Size		**S00**				**S0**					
Type		3RT201				3RT202					
3RT20 contactors											
Type		**3RT2015**	**3RT2016**	**3RT2017**	**3RT2018**	**3RT2023**	**3RT2024**	**3RT2025**	**3RT2026**	**3RT2027**	**3RT2028**
AC, DC operation		(p. 3/55, 3/60 ... 3/63)				(p. 3/56, 3/57, 3/64 ... 3/66, 3/68)					
AC-3											
I_e/AC-3/400 V	A	7	9	12	16	9	12	17	25	32	38
400 V	**kW**	**3**	**4**	**5.5**	**7.5**	**4**	**5.5**	**7.5**	**11**	**15**	**18.5**
230 V	kW	1.5	2.2	3	4	2.2	3	4	5.5	7.5	11
690 V	kW	4	5.5	5.5	7.5	7.5	7.5	11	11	18.5	18.5
1 000 V	kW	--	--	--	--	--	--	--	--	--	--
AC-4 (at $I_a = 6 \times I_e$)											
400 V	**kW**	**3**	**4**	**4**	**5.5**	**4**	**5.5**	**7.5**	**7.5**	**11**	**11**
400 V (200 000 operating cycles)	kW	1.15	2	2	2.5	2	2.6	3.5	4.4	6	6
AC-1 (40 °C, ≤ 690 V)											
I_e	**A**	**18**	**22**	**22**	**22**	**40**	**40**	**40**	**40**	**50**	**50**
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, star-delta (wye-delta) starting	**3RA281.**			(p. 3/106)	**3RA281.**					(p. 3/106)
	• IO-Link, AS-Interface	**3RA271.-.AA00**			(p. 3/107, 3/108)	**3RA271.-.AA00**					(p. 3/107, 3/108)
Surge suppressors		**3RT2916**			(p. 3/103, 3/104)	**3RT2926**					(p. 3/103, 3/104)
3RU2 and 3RB3 overload relays											
3RU thermal overload relays		**3RU2116**	0.11 ... 16 A		(p. 7/92)	**3RU2126**	1.8 ... 40 A				(p. 7/92)
3RB electronic overload relays											
• For standard applications		**3RB3016, 3RB3113**	0.1 ... 16 A		(p. 7/105 ... 7/107)	**3RB3026, 3RB3123**	0.1 ... 40 A				(p. 7/105 ... 7/107)
• For High-Feature applications		**3RB22, 3RB23 and 3RB24 with current measuring module**			(p. 7/128, 7/136)	**3RB22, 3RB23 and 3RB24 with current measuring module**					(p. 7/128, 7/136)
		3RB2906-2.G1	0.3 ... 25 A		(p. 7/140)	**3RB2906-2.G1**	0.3 ... 25 A				(p. 7/140)
3RV20 motor starter protectors											
Motor starter protectors		**3RV2011**	0.11 ... 16 A		(p. 7/28)	**3RV2021**	0.45 ... 40 A				(p. 7/29)
Link modules		**3RA1921, 3RA2911**			(p. 7/56)	**3RA2921**					(p. 7/56)
3RA23 reversing contactor assemblies											
Complete units	Type	**3RA2315**	**3RA2316**	**3RA2317**	**3RA2318**	**--**	**3RA2324**	**3RA2325**	**3RA2326**	**3RA2327**	**3RA2328**
		(p. 3/163)					(p. 3/164)				
400 V	**kW**	**3**	**4**	**5.5**	**7.5**		**5.5**	**7.5**	**11**	**15**	**18.5**
Assembly kits, etc.		**3RA2913-2AA.**			(p. 3/110)	**--**	**3RA2923-2AA.**				(p. 3/110)
Function modules		**3RA271.-.BA00**			(p. 3/107)	**--**	**3RA271.-.BA00**				(p. 3/107)
3RA24 contactor assemblies for star-delta (wye-delta) starting											
Complete units	Type	**3RA2415**	**3RA2416**	**3RA2417**		**3RA2423**		**3RA2425**	**3RA2426**		
		(p. 3/180)				(p. 3/181)					
400 V	**kW**	**5.5**	**7.5**	**11**		**11**		**15/18.5**	**22**		
Assembly kits/wiring modules		**3RA2913-2BB.**			(p. 3/111)	**3RA2923-2BB.**					(p. 3/111)
Function modules		**3RA271.-.CA00**			(p. 3/107)	**3RA271.-.CA00**					(p. 3/107)

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

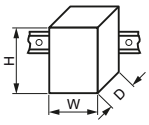
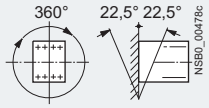
Article No. scheme

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.

