Switching Devices – Contactors and Contactor Assemblies

Power Contactors for Switching Motors

Introduction

Overview





Size Type						S0 3RT202						
3RT20 contactors												
Туре		3RT2015	3RT2016	3RT2017	3RT2018	3RT2023	3RT2024	3RT2025	3RT2026	3RT2027	3RT2028	
AC, DC operation		(p. 3/35, 3	/37)			(p. 3/42, 3/44, 3/47)						
AC-3												
I _e /AC-3/400 V	Α	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 1 000 V	kW kW	4	5.5 	5.5	7.5 	7.5	7.5 	11 	11	18.5 	18.5	
AC-4 (for $I_a = 6 \times I_e$)												
400 V	kW	3	4	4	5.5	4	5.5	7.5	7.5	11	11	
400 V	kW	1.15	2	2	2.5	2	2.6	3.5	4.4	6	6	
(200 000 operating cycles)												
AC-1 (40 °C, ≤ 690 V)												
I _e 3RT20	Α	18	22	22	22	40	40	40	40	50	50	
Accessories for contact	tors											
Auxiliary switch On fr	ont	3RH2911		(p. 3/64)		3RH2911		(p. 3/64)				
blocks Later	al	3RH2911		(p. 3/66)		3RH2921		(p. 3/66)				
Function modules (timing r	elays)	3RA281.		(p. 3/196)		3RA281.		(p. 3/196)				
Function modules (IO-Link,	AS-i)	V				3RA271	AA00	(p. 3/201, 3	3/206)			
Surge suppressors		3RT2916		(p. 3/71)		3RT2926		(p. 3/71)				
3RU2 and 3RB3 overloa	d rela	ys (Chapt	er 7, "Prot	ection Equ	uipment" -	→ "Overloa	ad Relays"	')				
3RU thermal overload relay	s	3RU2116	0.11 16	A		3RU2126	1.8 40 A	\				
3RB electronic overload rel	ays											
For standard applications	;	3RB3016 3RB3113	0.1 16 A			3RB3026 0.1 40 A 3RB3123						
For High-Feature applicat	ions		RB23 and 3F				RB23 and 3F					
		3RB2906-2.G1 current measuring module				3RB2906-2.G1 current measuring module						
			0.3 100	A			0.3 100	A				
3RV20 motor starter pro	tector	rs (Chapte	er 7, "Prote	ction Equ	ipment" →	"Motor S	tarter Prot	tectors")				
Туре		3RV2011	0.11 16	A		3RV2021	0.45 40	Α				
Link modules		3RA2911				3RA2921						
3RA23 reversing contact	tor as	semblies										
Complete units	Туре	3RA2315	3RA2316	3RA2317	3RA2318		3RA2324	3RA2325	3RA2326	3RA2327	3RA2328	
		(p. 3/163)					(p. 3/165)					
400 V	kW	3	4	5.5	7.5		5.5	7.5	11	15	18.5	
Assembly kits/wiring modu	les	3RA2913-	2AA.	(p. 3/168)			3RA2923-	2AA.	(p. 3/168)			
Function modules		3RA271	BA00	(p. 3/169)			3RA271	BA0	(p. 3/169)			
3RA24 contactor assem	ıbli <u>es</u> 1	for wye-de	elta s <u>tartin</u>	g								
Complete units	Туре	3RA2415	3RA2416	3RA2417		3RA2423		3RA2425	3RA2426			
		(p. 3/180)				(p. 3/182)						
400 V	kW	5.5	7.5	11		11		15/18.5	22			
Assembly kits/wiring modu	les	3RA2913-	2BB.	(p. 3/185)		3RA2923-2	2BB.	(p. 3/185)				
Function modules		3RA271	CA00	(p. 3/187)		3RA271	CA00	(p. 3/187)				
Note:												

Safety characteristics for contactors, see Chap. 16, "Appendix" \rightarrow "Standards and Approvals" \rightarrow "Overview".

