

Switching devices – Contactors and contactor assemblies – Special applications

Contactors for special applications

SIRIUS 3RT26 contactors for capacitive loads (AC-6b), 3-pole

Overview

Standards

IEC/EN 60947-1, IEC/EN 60947-4-1, IEC/EN 60947-5-1, IEC/EN 60831-1, IEC/EN 61921

Function

The 3RT26 contactors are special versions of the 3RT2, designed for switching capacitive loads (AC-6b) up to 100 kvar at 400 V.

Characteristic components of the 3RT26 contactors are the precharging resistors switched on via leading auxiliary contacts, which are closed before the main contacts. This limits the peak charging current of capacitive loads and thus minimizes negative impacts on the power supply network.

The 3RT26 contactors are suitable for switching choked or unchoked capacitors in reactive current compensation systems and are also used to switch converters.

Auxiliary contacts

All 3RT26 contactors for capacitive loads are equipped with auxiliary contacts at the factory.

The 3RT261 and 3RT262 contactors are equipped with a front-mounted auxiliary switch with integrated leading auxiliary contacts for the precharging resistors. A further fourth auxiliary contact in the auxiliary switch is unassigned.

A further freely assignable auxiliary contact is integrated in the basic unit of 3RT261; two of these are integrated in 3RT262.

In the case of the 3RT263 and 3RT264 contactors, the precharging resistors and their leading auxiliary contacts are integrated in the basic unit. These devices are supplied with an auxiliary switch mounted on the left, the auxiliary contacts of which are freely assignable.

Expansion is possible by means of an auxiliary switch with two auxiliary contacts on the right-hand side of the device.

Type Size	3RT261 S00	3RT262 S0	3RT263, 3RT264 S2, S3
Number of unassigned auxiliary contacts as delivered from the factory	2	3	2
Number of expandable auxiliary contacts	0	0	2

Conductor cross-sections

In order to connect the required minimum cross-section, the use of an infeed terminal may be necessary, see page 3/117. This enables the connection of larger cross-sections than the device connection itself actually allows. For 3RT2628 contactors, this infeed terminal is already included in the scope of supply and is already mounted on the contactor.

Technical specifications

More information

Technical specifications, see <https://support.industry.siemens.com/cs/ww/en/ps/16171/td>

Manuals, see <https://support.industry.siemens.com/cs/ww/en/ps/16171/man>

Type

3RT26

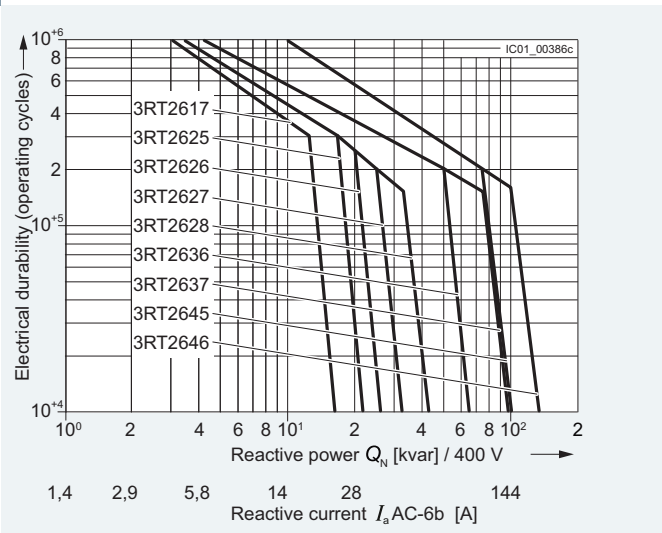
Size

S00 to S3

Contact endurance of the main contacts

The characteristic curves show the contact endurance of the contactors when switching capacitive loads (AC-6b) depending on the reactive power Q_N and rated operational voltage.

The rated operational current I_a in accordance with utilization category AC-6b (breaking of 1.35 times the rated operational current) is specified for a contact endurance of approximately 150 000 to 200 000 operating cycles.



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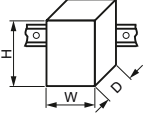
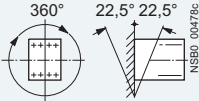
Contactors for special applications

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All technical specifications not mentioned in the table below are identical to those of the 3RT20 contactors:

- For size S00 as for the 3RT201 contactors
- For size S0 as for the 3RT202 contactors
- For size S2 as for the 3RT203 contactors
- For size S3 as for the 3RT204 contactors

See page 3/23 onwards.

