	mm mm	55 x 114 x 174 55 x 114 x 178			
• Basic unit with mounted function module or solid-state time-delayed auxiliary switch block - Screw/spring-type terminals	mm	55 x 114 x 204			
Permissible mounting position The contactors are designed for operation on a vertical mounting surface.					
Upright mounting position		 Special version required			
Mechanical endurance					
• Basic units and basic units with mounted auxiliary switch block	Operating cycles	10 million			
• Basic units with solid-state compatible auxiliary switch block	Operating cycles	5 million			
Electrical endurance		For contact endurance of the main contacts, see page 3/26.			
Rated insulation voltage U_i (pollution degree 3)	V	690			
Rated impulse withstand voltage U_{imp}					
• Auxiliary circuit	kV	6			
• Main circuit	kV	6			
Protective separation between the coil and the main contacts (acc. to IEC 60947-1, Appendix N)	V	400			
Mirror contacts A mirror contact is an auxiliary NC contact that cannot be closed simultaneously with an NO main contact.					
• Integrated auxiliary switches		Yes, acc. to IEC 60947-4-1, Appendix F			
• 3RT2.3. (removable auxiliary switch block)		Yes, acc. to IEC 60947-4-1, Appendix F			
Permissible ambient temperature					
• During operation	°C	-25 ... +60			
• During storage	°C	-55 ... +80			
Degree of protection acc. to IEC 60529					
• On front		IP20			
• Connecting terminal		IP00 (for higher degree of protection, use additional terminal covers)			
Touch protection acc. to IEC 60529		Finger-safe for vertical touching from the front			
Shock resistance					
• Rectangular pulse - AC operation - DC operation	 *g*/ms *g*/ms	 11.8/5 and 7.4/10 7.7/5 and 4.5/10			
• Sine pulse - AC operation - DC operation	 *g*/ms *g*/ms	 18.5/5 and 11.6/10 12/5 and 7/10			
Short-circuit protection					
Main circuit					
• Fuse links, operational class gG: LV HRC, type 3NA; DIAZED, type 5SB; NEOZED, type 5SE acc. to IEC/EN 60947-4-1					
- Type of coordination "1"	A	160		250	
- Type of coordination "2"	A	80		125	160
- Weld-free (test conditions acc. to IEC 60947-4-1)	A	16	25	50	
Auxiliary circuit					
• Fuse links, operational class gG: DIAZED, type 5SB; NEOZED, type 5SE (weld-free protection at $I_k \leq 1$ kA)	A	10			
• 230 V miniature circuit breaker, C characteristic (short-circuit current $I_k < 400$ A)	A	10			
Short-circuit protection for contactors with overload relays		See Configuration Manual for load feeders			
Short-circuit protection for fuseless load feeders		See 3RA2 load feeders, from page 8/4 onwards			

		Contactors		Coupling contactors
Type		3RT203.-.A...	3RT203.-.N.3.	3RT203.-.KB4.
Size		S2		
Control				
Type of operating mechanism		AC	AC/DC	DC
Solenoid coil operating range				
• AC operation[1]		0.8 ... 1.1 x U_s	--	
• AC/DC operation[1]		--	0.8 ... 1.1 x U_s	--
• DC operation		--		0.8 ... 1.2 x U_s
Power consumption of the solenoid coils (for cold coil and 1.0 x U_s)				
• AC operation, 50 Hz, standard version				
- Closing	VA	190	--	
- P.f.		0.72	--	
- Closed	VA	16	--	
- P.f.		0.37	--	
• AC operation, 50/60 Hz, standard version				
- Closing	VA	210/188	--	
- P.f.		0.69/0.65	--	
- Closed	VA	17.2/16.5	--	
- P.f.		0.36/0.39	--	
• AC operation, 60 Hz, for USA/Canada				
- Closing	VA	212	--	
- P.f.		0.67	--	
- Closed	VA	18.5	--	
- P.f.		0.37	--	
• AC/DC operation				
- Closing for AC operation	VA	--	40	--
- P.f.		--	0.95	--
- Closed for AC operation	VA	--	2	--
- P.f.		--	0.95	--
• DC operation				
- Closing for DC operation	W	--	23[2]	21.5
- Closed for DC operation	W	--	1	1
Permissible residual current of the electronics (with 0 signal)				
• AC/DC operation	mA	--	< 20	--
• DC operation	mA	--		< 20
Overvoltage configuration of the solenoid coil		--	Built-in varistor  U	Built-in varistor  U
Operating times at 0.7 ... 1.25 x U_s[3]				
Total break time = Opening delay + Arcing time				
• DC operation				
- Closing delay	ms	--		45 ... 60
- Opening delay	ms	--		35 ... 55
Operating times at 1.0 x U_s[3]				
• AC operation				
- Closing delay	ms	12 ...22	35 ... 80	--
- Opening delay	ms	10 ...18	30 ... 55	--
• DC operation				
- Closing delay	ms	--	35 ... 80	35 ... 80
- Opening delay	ms	--	30 ... 55	30 ... 55
• Arcing time	ms	10 ... 20		

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) In the case of AC/DC coils, increased starting currents (2.6 A on average) occur during the first 200 ms. For direct control from a PLC, we therefore recommend special coupling contactors with adapted power consumption. The connection of one 3RT203.-. KB4. coupling contactor is possible per PLC output port with an output current of 2 A, see page 3/67.