			Contactors	
Type			**3RT2015, 3RT2016**	**3RT2017, 3RT2018**
Size			**S00**	
General data				
Dimensions (W x H x D)				
• Basic unit				
- Screw terminals		mm	45 x 58 x 73	
- Spring-type terminals		mm	45 x 70 x 73	
• Basic unit with mounted auxiliary switch block				
- Screw terminals		mm	45 x 58 x 117	
- Spring-type terminals		mm	45 x 70 x 121	
• Basic unit with mounted function module or solid-state time-delayed auxiliary switch block				
- Screw terminals		mm	45 x 58 x 147	
- Spring-type terminals		mm	45 x 70 x 147	
Permissible mounting position				
The contactors are designed for operation on a vertical mounting surface.				
Upright mounting position			 Special version required	
Mechanical endurance				
• Basic unit		Operating cycles	30 million	
- With mounted auxiliary switch block		Operating cycles	10 million	
- with solid-state compatible auxiliary switch block		Operating cycles	5 million	
Electrical endurance			For contact endurance of the main contacts, see page 3/25.	
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.				
• 3RT2.1. (removable auxiliary switch block)			Yes, this applies to both the basic unit as well as to between the basic unit and the mounted auxiliary switch block according to IEC 60947-4-1, Appendix F	
• 3RH2919-.NF.. solid-state compatible auxiliary switch blocks			No mirror contact for size S00	
Ambient temperature				
• During operation		°C	-25 ... +60	
• During storage		°C	-55 ... +80	
Degree of protection acc. to IEC 60529				
• On front			IP20 (screw terminals and spring-type terminals)	
• Connecting terminal			IP20 (screw terminals and spring-type terminals)	
Touch protection acc. to IEC 60529			Finger-safe (screw terminals and spring-type terminals)	
Shock resistance				
• Rectangular pulse				
- AC operation		*g*/ms	6.7/5 and 4.2/10	7.3/5 and 4.7/10
- DC operation		*g*/ms	6.7/5 and 4.2/10	7.3/5 and 4.7/10
• Sine pulse				
- AC operation		*g*/ms	10.5/5 and 6.6/10	11.4/5 and 7.3/10
- DC operation		*g*/ms	10.5/5 and 6.6/10	11.4/5 and 7.3/10

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

			Contactors	
Type			3RT2015, 3RT2016	3RT2017, 3RT2018
Size			S00	
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	35	50
- Type of coordination "2"		A	20	25
- Weld-free (test conditions acc. to IEC 60947-4-1)		A	10	
• Miniature circuit breaker (up to 230 V) with C characteristic Short-circuit current 1 kA, type of coordination "1"		A	10	
Auxiliary circuit				
Short-circuit test according to IEC/EN 60947-5-1				
• With fuse links, operational class gG: DIAZED, type 5SB; NEOZED, type 5SE with short-circuit current I_k = 1 kA		A	10	
• With 230 V miniature circuit breaker, C characteristic with short-circuit current I_k = 400 A		A	6	
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 on page 8/4 onwards	
Control				
Solenoid coil operating range				
• AC operation	50 Hz		0.8 ... 1.1 x U_s	
	60 Hz		0.85 ... 1.1 x U_s	
• DC operation	Up to 50 °C		0.8 ... 1.1 x U_s	
	Up to 60 °C		0.85 ... 1.1 x U_s	
Power consumption of the solenoid coils (for cold coil and 1.0 x U_s)				
• AC operation, 50/60 Hz, standard version				
- Closing		VA	27/24.3	37/33
- P.f.			0.8/0.75	
- Closed		VA	4.2/3.3	5.7/4.4
- P.f.			0.25/0.25	
• AC operation, 50 Hz, for USA/Canada				
- Closing		VA	26.4	36
- P.f. for closing			0.81	0.8
- Closed		VA	4.4	5.9
- P.f. for closed			0.24	
• AC operation, 60 Hz, for USA/Canada				
- Closing		VA	31.7	43
- P.f. for closing			0.81	0.8
- Closed		VA	4.8	6.5
- P.f. for closed			0.25	
• DC operation (closing = closed)		W	4	
Permissible residual current of the electronics (with 0 signal)				
• AC operation			< 3 mA x (230 V/U_s)[1]	< 4 mA x (230 V/U_s)[1]
• DC operation			< 10 mA x (24 V/U_s)[1]	
Operating times for 1.0 x U_s[2]				
Total break time = Opening delay + Arcing time				
• AC operation				
- Closing delay		ms	9.5 ... 24	9 ... 22
- Opening delay		ms	4 ... 14	4.5 ... 15
• DC operation				
- Closing delay		ms	35 ... 50	
- Opening delay		ms	7 ... 12	
• Arcing time		ms	10 ... 15	