Type		3RT2617	3RT2625	3RT2626	3RT2627	3RT2628	3RT2636	3RT2637	3RT2645	3RT2646
Size		S00	S0				S2		S3	
General data										
Dimensions (W x H x D) including auxiliary switches and connecting cables										
<ul style="list-style-type: none"> • AC operation 		mm	45 x 125 x 120	45 x 135 x 155			45 x 150 x 155	65 x 114 x 130	80 x 140 x 152	
	<ul style="list-style-type: none"> • DC operation, AC/DC operation 		mm	45 x 125 x 120	45 x 135 x 165			45 x 150 x 165	65 x 114 x 130	80 x 140 x 152
Permissible mounting position										
The contactors are designed for operation on a vertical mounting surface.										
										
Mechanical endurance										
Basic units with mounted auxiliary switch	Operating cycles		3 million							
Electrical endurance										
For apparent power at 400 V	kvar	12.5	16.7	20	25	33	50	75	100	
	Operating cycles	300 000	200 000			150 000	200 000	150 000	200 000	150 000
Rated insulation voltage U_i (pollution degree 3)	V	690							1 000 ²⁾	
Rated impulse withstand voltage U_{imp}	kV	6							8 ²⁾	
Protective separation between the coil and the main contacts acc. to IEC 60947-1, Appendix N	V	400							690	
Permissible ambient temperature										
• During operation ¹⁾	°C	-25 ... +60								
• During storage	°C	-55 ... +80								
Degree of protection IP on the front acc. to IEC 60529										
IP20										
Touch protection on the front acc. to IEC 60529										
Finger-safe for vertical touching from the front										
Shock resistance										
• Rectangular pulse	g/ms	6.7/5 and 4.2/10	7.5/5 and 4.7/10	8.3/5 and 5.3/10		6.8/5 and 4/10		10.3/5 and 6.7/10		
• Sine pulse	g/ms	10.5/5 and 6.6/10	11.8/5 and 7.4/10	13.5/5 and 8.3/10		10.6/5 and 6.2/10		16.3/5 and 10.5/10		
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	25 ... 40	32 ... 80	40 ... 80	50 ... 100	63 ... 100	100 ... 160	160 ... 200	200 ... 250	
Auxiliary circuit										
• With fuse links of operational class gG: DIAZED, type 5SB; NEOZED, type 5SE With short-circuit current $I_k = 1$ kA acc. to IEC 60947-5-1	A	10								
• With miniature circuit breakers with C characteristic with short-circuit current $I_k = 400$ A	A	10								

¹⁾ A clearance of 10 mm is required for side-by-side mounting.

²⁾ Only applies for main current paths, otherwise $U_i = 690$ V; $U_{imp} = 6$ kV.

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SIRIUS 3RT26 contactors for capacitive loads (AC-6b), 3-pole

Type		3RT2617-1A, -1B	3RT2625-1A, -1B	3RT2626-1A, -1B; 3RT2627-1A, -1B; 3RT2628-1A, -1B	3RT2636-1A, 3RT2637-1A	3RT2645-1A, 3RT2646-1A
Size		S00	S0		S2	S3
Control						
Solenoid coil operating range						
• AC operation	50 Hz	0.8 ... 1.1 x U_s	0.8 ... 1.1 x U_s		--	
	60 Hz	0.85 ... 1.1 x U_s	0.8 ... 1.1 x U_s		--	
• DC operation	At 50 °C	0.8 ... 1.1 x U_s			--	
	At 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 Hz, standard version						
- Closing	VA	--	77		190	296
- P.f.		--	0.82		0.72	0.61
- Closed	VA	--	9.8		16	19
- P.f.		--	0.25		0.37	0.38
• AC operation, 50/60 Hz, standard version						
- Closing	VA	49	81/79		210/188	348/296
- P.f.		0.8	0.72/0.74		0.69/0.65	0.62/0.55
- Closed	VA	7.8	10.5/8.5		17.2/16.5	25/18
- P.f.		0.25	0.25/0.28		0.36/0.39	0.35/0.41
• DC operation						
- Closing	W	4	5.9		--	
- Closed	W	4	5.9		--	
Operating times for 0.8 ... 1.1 x U_s¹⁾ Total break time = Opening delay + Arcing time						
• AC operation						
- Closing delay	ms	8 ... 33	9 ... 38	8 ... 40	10 ... 80	15 ... 25
- Opening delay	ms	4 ... 15	4 ... 16		10 ... 18	11 ... 20
• DC operation						
- Closing delay	ms	30 ... 100	55 ... 80	50 ... 170	--	
- Opening delay	ms	7 ... 13	16 ... 17	15 ... 18	--	
• Arcing time	ms	10 ... 15				