			31H103 3H120 C0	miaciors, 3-pole, up to 37 kv
Туре			3RT2015, 3RT2016	3RT2017, 3RT2018
Size	- ∕-L		S00	S00
Dimensions (W x H x D) ¹⁾		mm	45 x 57.5 x 73 / 45 x 70 x 73	
With mounted auxiliary switch block		mm	45 x 57.5 x 116 / 45 x 70 x 121	
• With mounted function module	⋾ >°	mm	45 x 57.5 x 142 / 45 x 70 x 142	
General technical specifications	<u> </u>			
Permissible mounting position				
The contactors are designed for operation on a			0000 00 50 00 50 0	
vertical mounting surface.			360° 22,5° 22,5° 3	
Upright mounting position				
			NSB0_00477a Special version required	
Mechanical endurance				
Basic units			30 million	
Basic units with snap-on auxiliary switch block			10 million	
Solid-state compatible auxiliary switch block	Operatin	g cycles		
Electrical endurance		\	For contact endurance of the main	contacts, see page 3/17.
Rated insulation voltage U _i (pollution degree 3)		V	690	
Rated impulse withstand voltage U _{imp}		kV	6	
Protective separation between the coil and the main contacts acc. to IEC 60947-1, Appendix N Mirror contacts		V	400	
A mirror contact is an auxiliary NC contact that cannot be closed simultaneously with an NO main contact. • 3RT201., 3RT231. (removable auxiliary switch block) • 3RT201., 3RT231. (permanently mounted auxiliary switch block • 3RH2919NF solid-state compatible auxiliary switch blocks Ambient temperature				nit as well as to between the basic un ock acc. to IEC 60947-4-1, Appendix dix F, and SUVA
•		00	05	
During operationDuring storage		°C	-25 +60 -55 +80	
Degree of protection acc. to IEC 60947-1, Appendix C		-	IP20	
Touch protection acc. to EN 50274			Finger-safe	
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
Shock resistance 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
Conductor cross-sections			For conductor cross-sections, see p	page 3/23.
Short-circuit protection				
Main circuit				
 Fuse links, operational class gG: LV HRC, type 3NA; DIAZED, type 5SB; NEOZED, type 5SE according to IEC 60947-4-1/EN 60947-4-1 - Type of coordination "1" - Type of coordination "2" - Weld-free²) Miniature circuit breakers (up to 230 V) with C characteristic Short-circuit current 1 kA, type of coordination "1" 		A A A	35 20 10	50 25 10
Auxiliary circuit Auxiliary circuit				
Short-circuit test acc. to IEC 60947-5-1/EN 60947-5-1				
with fuse links of operational class gG: DIAZED, type 5SB; NEOZED, type 5SE with short-circuit current I _k = 1 kA		А	10	
• with 230 V miniature circuit breakers, C characteristic with short-circuit current $I_{\rm k}=400~{\rm A}$		А	6	
Short-circuit protection for contactors with overload relays			See Configuration Manual "Configuration.ide" http://support.automation.siemens.com/	ring SIRIUS Innovations", com/WW/view/en/39714188.
Short-circuit protection for fuseless load feeders			See Chapter 8 "Load Feeders and I Control Cabinet" → "SIRIUS 3RA2 L	
1) Dimensions for devices with screw terminals / spring-type terminals	inals.	2)	Test conditions according to IEC 60	0947-4-1.