3) The OFF-delay of the NO contact and the ON-delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (varistor +2 ms to 5 ms, diode assembly: 2x to 6x).

SIRIUS 3RT contactors, 3-pole up to 250 kW

			Contactors			
Type			3RT2035	3RT2036	3RT2037	3RT2038
Size			S2			
Rated data of the main contacts						
Load rating with AC						
Utilization category AC-1, switching resistive loads						
• Rated operational current I_e	At 40 °C up to 690 V	A	60	70	80	90
	At 60 °C up to 690 V	A	55	60	70	80
• Rated power for AC loads[1] P.f. = 0.95 (at 60 °C)	230 V	kW	23	26	30	34
	400 V	kW	39	46	53	59
	690 V	kW	68	79	91	102
• Minimum conductor cross-section for loads with I_e	At 40 °C	mm^2	16	25		35
	At 60 °C	mm^2	16		25	
Utilization categories AC-2 and AC-3						
• Rated operational currents I_e	Up to 400 V	A	40	50	65	80
	440 V	A	40	50	65	80
	500 V	A	40	50	65	80
	690 V	A	24		47	58
• Rated power for slipring or squirrel-cage motors at 50 Hz and 60 Hz	At 230 V	kW	11	15	18.5	22
	400 V	kW	18.5	22	30	37
	690 V	kW	22		37	45
Thermal load capacity	10 s current	A	400	420	520	640
Power loss per conducting path	At I_e/AC-3	W	2.2	4	3.8	5.7
Utilization category AC-4 (for $I_a = 6 \times I_e$)						
• Maximum values						
- Rated operational current I_e	Up to 400 V	A	35	41	55	
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	At 400 V	kW	18.5	22	30	
• The following applies to a contact endurance of about 200 000 operating cycles:						
- Rated operational currents I_e	Up to 400 V	A	22	24	28	30
	690 V	A	18.5	20	22	24
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	At 110 V	kW	3.2	3.5	4.1	4.3
	230 V	kW	6.7	7.3	8.5	9.1
	400 V	kW	11.6	12.6	14.7	15.8
	690 V	kW	16.8	18.2	20	21.8

[1] Industrial furnaces and electric heaters with resistance heating, etc. (increased power consumption on heating up has been taken into account).

Type				Contactors 3RT2035	3RT2036	3RT2037	3RT2038
Size				S2			
Rated data of the main contacts (continued)							
Load rating with DC							
Utilization category DC-1, switching resistive loads (*L/R* ≤ 1 ms)							
• Rated operational currents I_e (at 60 °C)							
- 1 conducting path	Up to 24 V	A		55			
	60 V	A		23			
	110 V	A		4.5			
	220 V	A		1			
	440 V	A		0.4			
	600 V	A		0.25			
- 2 conducting paths in series	Up to 24 V	A		55			
	60 V	A		45			
	110 V	A		45			
	220 V	A		5			
	440 V	A		1			
	600 V	A		0.8			
- 3 conducting paths in series	Up to 24 V	A		55			
	60 V	A		55			
	110 V	A		55			
	220 V	A		45			
	440 V	A		2.9			
	600 V	A		1.4			
Utilization category DC-3/DC-5, shunt-wound and series-wound motors (*L/R* ≤ 15 ms)							
• Rated operational currents I_e (at 60 °C)							
- 1 conducting path	Up to 24 V	A		35			
	60 V	A		6			
	110 V	A		2.5			
	220 V	A		1			
	440 V	A		0.1			
	600 V	A		0.06			
- 2 conducting paths in series	Up to 24 V	A		55			
	60 V	A		45			
	110 V	A		25			
	220 V	A		5			
	440 V	A		0.27			
	600 V	A		0.16			
- 3 conducting paths in series	Up to 24 V	A		55			
	60 V	A		55			
	110 V	A		55			
	220 V	A		25			
	440 V	A		0.6			
	600 V	A		0.35			
Switching frequency							
Switching frequency *z* in operating cycles/hour							
Contactors without overload relays							
• No-load switching frequency	AC	1/h		5 000			
	AC/DC	1/h		1 500			
• Switching frequency *z* during rated operation[1)]							
- I_e/AC-1	At 400 V	1/h		1 200	1 000	800	700
- I_e/AC-2	At 400 V	1/h		750	600	400	350
- I_e/AC-3	At 400 V	1/h		1 000	800	700	500
- I_e/AC-4	At 400 V	1/h		300	250	200	150
Contactors with overload relays							
• Mean value		1/h		15			

[1)] Dependence of the switching frequency *z'* on the operational current *I'* and operational voltage *U'*: $z' = z \cdot (I_e/I') \cdot (U_e/U')^{1.5} \cdot 1/h$.