¹⁾ With size S00, DC operation: Operating times at 0.85 to 1.1 x U_s .

Type		3RT262.-1NB35	3RT262.-1NF35	3RT262.-1NP35	3RT263.-1N.35	3RT264.-1N.35
Size		S0			S2	S3
Control						
Solenoid coil operating range						
• AC/DC operation (50/60 Hz AC or DC)		--	0.7 ... 1.3 x U_s		0.8 ... 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	6.6/6.7	11.9/12.0	12.7/14.7	110	163
- P.f.		0.98/0.98			0.95	--
- Closed	VA	1.9/2.0	1.6/1.8	3.9/4.3	2.5	3.1
- P.f.		0.86/0.82	0.79/0.74	0.51/0.56	0.95	--
• DC operation						
- Closing	W	5.9	10.2	14.3	70	76
- Closed	W	1.4	1.3	1.9	1.5	1.8
Maximum permissible residual current of the electronics (with 0 signal)						
• AC operation (230 V/ U_s)	mA	7			< 20	
• DC operation (24 V/ U_s)	mA	16			< 20	
Operating times for 0.8 ... 1.1 x U_s Total break time = Opening delay + Arcing time						
• AC/DC operation						
- Closing delay	for 0.8 ... 1.1 x U_s	ms	50 ... 70		30 ... 100	50 ... 70
	for 1.0 x U_s	ms	--		30 ... 70	--
- Opening delay		ms	35 ... 45		30 ... 55	38 ... 57
• Arcing time		ms	10 ... 15			

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Type		3RT2617	3RT2625	3RT2626	3RT2627	3RT2628	3RT2636	3RT2637	3RT2645	3RT2646
Size		S00	S0				S2		S3	
Auxiliary circuit										
Auxiliary contacts (unassigned)		1 NO + 1 NC, 2 NC	1 NO + 2 NC				1 NO + 1 NC, 2 NC			
Further auxiliary switches, laterally mountable		--						No more than one lateral auxiliary switch can be mounted.		
Technical specifications including CSA and UL rated data of the auxiliary contacts, see 3RT20 contactors, page 3/23 onwards .										
Rated data of the main contacts										
Load rating with AC										
Utilization category AC-6b										
Switching of AC capacitors										
• Rated operational current I_e at AC										
- Up to 690 V at ambient temperature	40 °C A	18.9	25.3	30.2	37.8	50	75.8	113.4	113	151
- Up to 1 000 V at ambient temperature	60 °C A	18	24	29	36	47.6	72.2	108	54	144
- Up to 1 000 V at ambient temperature	60 °C A	--								68
• Rated operational reactive power at rated operational voltage										
230 V, 50/60 Hz kvar		7.2	9.6	11.5	14	19	29	43		57
400 V, 50/60 Hz kvar		12.5	16.7	20	25	33	50	75		100
500 V, 50/60 Hz kvar		15	21	25	31	41	63	94		125
690 V, 50/60 Hz kvar		21	29	34	43	57	86	129		172
1 000 V, 50/60 Hz kvar		--							94	125
• Minimum cross-section in the main circuit for max. AC-6b rated value		See								
		• Product data sheets of the relevant capacitor contactors and capacitors								
		• Operating instructions and manuals, https://support.industry.siemens.com/cs/ww/en/ps/16171/man								
Switching frequency										
No-load switching frequency	AC operation	1/h	500				500 ¹⁾			
	DC operation	1/h	500				500 ¹⁾			
Max. switching frequency z at $T_U = 60 °C^{(2)}$ in operating cycles/hour										
• At I_e /AC-6b and at										
230 V, 50/60 Hz	1/h	180		100					200	150
400 V, 50/60 Hz	1/h	180		100				100 / 80 ³⁾	100 / 80 ³⁾	80 / 60 ⁴⁾
480 V, 50/60 Hz	1/h	180		100		70	60	50	53	40
500 V, 50/60 Hz	1/h	180		100		65	55	45	53	40
600 V, 50/60 Hz	1/h	180		100		45	40	32	30	20
690 V, 50/60 Hz	1/h	180	150	100	72	36	30	25	30	20
1 000 V, 50/60 Hz	1/h	--							30	20
Ⓢ and Ⓜ rated data										
Rated insulation voltage	V AC	600								
Operational reactive power at AC-6b, 3-phase, at operational voltage										
110 ... 120 V kvar		3.4	4.6	5.5	6.3	8.3	14	19	20	25
200 ... 208 V kvar		6.2	8.3	10	11	15	25	34	37	45
220 ... 230 V kvar		6.9	9.2	11	13	17	27	38	41	50
460 ... 480 V kvar		14	18	22	25	33	55	75	82	100
575 ... 600 V kvar		17	23	27	31	41	69	94	103	125
Short-circuit protection	At 600 V kA	5				10				
Fuse for main circuit	Class RK5 A	40	80			100			250	