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Type			3RT2015, 3RT2016	3RT2017, 3RT2018
Size			S00	S00
Control				
Solenoid coil operating range				
AC operation	50 Hz 60 Hz		0.8 1.1 x U _s 0.85 1.1 x U _s	
DC operation	Up to 50 °C Up to 60 °C		0.8 1.1 x <i>U</i> _s 0.85 1.1 x <i>U</i> _s	
Power consumption of the solenoid coils (for cold	coil and 1.0 x U _s)			
 AC operation, 50/60 Hz, standard version Closing P.f. Closed P.f. 		VA VA	27/24.3 0.8/0.75 4.2/3.3 0.25/0.25	37/33 0.8/0.75 5.7/4.4 0.25/0.25
 AC operation, 50 Hz, for USA/Canada Closing P.f. for closing Closed P.f. for closed 		VA VA	26.4 0.81 4.4 0.24	36 0.8 5.9 0.24
 AC operation, 60 Hz, for USA/Canada Closing P.f. for closing Closed P.f. for closed 		VA VA	31.7 0.81 4.8 0.25	43 0.8 6.5 0.25
 DC operation (closing = closed) 		W	4	4
Permissible residual current of the electronics (wit	h 0 signal)			
AC operation			$< 3 \text{ mA} \times (230 \text{ V/}U_s)^{1)}$	$< 4 \text{ mA} \times (230 \text{ V}/U_s)^{1)}$
DC operation			< 10 mA x (24 V/U _s) ¹⁾	, 0,
Operating times ²⁾			. 0.	
Total break time = Opening delay + Arcing time				
• AC operation for 0.8 1.1 x U _s	Closing delay Opening delay	ms ms	9 35 3.5 14	8 33 4 15
• DC operation for 0.85 1.1 \times $U_{\rm S}$	Closing delay Opening delay	ms ms	30 100 7 13	30 100 7 13
Arcing time		ms	10 15	10 15
Operating times for 1.0 x $U_s^{(2)}$				
AC operation	Closing delay Opening delay	ms ms	9.5 24 4 14	9 22 4.5 15
• DC operation	Closing delay Opening delay	ms ms	35 50 7 12	35 50 7 12

The 3RT2916-1GA00 additional load module is recommended for higher residual currents.

²⁾ 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 (noise suppression diode 6 to 10 times; diode assembly 2 to 6 times, suppressor diode +1 ms to 5 ms; varistor +2 ms to 5 ms).

Type			3RT2015	3RT2016	3RT2017	3RT2018
Size			S00	S00	S00	S00
Main circuit						
Load rating with AC						
Utilization category AC-1, Switching resistive loads						
 Rated operational current I_e 	At 40 °C up to 690 V At 60 °C up to 690 V	A A	18 16	22 20	22 20	22 20
• Rated power for AC loads ¹⁾ P.f.= 0.95 (at 60 °C)	230 V 400 V 690 V	kW kW kW	6 10.5 18	7.5 13 22	7.5 13 22	7.5 13 22
$ \bullet \ \text{Minimum conductor cross-section} \\ \text{for loads with} \ I_{\text{e}} $	At 40 °C At 60 °C	mm ² mm ²	2.5 2.5	4 2.5	4 2.5	4 2.5
Utilization categories AC-2 and AC-3						
$ullet$ Rated operational currents I_{e}	Up to 400 V 440 V 500 V 690 V	A A A	7 7 6 4.9	9 9 7.7 6.7	12 11 9.2 6.7	16 14 12.4 8.9
 Rated power for slipring or squirrel-cage motors at 50 and 60 Hz 	At 230 V 400 V 690 V	kW kW kW	1.5 3 4	2.2 4 5.5	3 5.5 5.5	4 7.5 7.5
Thermal load capacity	10 s current ²⁾	Α	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 (for $I_a = 6 \times I_e$) ³⁾						
Maximum values:						
- Rated operational current I_{e}	Up to 400 V	Α	6.5	8.5	8.5	11.5
 Rated power for squirrel-cage motors with 50 Hz and 60 Hz 	Up to 400 V	Α	3	4	4	5.5
 The following applies to a contact endurance of about 200 000 operating cycles: 						
- Rated operational currents $I_{\rm e}$	Up to 400 V 690 V	A A	2.6 1.8	4.1 3.3	4.1 3.3	5.5 4.4
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	At 230 V 400 V 690 V	kW kW kW	0.67 1.15 1.15	1.1 2 2.5	1.1 2 2.5	1.5 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)

account).

