SIEMENS

Data sheet 3RT2017-1AK62



CONTACTOR, AC-3, 5.5KW/400V, 1NC, AC110V 50HZ, 120V 60HZ 3-POLE, SZ S00 SCREW TERMINAL

product brand name	SIRIUS
Product designation	3RT2 contactor

General technical data:			
Insulation voltage			
Rated value	V	690	
Degree of pollution		3	
Surge voltage resistance Rated value	kV	6	
Mechanical service life (switching cycles)			
 of the contactor typical 		30 000 000	
 of the contactor with added electronics- compatible auxiliary switch block typical 		5 000 000	
 of the contactor with added auxiliary switch block typical 		10 000 000	
Thermal short-time current restricted to 10 s	Α	90	
Protection class IP			
• on the front		IP20	
of the terminal		IP20	
Equipment marking			
● acc. to DIN EN 61346-2		Q	
● acc. to DIN EN 81346-2		Q	

Main circuit:	
Number of poles for main current circuit	3
Number of NC contacts for main contacts	0
Number of NO contacts for main contacts	3
Operating voltage	

Operating ourrent • at AC-1 — at 400 V at ambient temperature 40 °C A 22 Rated value — up to 690 V at ambient temperature 40 °C A 22 Rated value — up to 690 V at ambient temperature 60 °C A 20 Rated value — at 600 V Rated value A 12 • at AC-2 — at 400 V Rated value A 12 — at 400 V Rated value A 9.2 — at 600 V Rated value A 6.7 • at AC-4 at 400 V Rated value A 6.7 • at AC-4 at 400 V Rated value A 8.5 Operating current with 1 current path • at DC-1 A 20 — at 110 V Rated value A 2.1 A 8.5 Operating current with 2 V Rated value A 0.8 A 2.0 • at DC-3 at DC-5 — at 24 V Rated value A 0.6 A 2.0 • at DC-1 — at 24 V Rated value A 2.0 A 1.1 • at DC-1 — at 220 V Rated value A 1.6 A	 at AC-3 Rated value maximum 	V	690
— at 400 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value • at AC-2 at 400 V Rated value • at AC-3 — at 400 V Rated value — at 590 V Rated value — at 590 V Rated value — at 690 V Rated value — at 690 V Rated value — at 690 V Rated value — at 10 V Rated value — at 110 V Rated value — at 110 V Rated value — at 440 V Rated value — at 440 V Rated value — at 440 V Rated value — at 100 V Rated value — at 110 V Rated value — at 24 V Rated value — at 110 V Rated value — at 24 V Rated value — at 25 V Rated value — at 26 V Rated value — at 27 V Rated value — at	Operating current		
Rated value — up to 690 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value • at AC-2 at 400 V Rated value • at AC-3 — at 400 V Rated value — at 590 V Rated value — at 590 V Rated value — at 690 V Rated value — at 690 V Rated value — at 690 V Rated value — at 24 V Rated value - at 24 V Rated value — at 110 V Rated value — at 120 V Rated value — at 440 V Rated value — at 440 V Rated value — at 440 V Rated value — at 24 V Rated value — at 20 V Rated value — at 400 V Rated value — at 20 V Rated value — at 10 V Rated value — at 110 V Rated value — at 220 V Rated value	• at AC-1		
Rated value — up to 690 V at ambient temperature 60 °C Rated value • at AC-2 at 400 V Rated value • at AC-3 — at 400 V Rated value — at 500 V Rated value — at 500 V Rated value — at 690 V Rated value — at 690 V Rated value • at AC-4 at 400 V Rated value A 8.5 Operating current with 1 current path • at DC-1 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 600 V Rated value — at 110 V Rated value — at 220 V Rated value — at 24 V Rated value — at 220 V Rated value		А	22
Rated value • at AC-2 at 400 V Rated value • at AC-2 at 400 V Rated value • at AC-3 — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value — at 690 V Rated value — at 690 V Rated value A 6.7 • at AC-4 at 400 V Rated value A 8.5 Operating current with 1 current path • at DC-1 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 440 V Rated value — at 440 V Rated value — at 600 V Rated value — at 10 C-3 at DC-5 — at 24 V Rated value — at 110 V Rated value — at 20 V Rated value — at 110 V Rated value — at 20 V Rated value		Α	22