1) In case of AC/DC operation (UC operating mechanisms): max. 300/h.

2) Specifications for worst case scenario, higher switching frequency possible.


3) Operating cycles/h: 100 with AC operation; 80 with AC/DC operation.

4) Operating cycles/h: 80 with AC operation; 60 with AC/DC operation.

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Type		3RT2617	3RT2625, 3RT2626, 3RT2627	3RT2628	3RT2636	3RT2637	3RT2645, 3RT2646
Size		S00	S0		S2		S3
Conductor cross-sections							
Main conductors (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	2 x (1 ... 2.5) ¹⁾ ; 2 x (2.5 ... 10) ¹⁾		2 x (2.5 ... 35); 1 x (2.5 ... 50)		2 x (10 ... 70); 1 x (10 ... 70)
• Finely stranded with end sleeve (DIN 46228)	mm ²	2 x (0.5 ... 1.5) ¹⁾ ; 2 x (0.75 ... 2.5) ¹⁾	2 x (1 ... 2.5) ¹⁾ ; 2 x (2.5 ... 6) ¹⁾ ; 1 x 10	1 x (2.5 ... 16)	2 x (1 ... 25); 1 x (1 ... 35)	--	2 x (10 ... 50); 1 x (10 ... 50)
• AWG cables, solid or stranded	AWG	2 x (20 ... 16) ¹⁾ ; 2 x (18 ... 14) ¹⁾ ; 2 x 12	2 x (16 ... 12) ¹⁾ ; 2 x (14 ... 8) ¹⁾	1 x (10 ... 4)	2 x (18 ... 2); 1 x (18 ... 0)		2 x (8 ... 3/0); 1 x (8 ... 3/0)
• Terminal screw		M3 (for Pozidriv size 2; Ø 5 ... 6)	M4 (for Pozidriv size 2; Ø 5 ... 6)	M8	M6 (for Pozidriv size 2; Ø 5 ... 6)		M8 (hexagon socket, A/F 4)
• Tightening torque	Nm lb.in	0.8 ... 1.2 7 ... 10.3	2 ... 2.5 18 ... 22	3 ... 4 27 ... 36	3 ... 4.5 27 ... 40		4.5 ... 6 40 ... 53
Auxiliary 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⁾ ; max. 2 x 4					
• Finely stranded with end sleeve (DIN 46228)	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 lb.in	0.8 ... 1.2 7 ... 10.3					

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

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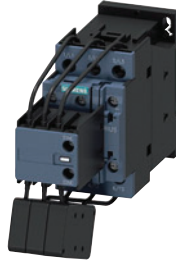
Selection and ordering data