2) According to IEC 60947-4-1.
Rated values for various start-up conditions,
see Chapter 7, "Protection Equipment"

"Overload Relays".

³⁾ These data also apply to 3RT2516 and 3RT2517 (2 NO + 2 NC) up to a rated operational voltage of 400 V.

Туре			3RT2015	3RT2016	3RT2017	3RT2018
Size			S00	S00	S00	S00
Main circuit						
Load rating with DC						
Utilization category DC-1, switching resistive loads ($L/R \le 1$ ms)						
 Rated operational currents I_e (at 60 °C) 						
- 1 conducting path	Up to 24 V 60 V 110 V 220 V 440 V 600 V	A A A A A	15 15 1.5 0.6 0.42 0.42	20 20 2.1 0.8 0.6 0.6		
- 2 conducting paths in series	Up to 24 V 60 V 110 V	A A A	15 15 8.4	20 20 12		
	220 V 440 V 600 V	A A A	1.2 0.6 0.5	1.6 0.8 0.7		
- 3 conducting paths in series	Up to 24 V 60 V 110 V 220 V 440 V	A A A A	15 15 15 15 0.9	20 20 20 20 1.3		
	600 V	А	0.7	1		
Utilization category DC-3/DC-5, shunt-wound and series-wound motors ($L/R \le 15$ ms) • Rated operational currents I_e (at 60 °C)						
- 1 conducting path	Up to 24 V 60 V 110 V	A A A	15 0.35 0.1	20 0.5 0.15		
	220 V 440 V 600 V	A A A	 			
- 2 conducting paths in series	Up to 24 V 60 V 110 V	A A A	15 3.5 0.25	20 5 0.35		
	220 V 440 V 600 V	A A A	 			
- 3 conducting paths in series	Up to 24 V 60 V 110 V	A A A	15 15 15	20 20 20		
	220 V 440 V 600 V	A A A	1.2 0.14 0.14	1.5 0.2 0.2		
Switching frequency		-				
Switching frequency z in operating cycles/hour						
Contactors without overload relays						
No-load switching frequency	AC/DC	h ⁻¹	10 000			
• Switching frequency z during rated operation ¹⁾	A: 400 \	h ⁻¹	1.000			
- I ₀ /AC-1 - I ₀ /AC-2 - I ₀ /AC-3 - I ₀ /AC-4	At 400 V At 400 V At 400 V At 400 V	n · h ⁻¹ h ⁻¹ h ⁻¹	1 000 750 750 250			
Contactors with overload relays						
Mean value		h ⁻¹	15			

¹⁾ Dependence of the switching frequency z' on the operational current I' and operational voltage U': $z' = z \times (I_0 I') \times (400 \text{ V/U}')^{1.5} \times 1/\text{h}$