SIRIUS 3RT contactors, 3-pole up to 250 kW

		Contactors
Type		3RT2035 to 3RT2038
Size		S2
Conductor cross-sections		
Main conductors (1 or 2 conductors can be connected)		Screw terminals
• Solid or stranded	mm^2	2 x (1 ... 35)[1]; 1 x (1 ... 50)[1]
• Finely stranded with end sleeve (DIN 46228-1)	mm^2	2 x (1 ... 25)[1]; 1 x (1 ... 35)[1]
• AWG cables, solid or stranded	AWG	2 x (18 ... 2)[1]; 1 x (18 ... 1)[1]
• Terminal screws - Tightening torque	Nm	Pozidriv size 2; Ø 5 ... 6 3 ... 4.5 (27 ... 40 lb.in)
Auxiliary conductors and control conductors (1 or 2 conductors can be connected)		
• Solid or stranded	mm^2	2 x (0.5 ... 1.5)[1]; 2 x (0.75 ... 2.5)[1]
• Finely stranded with end sleeve (DIN 46228-1)	mm^2	2 x (0.5 ... 1.5)[1]; 2 x (0.75 ... 2.5)[1]
• AWG cables, solid or stranded	AWG	2 x (20 ... 16)[1]; 2 x (18 ... 14)[1]
• Terminal screws - Tightening torque	Nm	M3 (for Pozidriv size 2; Ø 5 ... 6) 0.8 ... 1.2 (7 ... 10.3 lb.in)
Auxiliary and control conductors[2] (1 or 2 conductors can be connected)		Spring-type terminals
• Operating devices	mm	3.0 x 0.5
• Solid or stranded	mm^2	2 x (0.5 ... 2.5)
• Finely stranded with end sleeve (DIN 46228-1)	mm^2	2 x (0.5 ... 1.5)
• Finely stranded without end sleeve	mm^2	2 x (0.5 ... 2.5)
• AWG cables, solid or stranded	AWG	2 x (20 ... 14)

[1] If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in one of the ranges specified.

[2] Max. external diameter of the conductor insulation: 3.6 mm. On spring-type terminals with conductor cross-sections ≤ 1 mm^2 an insulation stop must be used, see page 3/121.

DC operation for direct control from the PLC ⎓

- Coupling contactors with adapted power consumption
- Suitable for solid-state PLC/F-PLC outputs with 2 A

PU (UNIT, SET, M) = 1
PS* = 1 unit
PG = 41B

3RT203.-1KB40

3RT203.-3KB40

3RT204.-1KB40

3RT204.-3KB40

Rated data			Auxiliary contacts			Rated control supply voltage U_s	SD	**Screw terminals**	SD	**Spring-type terminals**
AC-2 and AC-3, t_u: 60 °C		AC-1, t_u: 40 °C								
Operational current I_e up to 400 V	Ratings of three-phase motors at 50 Hz and **400 V**	Operational current I_e up to 690 V	Ident. No.	Version NO	Version NC	DC		Article No. / Price per PU		Article No. / Price per PU
A	**kW**	A		NO	NC	V	d		d	
For screw fixing and snap-on mounting onto TH 35 standard mounting rail										
Size S2										
With integrated coil circuit (varistor)										
Operating range **0.8 ... 1.2 x U_s**, closing power of the solenoid coils **21.5 W** at 24 V										
40	**18.5**	60	**11**	1	1	24	▶	**3RT2035-1KB40**	X	**3RT2035-3KB40**
50	**22**	70	**11**	1	1	24	▶	**3RT2036-1KB40**	X	**3RT2036-3KB40**
65	**30**	80	**11**	1	1	24	▶	**3RT2037-1KB40**	X	**3RT2037-3KB40**
80	**37**	90	**11**	1	1	24	▶	**3RT2038-1KB40**	5	**3RT2038-3KB40**
For screw and snap-on mounting onto TH 35-15 and TH 75-15 standard mounting rails										
Size S3										
With integrated coil circuit (varistor)										
Operating range **0.8 ... 1.2 x U_s**, closing power of the solenoid coils **25 W** at 24 V										
80	**37**	125	**11**	1	1	24	2	**3RT2045-1KB40**	2	**3RT2045-3KB40**
95	**45**	130	**11**	1	1	24	2	**3RT2046-1KB40**	2	**3RT2046-3KB40**

Other voltages according to page 3/74 on request.