AC operation

Main, auxiliary and control conductors: Screw terminals



3RT2617-1A.05



3RT262.-1A.05



3RT2628-1A.05
with infed terminal

Utilization category AC-6b				Auxiliary contacts, unassigned		Rated control supply voltage U_s		SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
Switching AC capacitors at an ambient temperature of 60 °C				Version		50 Hz AC	50/60 Hz AC		Article No.	Price per PU		
Capacitor rating at operational voltage 50/60 Hz						V	V	d				
At 230 V	At 400 V	At 500 V	At 690 V	kvar	kvar	kvar	kvar					
For screw fixing and snap-on mounting onto TH 35 standard mounting rail												
Size S00												
7.2	12.5	15	21	1	1	--	24	5	3RT2617-1AB03	1	1 unit	41B
						--	110	5	3RT2617-1AF03	1	1 unit	41B
						--	230	▶ 5	3RT2617-1AP03	1	1 unit	41B
7.2	12.5	15	21	0	2	--	24	5	3RT2617-1AB05	1	1 unit	41B
						--	110	5	3RT2617-1AF05	1	1 unit	41B
						--	230	5	3RT2617-1AP05	1	1 unit	41B
Size S0												
9.6	16.7	21	29	1	2	24	--	5	3RT2625-1AB05	1	1 unit	41B
						110	--	5	3RT2625-1AF05	1	1 unit	41B
						230	--	5	3RT2625-1AP05	1	1 unit	41B
11.5	20	25	34	1	2	24	--	5	3RT2626-1AB05	1	1 unit	41B
						110	--	5	3RT2626-1AF05	1	1 unit	41B
						230	--	5	3RT2626-1AP05	1	1 unit	41B
14	25	31	43	1	2	24	--	5	3RT2627-1AB05	1	1 unit	41B
						110	--	5	3RT2627-1AF05	1	1 unit	41B
						230	--	▶ 5	3RT2627-1AP05	1	1 unit	41B
19	33	41	57	1	2	24	--	5	3RT2628-1AB05	1	1 unit	41B
						110	--	5	3RT2628-1AF05	1	1 unit	41B
						230	--	5	3RT2628-1AP05	1	1 unit	41B

Other voltages according to page 4/53 on request.

Accessories and spare parts, see page 3/77 onwards.

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AC operation




Main, auxiliary and control conductors: Screw terminals



3RT263.-1A.05



3RT264.-1A.05

Utilization category AC-6b				Auxiliary contacts, unassigned		Rated control supply voltage U_s	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
Switching AC capacitors at an ambient temperature of 60 °C				Version		50 Hz AC		Article No.	Price per PU		
Capacitor rating at operational voltage 50/60 Hz				 		V	d				
At 230 V	At 400 V	At 500 V	At 690 V	NO	NC						
kvar	kvar	kvar	kvar								
For screw fixing and snap-on mounting onto TH 35 standard mounting rail											
Size S2											
29	50	63	86	1	1	24 110 230	5 2 ▶	3RT2636-1AB03 3RT2636-1AF03 3RT2636-1AP03	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
29	50	63	86	0	2	24 110 230	5 5 5	3RT2636-1AB05 3RT2636-1AF05 3RT2636-1AP05	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
43	75	94	129	1	1	24 110 230	5 5 ▶	3RT2637-1AB03 3RT2637-1AF03 3RT2637-1AP03	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
43	75	94	129	0	2	24 110 230	5 5 5	3RT2637-1AB05 3RT2637-1AF05 3RT2637-1AP05	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
For screw fixing and snap-on mounting onto TH 35-15 and TH 75-15 standard mounting rails											
Size S3											
43	75	94	129	1	1	24 110 230	5 5 5	3RT2645-1AB03 3RT2645-1AF03 3RT2645-1AP03	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
43	75	94	129	0	2	24 110 230	5 5 5	3RT2645-1AB05 3RT2645-1AF05 3RT2645-1AP05	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
57	100	125	172	1	1	24 110 230	5 5 2	3RT2646-1AB03 3RT2646-1AF03 3RT2646-1AP03	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
57	100	125	172	0	2	24 110 230	5 5 5	3RT2646-1AB05 3RT2646-1AF05 3RT2646-1AP05	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B

Other voltages [according to page 4/53](#) on request.

Accessories, [see page 3/77 onwards](#).