Туре		3RT2023 3RT2025	3RT2026 3RT2028	3RT202. NB3	3RT202. NF3	3RT202. NP3	
Size		S0	S0	S0	S0	S0	
Control							
Type of operating mechanism		AC or DC		UC (AC/DC)			
Solenoid coil operating range AC/D	С	0.8 1.1 x L	J _s	0.7 1.3 x	U _s 1)		
Power consumption of the solenoid coils (for cold coil and $1.0 \times U_s$)							
AC operation, 50 Hz, standard version							
- Closing - P.f.	VA	65 0.82	77 0.82	6.6 0.98	11.9 0.98	12.7 0.98	
- Closed	VA	7.6	9.8	1.9	1.6	3.9	
- P.f.		0.25	0.25	0.86	0.79	0.51	
AC operation, 50/60 Hz, standard version							
- Closing - P.f.	VA	68/67 0.72/0.74	81/79 0.72/0.74	6.6/6.7 0.98/0.98	11.9/12.0 0.98/0.98	12.7/14.7 0.98/0.98	
- Closed	VA	7.9/6.5	10.5/8.5	1.9/2.0	1.6/1.8	3.9/4.3	
- P.f.		0.25/0.28	0.25/0.28	0.86/0.82	0.79/0.74	0.51/0.56	
AC operation, 50 Hz, for USA/Canada	\ /A	05	77				
- Closing - P.f.	VA	65 0.82	77 0.82				
- Closed	VA	7.6	9.8				
- P.f.		0.25	0.28				
AC operation, 60 Hz, for USA/Canada		70	0.77				
- Closing - P.f.	VA	73 0.76	87 0.76				
- Closed	VA	7.2	9.4				
- P.f.	\^/	0.28	0.28	 0/1 4			
DC operation (closing = closed) Permissible residual surrent of the electronics (with 0 signal)	W	5.9/5.9	5.9/5.9	5.9/1.4	10.2/1.3	14.3/1.9	
Permissible residual current of the electronics (with 0 signal) • AC operation	mA	<6 mA x	<7 mA x (23	0 \/// \			
• AC operation	IIIA	(230 V/U _s)	iiiA X (23</td <td>0 V/U_S)</td> <td></td> <td></td>	0 V/U _S)			
DC operation	mA	<16 mA x (24	4 V/U _s)				
Operating times for 0.8 1.1 x $U_{\rm S}^{(2)}$							
Total break time = Opening delay + Arcing time							
AC operation							
- Closing delay	ms	9 38	8 40	60 80	50 70	60 80	
- Opening delay	ms	4 16	4 16	30 45	35 45	35 45	
DC operationClosing delay	ms	50 170	50 170	60 75	50 70	50 75	
- Opening delay	ms	15 17.5	15 17.5	30 45	35 45	40 50	
• Arcing time	ms	10	10	10	10	10	
Operating times for 1.0 x $U_s^{(2)}$							
AC operation							
- Closing delay	ms	10 18	10 17	65 80	50 70	60 80	
- Opening delay	ms	4 16	4 16	30 45	35 45	30 50	
• DC operation		55 00	FF 00	00 00	50. 70	00 00	
- Closing delay - Opening delay	ms ms	55 80 16 17	55 80 16 17	60 80 30 45	56 70 35 45	60 80 30 50	

The following applies to U_{s max} = 280 V: Upper limit = 1.1 x U_{s max}.
 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: 2 to 6 times).

SIRIUS 3RT20 contactors, 3-pole, up to 37 kW

Type		3RT2035	3RT2036	3RT2037	3RT2038		
Size Conductor cross-sections (1 or 2 conductors connectable)		S2	S2	S2	S2		
Main conductors		Screw termi	nals				
Solid or stranded	mm²	2 x (1 35) ¹⁾ ; 1 x	(1 50) ¹⁾				
Finely stranded with end sleeve	mm²	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 and control conductors							
Solid or stranded	mm^2	2 x (0.5 1.5) ¹⁾ ; 2	2 x (0.75 2.5) ¹⁾				
Finely stranded with end sleeve	mm^2	2 x (0.5 1.5) ¹⁾ ; 2 x (0.75 2.5) ¹⁾					
• Solid or stranded AWG (2 x)	AWG	2 x (20 16) ¹⁾ ; 2	x (18 14) ¹⁾				
Terminal screws Tightening torque	Nm	M3 (for Pozidriv si 0.8 1.2 (7 10.					
Auxiliary and control conductors ²⁾		Spring-type	terminals				
Operating devices ³⁾	mm	3.0 x 0.5					
Solid or stranded	mm^2	2 x (0.5 2.5)					
Finely stranded with end sleeve	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	WG 2 x (20 14)					
If two different conductor cross-sections are connected to one clamping	a						