Accessories and spare parts, see pages 3/76 to 3/125.

*** You can order this quantity or a multiple thereof.**
Illustrations are approximate

Options

Rated control supply voltages for 3RT20 contactors, possible on request (change of the 10th and 11th digits of the Article No.)

Delivery time on request

Rated control supply voltage U_s	Contactor type / Size	3RT201, 3RH2 S00	3RT202 S0	3RT203 S2	3RT204 S3
Sizes S00 to S3					
AC operation[1]					
Solenoid coils for 50 Hz (exception: Size S00: 50 Hz and 60 Hz[2])					
24 V AC		B0	B0	B0	B0
42 V AC		D0	D0	D0	D0
48 V AC		H0	H0	H0	H0
110 V AC		F0	F0	F0	F0
230 V AC		P0	P0	P0	P0
240 V AC		U0	U0	U0	U0
400 V AC		V0	V0	V0	V0
Solenoid coils for 50 Hz and 60 Hz[2]					
24 V AC		B0	C2	C2	C2
42 V AC		D0	D2	D2	D2
48 V AC		H0	H2	H2	H2
110 V AC		F0	G2	G2	G2
220 V AC		N2	N2	N2	N2
230 V AC		P0	L2	L2	L2
Solenoid coils (for USA and Canada[3])					
50 Hz	**60 Hz**				
110 V AC	120 V AC	K6	K6	K6	K6
220 V AC	240 V AC	P6	P6	P6	P6
Solenoid coils (for Japan)					
50/60 Hz[4]	**60 Hz[5]**				
100 V AC	110 V AC	G6	G6	G6	G6
200 V AC	220 V AC	N6	N6	N6	N6
400 V AC	440 V AC	R6	R6	R6	R6
DC operation[1]					
12 V DC		A4	A4	--	--
24 V DC		B4	B4	--	--
42 V DC		D4	D4	--	--
48 V DC		W4	W4	--	--
60 V DC		E4	E4	--	--
110 V DC		F4	F4	--	--
125 V DC		G4	G4	--	--
220 V DC		M4	M4	--	--
230 V DC		P4	P4	--	--

Examples

AC operation	3RT2023-1A**P0**0	Contactor with screw terminals; with solenoid coil for 50 Hz for rated control supply voltage 230 V AC.
	3RT2023-1A**G2**0	Contactor with screw terminals; with solenoid coil for 50/60 Hz for rated control supply voltage 110 V AC.
DC operation	3RT2025-2B**B4**0	Contactor with spring-type terminals; for rated control supply voltage 24 V DC.
	3RT2025-2B**G4**0	Contactor with spring-type terminals; for rated control supply voltage 125 V DC.

1) For deviating coil voltages and operating ranges of sizes S00 and S0, a SITOP 24 V DC power supply with wide-range input can be used for the coil control, see page 15/1 onwards.

2) 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.

3) Coil operating range
- Size S00:
  At 50 Hz: 0.85 to 1.1 x U_s,
  at 60 Hz: 0.8 to 1.1 x U_s
- Sizes S0 to S3: at 50 Hz and 60 Hz: 0.8 to 1.1 x U_s.

4) Coil operating range
- Size S00:
  At 50/60 Hz: 0.85 to 1.1 x U_s
- Size S0:
  at 50 Hz: 0.8 to 1.1 x U_s;
  at 60 Hz: 0.85 to 1.1 x U_s.

5) Coil operating range at 60 Hz: 0.8 to 1.1 x U_s.

Rated control supply voltage $U_{s\,min}$ ... $U_{s\,max}$[1]	Contactor type / Size	3RT202.-.N S0	Rated control supply voltage $U_{s\,min}$ ... $U_{s\,max}$[1]	Contactor type / Size	3RT203.-.N S2	3RT204.-.N S3
Sizes S00 to S3						
AC/DC operation (50/60 Hz AC or DC)						
21 ... 28 V AC/DC		B3	20 ... 33 V AC/DC		B3	B3
95 ... 130 V AC/DC		F3	48 ... 80 V AC/DC		E3	E3
200 ... 280 V AC/DC[2]		P3	83 ... 155 V AC/DC		F3	F3
			175 ... 280 V AC/DC		P3	P3

1) Coil operating range
- Size S0: 0.7 x $U_{s\,min}$ to 1.3 x $U_{s\,max}$
- Sizes S2 and S3: 0.8 x $U_{s\,min}$ to 1.1 x $U_{s\,max}$.

2) The following applies to S0 and $U_{s\,max}$ = 280 V: Upper limit = 1.1 x $U_{s\,max}$.