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SIRIUS 3RT26 contactors for capacitive loads (AC-6b), 3-pole

DC operation

Main, auxiliary and control conductors: Screw terminals



3RT2617-1B.45



3RT262.-1B.45



3RT2628-1B.45
with infeed terminal

Utilization category AC-6b				Auxiliary contacts, unassigned		Rated control supply voltage U_s		SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
Switching AC capacitors at an ambient temperature of 60 °C				Version		DC						
Capacitor rating at operational voltage 50/60 Hz									Article No.	Price per PU		
At 230 V	At 400 V	At 500 V	At 690 V									
kvar	kvar	kvar	kvar	NO	NC	V		d				
For screw fixing and snap-on mounting onto TH 35 standard mounting rail												
Size S00												
7.2	12.5	15	21	1	1	24	110	5	3RT2617-1BB43	1	1 unit	41B
								5	3RT2617-1BF43	1	1 unit	41B
7.2	12.5	15	21	0	2	24	110	5	3RT2617-1BB45	1	1 unit	41B
								5	3RT2617-1BF45	1	1 unit	41B
Size S0												
9.6	16.7	21	29	1	2	24	110	5	3RT2625-1BB45	1	1 unit	41B
								5	3RT2625-1BF45	1	1 unit	41B
11.5	20	25	34	1	2	24	110	5	3RT2626-1BB45	1	1 unit	41B
								5	3RT2626-1BF45	1	1 unit	41B
14	25	31	43	1	2	24	110	5	3RT2627-1BB45	1	1 unit	41B
								5	3RT2627-1BF45	1	1 unit	41B
19	33	41	57	1	2	24	110	5	3RT2628-1BB45	1	1 unit	41B
								5	3RT2628-1BF45	1	1 unit	41B

Other voltages according to page 4/53 on request.

Accessories, see page 3/77 onwards.

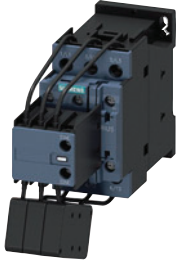
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SIRIUS 3RT26 contactors for capacitive loads (AC-6b), 3-pole

AC/DC operation

Main, auxiliary and control conductors: Screw terminals



3RT262.-1N.35






3RT2628-1N.35
with infeed terminal



3RT263.-1N.35



3RT264.-1N.35

Utilization category AC-6b Switching AC capacitors at an ambient temperature of 60 °C				Auxiliary contacts, unassigned Version		Rated control supply voltage U_s 50/60 Hz AC or DC	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
Capacitor rating at operational voltage 50/60 Hz				 				Article No.	Price per PU		
At 230 V	At 400 V	At 500 V	At 690 V	NO	NC	V	d				
kvar	kvar	kvar	kvar								

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

Size S0

9.6	16.7	21	29	1	2	21 ... 28 95 ... 130 200 ... 280	5 5 5	3RT2625-1NB35 3RT2625-1NF35 3RT2625-1NP35	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
11.5	20	25	34	1	2	21 ... 28 95 ... 130 200 ... 280	5 5 5	3RT2626-1NB35 3RT2626-1NF35 3RT2626-1NP35	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
14	25	31	43	1	2	21 ... 28 95 ... 130 200 ... 280	5 5 5	3RT2627-1NB35 3RT2627-1NF35 3RT2627-1NP35	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
19	33	41	57	1	2	21 ... 28 95 ... 130 200 ... 280	5 5 5	3RT2628-1NB35 3RT2628-1NF35 3RT2628-1NP35	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B

Size S2

29	50	63	86	0	2	20 ... 33 83 ... 155 175 ... 280	5 2 5	3RT2636-1NB35 3RT2636-1NF35 3RT2636-1NP35	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
43	75	94	129	0	2	20 ... 33 83 ... 155 175 ... 280	5 5 5	3RT2637-1NB35 3RT2637-1NF35 3RT2637-1NP35	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B

For screw fixing and snap-on mounting onto TH 35-15 and TH 75-15 standard mounting rails

Size S3

43	75	94	129	0	2	20 ... 33 83 ... 155 175 ... 280	5 5 5	3RT2645-1NB35 3RT2645-1NF35 3RT2645-1NP35	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B
57	100	125	172	0	2	20 ... 33 83 ... 155 175 ... 280	5 5 5	3RT2646-1NB35 3RT2646-1NF35 3RT2646-1NP35	1 1 1	1 unit 1 unit 1 unit	41B 41B 41B

Other voltages [according to page 4/53](#) on request.