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

Data for North America

Type Size			3RT2015 S00	3RT2016 S00	3RT2017 S00	3RT2018 S00
® and ® rated data						
Rated insulation voltage	V.	AC	600			
Uninterrupted current, at 40 °C, open and enclosed	А		20			
Maximum horsepower ratings (from ® and ® approved values)						
Rated power for three-phase motors at 60 Hz	At 200 V hp 230 V hp 460 V hp 575 V hp)	1.5 2 3 5	2 3 5 7.5	3 3 7.5 10	3 5 10 10
Short-circuit protection ¹⁾ (contactor or overload relay)	At 600 V kA	4	5			
• Fuse CLASS J ²⁾	Α		40			
 Circuit breakers with overload protection acc. to UL 489 	А		50			
 Combination motor controllers type E according to UL 508 and UL 60947-4-1 			Values on re	equest.		
Overload relays						
• Type			3RU211	/3RB301		
Setting range	А		0.11 16	/ 0.1 16		

¹⁾ For more information about short-circuit values, e.g. for protection against short-circuit currents, see the UL reports on the individual devices, www.siemens.com/sirius/manuals.

For the dimensioning of load feeders, see also the Configuration Manual "Configuring SIRIUS Innovations for UL", http://support.automation.siemens.com/WW/view/en/53433538.

2) Values for RK5 fuses on request.

²⁾ Max. external diameter of the cable insulation: 3.6 mm. On spring-type terminals with conductor cross-sections ≤ 1 mm², an insulation stop must be used, see Accessories, page 3/76.

³⁾ Tool for opening the spring-type terminals; see "Accessories", page 3/76.

SIRIUS 3RT20 contactors, 3-pole, up to 37 kW

Туре		3RT2023	3RT2024	3RT2025	3RT2026	3RT2027	3RT2028
Size		S0	S0	S0	S0	S0	S0
		30	30	30	30	30	30
® and ® rated data							
Rated insulation voltage	V A	C 600				600	
Uninterrupted current, at 40 °C, open and enclosed	Α	35				42	
Maximum horsepower ratings (from 3 and 4 approved values)							
Rated power for three-phase motors at 60 Hz	At 200 V hp 230 V hp 460 V hp 575 V hp	2 3 5 7.5	3 3 7.5 10	3 5 10 15	5 7.5 15 20	10 10 20 25	10 10 25 25
Short-circuit protection ¹⁾ (contactor or overload relay)	At 600 V kA	5					
• Fuse CLASS J ²⁾	А	125				150	
Circuit breakers with overload protection acc. to UL 489	А	70				100	
Combination motor controllers type E according to UL 508 and UL 60947-4-1	At 480 V Typ		n request.				
	At 600 V Typ		n request.				
Overload relays							
TypeSetting range	А	3RU212 1.8 40	/ 3RB302 / 0.1 40				

¹⁾ For more information about short-circuit values, e.g. for protection against short-circuit currents, see the UL reports on the individual devices, www.siemens.com/sirius/manuals.

²⁾ Values for RK5 fuses on request.

For the dimensioning of load feeders, see also the Configuration Manual "Configuring SIRIUS Innovations for UL", http://support.automation.siemens.com/WW/view/en/53433538.

Туре			3RT2035	3RT2036	3RT2037	3RT2038
Size			S2	S2	S2	S2
⊕ and ⊕ rated data						
Rated insulation voltage		V AC	600			
Uninterrupted current, at 40 °C, open and enclosed		Α	55	60	80	90
Maximum horsepower ratings (from ® and ® approved values)						
Rated power for three-phase motors at 60 Hz	At 200/208 V 230/240 V 460/480 V 575/600 V	hp hp	10 15 30 40	15 15 40 50	20 20 50 50	20 25 50 60
Short-circuit protection ¹⁾ (contactor or overload relay)	At 600 V	kA	5	10	10	10
RK5 fuse Circuit breakers with overload protection acc. to UL 489		Α	150	200	250	250
	At 480 V	Type	3RV1742			
		A kA	50 Values on r	50 request.	60	70
	At 600 V	Type A kA	3RV1742 40 Values on r	50 equest.	50	60
Overload relays			Thermal / e	lectronic		
TypeSetting range		А	3RU213 / 3 11 80 / 1			
1) For more information about about airquit values, a.g. for m			Familia alte			ra and also the

¹⁾ For more information about short-circuit values, e.g. for protection against short-circuit currents, see the UL reports on the individual devices, www.siemens.com/sirius/manuals.