[1] The 3RT2916-1GA00 additional load module is recommended for higher residual currents, see page 3/120.

[2] The OFF-delay times of the NO contacts and the ON-delay times of the NC contacts increase if the contactor coils are attenuated against voltage peaks (suppression diode 6x to 10x; diode assembly 2x to 6x; suppression diode +1 to 5 ms; varistor +2 to 5 ms).

			Coupling contactors		
Type			3RT201.-.HB4.	3RT201.-.JB4.	3RT201.-.KB4.
Size			S00		
Control					
Solenoid coil operating range			0.7 ... 1.25 x U_s		
Power consumption of the solenoid coils (for cold coil) Closing = Closed	At U_s 24 V DC	W	2.8		
Permissible residual current of the electronics (with 0 signal)			< 6 mA x (24 V/U_s)		
Upright mounting position			On request		
Overvoltage configuration of the solenoid coil			No overvoltage damping 	Built-in diode 	Built-in suppressor diode 
Operating times					
• Closing delay					
- ON-delay NO		ms	35 ... 60		
- OFF-delay NC		ms	25 ... 40		
• Opening delay					
- ON-delay NO		ms	7 ... 20	38 ... 65	7 ... 20
- OFF-delay NC		ms	20 ... 30	55 ... 75	20 ... 30

			Coupling contactors		
Type			3RT201.-1MB4.-0KT0	3RT201.-1VB4.	3RT201.-1SB4.
Size			S00		
Control					
Solenoid coil operating range			0.85 ... 1.85 x U_s		
Power consumption of the solenoid coils (for cold coil) Closing = Closed	At U_s 24 V DC	W	1.6		
Permissible residual current, upright mounting position			On request		
Overvoltage configuration of the solenoid coil			No overvoltage damping 	Built-in diode 	Built-in suppressor diode 
Operating times					
• Closing delay					
- ON-delay NO		ms	25 ... 90		
- OFF-delay NC		ms	15 ... 80		
• Opening delay					
- ON-delay NO		ms	5 ... 20	20 ... 80	5 ... 20
- OFF-delay NC		ms	10 ... 30	30 ... 90	10 ... 30