Accessories, [see page 3/77 onwards](#).

Switching devices – Contactors and contactor assemblies – Special applications

Contactors for special applications

SIRIUS 3RT23 to 3RT26, 3RT14 contactors

Options

Rated control supply voltages for 3RT2 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	3RT231, 3RT251	3RT232, 3RT252	3RT233, 3RT253	3RT234, 3RT244, 3RT254	3RT2617, 3RT262, 3RT263, 3RT264
	Size	S00	S0	S2	S3	S00 to S3

Sizes S00 to S3

AC operation¹⁾

Solenoid coils for 50 Hz

(exception: Size S00: 50 and 60 Hz²⁾)

24 V AC	B0	B0	B0	B0	B0
42 V AC	D0	D0	D0	D0	--
48 V AC	H0	--	--	H0	--
110 V AC	F0	F0	F0	F0	F0
230 V AC	P0	P0	P0	P0	P0
240 V AC	--	--	U0	U0	--
400 V AC	V0	V0	V0	V0	--

Solenoid coils for 50 and 60 Hz²⁾

24 V AC	B0	C2	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	N2
230 V AC	P0	L2	L2	L2	L2

Solenoid coils (for USA and Canada³⁾)

50 Hz	60 Hz				
110 V AC	120 V AC	K6	K6	K6	--
220 V AC	240 V AC	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 operation¹⁾

12 V DC	A4	A4	--	--	--
24 V DC	B4	B4	--	--	B4
42 V DC	D4	D4	--	--	--
48 V DC	W4	W4	--	--	--
60 V DC	--	--	--	--	--
110 V DC	F4	F4	--	--	F4
125 V DC	G4	G4	--	--	--
220 V DC	M4	M4	--	--	--
230 V DC	P4	--	--	--	--

Examples

AC operation	3RT2325-1AP00 3RT2325-1AG20	Contactors with screw terminals; with solenoid coil for 50 Hz for rated control supply voltage of 230 V AC Contactors with screw terminals; with solenoid coil for 50/60 Hz for rated control supply voltage of 110 V AC
DC operation	3RT2526-2BB40 3RT2526-2BG40	Contactors with spring-loaded terminals; for rated control supply voltage of 24 V DC Contactors with spring-loaded terminals; for rated control supply voltage of 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 and Catalog KT 10.1.

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 ,
- Sizes S0 to S3:
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 $U_{s \min}$ to $U_{s \max}$ ¹⁾	Contactor type	3RT2.2.-N	Rated control supply voltage $U_{s \min}$ to $U_{s \max}$ ¹⁾	Contactor type	3RT2.3.-N	3RT2.4.-N
	Size	S0		Size	S2	S3

Sizes S0 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	P3	83 ... 155 V AC/DC	F3	F3
		175 ... 280 V AC/DC	P3	P3

¹⁾ Coil operating range: 0.8 x $U_{s \min}$ to 1.1 x $U_{s \max}$.

Switching devices – Contactors and contactor assemblies – Special applications

Contactors for special applications

SIRIUS 3RT23 to 3RT26, 3RT14 contactors

Rated control supply voltages for 3RT14 contactors, possible on request (change of the 10th and 11th digits of the Article No.)

Delivery time on request

Rated control supply voltage	Contactor type 3RT145.-A, 3RT146.-A, 3RT147.-A	Rated control supply voltage	Contactor type 3RT145.-N, 3RT146.-N, 3RT147.-N	3RT145.-P, 3RT145.-S, 3RT146.-S, 3RT146.-P, 3RT147.-P, 3RT147.-S
$U_{s \min}$ to $U_{s \max}$	Sizes S6 to S12	$U_{s \min}$ to $U_{s \max}$	Sizes S6 to S12	

Sizes S6 to S12

AC/DC operation (50/60 Hz AC or DC) and operating range $0.8 \times U_{s \min}$ to $1.1 \times U_{s \max}$

Standard operating mechanism

23 ... 26 V AC/DC	B3
42 ... 48 V AC/DC	D3
110 ... 127 V AC/DC	F3
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

Solid-state operating mechanism

21 ... 27.3 V AC/DC	B3	--
96 ... 127 V AC/DC	F3	F3
200 ... 277 V AC/DC	P3	P3