For the dimensioning of load feeders, see also the Configuration Manual "Configuring SIRIUS Innovations for UL", http://support.automation.siemens.com/WW/view/en/53433538.

Туре		3RT201	3RT202, 3RT203			
Size	S00	S0, S2				
		Integrated or mountable auxiliary switch block	Integrated	Mountable auxiliary switch block		
® and ® rated data of the auxiliary contacts						
Rated voltage	V AC	600	600	600		
Switching capacity		A 600, Q 600	A 600, P 600	A 600, Q 600		
Uninterrupted current	At 240 V AC A	10	10	10		

SIRIUS 3RT20 contactors, 3-pole, up to 37 kW

AC operation

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





3RT202.-1A.00

3RT202.-2A.00

Rated data AC-2 and		AC-1.	,		supply voltage		Screw terminals DT		Spring-type terminals	8	
$T_{\rm u}$: Up to 6	0 °C	<i>T</i> _u : 40 °C				U _s at 50 Hz		Configurator	₹ ` }	Configurator	É
Operational current I_e up to	Rating ¹⁾ of three-phase motors at 50 Hz and	Opera- tional current I_e up to	Ident. No.	Version	<u> </u>			Article No.	Price per PU	Article No.	Price per PU
400 V	400 V	690 V									
Α	kW	Α		NO	NC	V AC					

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S0²⁾

A1(+) 1/L1 3/L2 5/L3 13 21 A2(-) 2/T1 4/T2 6/T3 14 22										
9	4	40	11	1	1	24 110 230	>	3RT2023-1AB00 3RT2023-1AF00 3RT2023-1AP00	A A	3RT2023-2AB00 3RT2023-2AF00 3RT2023-2AP00
12	5.5	40	11	1	1	24 110 230	>	3RT2024-1AB00 3RT2024-1AF00 3RT2024-1AP00	A A	3RT2024-2AB00 3RT2024-2AF00 3RT2024-2AP00
17	7.5	40	11	1	1	24 110 230	> > >	3RT2025-1AB00 3RT2025-1AF00 3RT2025-1AP00	A A	3RT2025-2AB00 3RT2025-2AF00 3RT2025-2AP00
25	11	40	11	1	1	24 110 230	>	3RT2026-1AB00 3RT2026-1AF00 3RT2026-1AP00	A A	3RT2026-2AB00 3RT2026-2AF00 3RT2026-2AP00
32	15	50	11	1	1	24 110 230	>	3RT2027-1AB00 3RT2027-1AF00 3RT2027-1AP00	A A	3RT2027-2AB00 3RT2027-2AF00 3RT2027-2AP00
38	18.5	50	11	1	1	24 110 230	>	3RT2028-1AB00 3RT2028-1AF00 3RT2028-1AP00	A A B	3RT2028-2AB00 3RT2028-2AF00 3RT2028-2AP00

 $\ensuremath{\mathfrak{D}}$ For online configurator, see www.siemens.com/sirius/configurators.

Other voltages according to page 3/50 on request.

For accessories, see page 3/59. For spare parts, see page 3/77.

¹⁾ Guide value for 4-pole standard motors at 50 Hz 400 V AC. The actual starting and rated data of the motor to be switched must be considered when selecting the units.

²⁾ The 3RT20 contactors are also available with ring terminal lug connection. Please contact your local Siemens representative for information about these special versions.