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

			Contactors			
Type			3RT2015	3RT2016	3RT2017	3RT2018
Size			S00			
Rated data of the main contacts						
Load rating with AC						
Utilization category AC-1, switching resistive loads						
• Rated operational currents I_e	At 40 °C up to 690 V	A	18	22		
	At 60 °C up to 690 V	A	16	20		
• Rated power for AC loads[1] P.f. = 0.95 (at 60 °C)	230 V	kW	6	7.5		
	400 V	kW	10.5	13		
	690 V	kW	18	22		
• Minimum conductor cross-section for loads with I_e	At 40 °C	mm^2	2.5	4		
	At 60 °C	mm^2	2.5			
Utilization categories AC-2 and AC-3						
• Rated operational currents I_e	Up to 400 V	A	7	9	12	16
	440 V	A	7	9	11	14
	500 V	A	6	7.7	9.2	12.4
	690 V	A	4.9	6.7		8.9
• Rated power for slipring or squirrel-cage motors at 50 Hz and 60 Hz	At 230 V	kW	1.5	2.2	3	4
	400 V	kW	3	4	5.5	7.5
	690 V	kW	4	5.5		7.5
Thermal load capacity	10 s current	A	56	72	96	128
Power loss per conducting path	At I_e/AC-3	W	0.42	0.7	1.24	2.2
Utilization category AC-4 (at $I_a = 6 \times I_e$)[2]						
• Maximum values						
- Rated operational current I_e	Up to 400 V	A	6.5	8.5		11.5
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	Up to 400 V	kW	3	4		5.5
• The following applies to a contact endurance of about 200 000 operating cycles:						
- Rated operational currents I_e	Up to 400 V	A	2.6	4.1		5.5
	690 V	A	1.8	3.3		4.4
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	At 230 V	kW	0.67	1.1		1.5
	400 V	kW	1.15	2		2.5
	690 V	kW	1.15	2.5		3.5

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

2) The data applies to 3RT2516 and 3RT2517 contactors (2 NO + 2 NC) up to a rated operational voltage of 400 V only.

Type				Contactors 3RT2015	3RT2016 to 3RT2018
Size				S00	
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		15	20
	60 V	A		15	20
	110 V	A		1.5	2.1
	220 V	A		0.6	0.8
	440 V	A		0.42	0.6
	600 V	A		0.42	0.6
- 2 conducting paths in series	Up to 24 V	A		15	20
	60 V	A		15	20
	110 V	A		8.4	12
	220 V	A		1.2	1.6
	440 V	A		0.6	0.8
	600 V	A		0.5	0.7
- 3 conducting paths in series	Up to 24 V	A		15	20
	60 V	A		15	20
	110 V	A		15	20
	220 V	A		15	20
	440 V	A		0.9	1.3
	600 V	A		0.7	1
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		15	20
	60 V	A		0.35	0.5
	110 V	A		0.1	0.15
	220 V	A		--	
	440 V	A		--	
	600 V	A		--	
- 2 conducting paths in series	Up to 24 V	A		15	20
	60 V	A		3.5	5
	110 V	A		0.25	0.35
	220 V	A		--	
	440 V	A		--	
	600 V	A		--	
- 3 conducting paths in series	Up to 24 V	A		15	20
	60 V	A		15	20
	110 V	A		15	20
	220 V	A		1.2	1.5
	440 V	A		0.14	0.2
	600 V	A		0.14	0.2
Switching frequency					
Switching frequency *z* in operating cycles/hour					
Contactors without overload relays					
• No-load switching frequency	AC/DC		1/h	10 000	
• Switching frequency *z* during rated operation[1)]					
- I_e/AC-1	At 400 V		1/h	1 000	
- I_e/AC-2	At 400 V		1/h	750	
- I_e/AC-3	At 400 V		1/h	750	
- I_e/AC-4	At 400 V		1/h	250	
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		3RT2015 to 3RT2018
Size		S00
Conductor cross-sections		
Main conductors, auxiliary conductors and coil terminals (1 or 2 conductors can be connected)		**Screw terminals**
• Solid or stranded	mm^2	2 x (0.5 ... 1.5)[1]; 2 x (0.75 ... 2.5)[1]; max. 2 x 4
• 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]; 2 x 12
• Terminal screw		M3 (for Pozidriv size 2; Ø 5 ... 6)
• Tightening torque	Nm	0.8 ... 1.2 (7 ... 10.3 lb.in)
Main conductors, auxiliary conductors and coil terminals[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 ... 4)
• Finely stranded with end sleeve (DIN 46228-1)	mm^2	2 x (0.5 ... 2.5)
• Finely stranded without end sleeve	mm^2	2 x (0.5 ... 2.5)
• AWG cables, solid or stranded	AWG	2 x (20 ... 12)
Auxiliary conductors for front and laterally mounted auxiliary switches[2] (1 or 2 conductors can be connected)		
• 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.

SIRIUS 3RT contactors, 3-pole up to 250 kW *IE3/IE4* ready

DC operation ⎓

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

3RT201.-1B...

3RT201.-2B...

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	Ratings of three-phase motors at 50 Hz and	Operational current I_e up to	Ident. No.	Version		DC		Article No. / Price per PU		Article No. / Price per PU
400 V	**400 V**	690 V		NO	NC					
A	**kW**	A				V	d		d	
For screw fixing and snap-on mounting onto TH 35 standard mounting rail										
Size S00										
7	**3**	18	**10**	1	--	24 220	▶ 2	**3RT2015-1BB41** **3RT2015-1BM41**	▶ 5	**3RT2015-2BB41** **3RT2015-2BM41**
			01	--	1	24 220	▶ 5	**3RT2015-1BB42** **3RT2015-1BM42**	▶ 5	**3RT2015-2BB42** **3RT2015-2BM42**
9	**4**	22	**10**	1	--	24 220	▶ 5	**3RT2016-1BB41** **3RT2016-1BM41**	▶ 5	**3RT2016-2BB41** **3RT2016-2BM41**
			01	--	1	24 220	▶ 5	**3RT2016-1BB42** **3RT2016-1BM42**	▶ 5	**3RT2016-2BB42** **3RT2016-2BM42**
12	**5.5**	22	**10**	1	--	24 220	▶ 5	**3RT2017-1BB41** **3RT2017-1BM41**	▶ 5	**3RT2017-2BB41** **3RT2017-2BM41**
			01	--	1	24 220	▶ 5	**3RT2017-1BB42** **3RT2017-1BM42**	▶ 5	**3RT2017-2BB42** **3RT2017-2BM42**
16	**7.5**	22	**10**	1	--	24 220	▶ 5	**3RT2018-1BB41** **3RT2018-1BM41**	▶ 5	**3RT2018-2BB41** **3RT2018-2BM41**
			01	--	1	24 220	▶ 5	**3RT2018-1BB42** **3RT2018-1BM42**	▶ 5	**3RT2018-2BB42** **3RT2018-2BM42**
With integrated coil circuit (varistor) *NEW*										
7	**3**	18	**10**	1	--	24	5	**3RT2015-1UB41**	5	**3RT2015-2UB41**
			01	--	1	24	5	**3RT2015-1UB42**	5	**3RT2015-2UB42**
9	**4**	22	**10**	1	--	24	5	**3RT2016-1UB41**	5	**3RT2016-2UB41**
			01	--	1	24	5	**3RT2016-1UB42**	5	**3RT2016-2UB42**
12	**5.5**	22	**10**	1	--	24	5	**3RT2017-1UB41**	5	**3RT2017-2UB41**
			01	--	1	24	5	**3RT2017-1UB42**	5	**3RT2017-2UB42**
16	**7.5**	22	**10**	1	--	24	5	**3RT2018-1UB41**	5	**3RT2018-2UB41**
			01	--	1	24	5	**3RT2018-1UB42**	5	**3RT2018-2UB42**
With integrated coil circuit (diode)[1)]										
7	**3**	18	**10**	1	--	24	▶	**3RT2015-1FB41**	▶	**3RT2015-2FB41**
			01	--	1	24	▶	**3RT2015-1FB42**	▶	**3RT2015-2FB42**
9	**4**	22	**10**	1	--	24	▶	**3RT2016-1FB41**	▶	**3RT2016-2FB41**
			01	--	1	24	▶	**3RT2016-1FB42**	▶	**3RT2016-2FB42**
12	**5.5**	22	**10**	1	--	24	▶	**3RT2017-1FB41**	▶	**3RT2017-2FB41**
			01	--	1	24	▶	**3RT2017-1FB42**	▶	**3RT2017-2FB42**
16	**7.5**	22	**10**	1	--	24	▶	**3RT2018-1FB41**	▶	**3RT2018-2FB41**
			01	--	1	24	▶	**3RT2018-1FB42**	▶	**3RT2018-2FB42**

[1)] When using contactors with IE3/IE4 motors, use contactors fitted with varistors instead of diodes.
For more information about dimensioning and configuring, see page 3/7.

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 $U_{s\,max}$.