• at AC-3 — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value A 9.2 — at 690 V Rated value A 8.5 Operating current with 1 current path • at DC-1 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 440 V Rated value — at 600 V Rated value — at 600 V Rated value — at 600 V Rated value — at 700 V Rated value — at 110 V Rated value — at 220 V Rated value — at 220 V Rated value — at 24 V Rated value — at 24 V Rated value — at 20 V Rated value — at 24 V Rated value — at 20 V Ra		Α	20
- at 400 ∨ Rated value	• at AC-2 at 400 V Rated value	Α	12
— at 500 ∨ Rated value — at 690 ∨ Rated value A 6.7 • at AC-4 at 400 ∨ Rated value A 8.5 Operating current with 1 current path • at DC-1 — at 24 ∨ Rated value A 2.1 — at 220 ∨ Rated value A 0.6 — at 440 ∨ Rated value A 0.6 — at 440 ∨ Rated value A 0.6 — at 600 ∨ Rated value A 0.6 • at DC-3 at DC-5 — at 24 ∨ Rated value A 0.1 Operating current with 2 current paths in series • at DC-1 — at 24 ∨ Rated value A 1.6 — at 440 ∨ Rated value A 0.1 Operating current with 2 current paths in series • at DC-1 — at 24 ∨ Rated value A 1.6 — at 440 ∨ Rated value A 1.6 — at 440 ∨ Rated value A 0.8 — at 110 ∨ Rated value A 0.8 — at 20 ∨ Rated value A 0.7 • at DC-3 at DC-5 — at 110 ∨ Rated value A 0.35 — at 24 ∨ Rated value A 0.0 Operating current with 3 current paths in series • at DC-1 — at 24 ∨ Rated value A 20 — at 220 ∨ Rated value A 20 — at 440 ∨ Rated value A 2	• at AC-3		
— at 690 ∨ Rated value A 8.5 Operating current with 1 current path • at DC-1 — at 24 ∨ Rated value A 20 — at 110 ∨ Rated value A 2.1 — at 220 ∨ Rated value A 0.6 — at 440 ∨ Rated value A 0.6 — at 40 ∨ Rated value A 0.6 — at 500 ∨ Rated value A 0.6 — at 220 ∨ Rated value A 0.6 — at 110 ∨ Rated value A 0.6 • at DC-3 at DC-5 — at 24 ∨ Rated value A 0.1 Operating current with 2 current paths in series • at DC-1 — at 24 ∨ Rated value A 1.6 — at 440 ∨ Rated value A 1.6 — at 440 ∨ Rated value A 1.6 — at 440 ∨ Rated value A 0.8 — at 220 ∨ Rated value A 0.7 • at DC-3 at DC-5 — at 110 ∨ Rated value A 0.8 — at 440 ∨ Rated value A 0.8 — at 24 ∨ Rated value A 0.7 • at DC-3 at DC-5 — at 110 ∨ Rated value A 0.7 • at DC-3 at DC-5 — at 110 ∨ Rated value A 0.35 — at 24 ∨ Rated value A 0.35 — at 24 ∨ Rated value A 20 Operating current with 3 current paths in series • at DC-1 — at 24 ∨ Rated value A 20 — at 220 ∨ Rated value A 20 — at 24 ∨ Rated value A 20 — at 24 ∨ Rated value A 20 — at 220 ∨ Rated value A 20 — at 24 ∨ Rated value A 20 — at 220 ∨ Rated value A 20 — at 24 ∨ Rated value A 20 — at 220 ∨ Rated value A 20 — at 24 ∨ Rated value A 20 — at 440 ∨ Rated value A 20 — at 440 ∨ Rated value A 20 — at 440 ∨ Rated value A 20	— at 400 V Rated value	Α	12
■ at AC-4 at 400 V Rated value Operating current with 1 current path ■ at DC-1 — at 24 V Rated value — at 110 V Rated value — at 440 V Rated value — at 440 V Rated value — at 600 V Rated value — at 600 V Rated value — at 100 V Rated value — at 100 V Rated value — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 110 V Rated value — at 20 V Rated value — at 20 V Rated value — at 440 V Rated value — at 440 V Rated value — at 40 V Rated value — at 40 V Rated value — at 220 V Rated value — at 24 V Rated value — at 220 V Rated value — at 440 V Rated value — at 220 V Rated value — at 440 V Rated value	— at 500 V Rated value	Α	9.2
Operating current with 1 current path ■ at DC-1 A 20 2.1 A 2.1 A 2.1 A 0.8 A 0.8 A 0.8 A 0.6 A 0.1 O 0.6 A 0.1 A 0.1 A 0.1 O 0.1	— at 690 V Rated value	Α	6.7
• at DC-1 — at 24 V Rated value — at 110 V Rated value A 2.1 — at 220 V Rated value A 0.8 — at 440 V Rated value A 0.6 — at 600 V Rated value A 0.6 • at DC-3 at DC-5 — at 24 V Rated value A 0.1 Operating current with 2 current paths in series • at DC-1 — at 220 V Rated value A 1.6 — at 440 V Rated value A 0.8 — at 400 V Rated value A 0.8 — at 20 V Rated value A 1.6 — at 440 V Rated value A 0.7 • at DC-3 at DC-5 — at 110 V Rated value A 0.8 — at 320 V Rated value A 0.7 • at DC-3 at DC-5 — at 110 V Rated value A 0.7 • at DC-3 at DC-5 — at 110 V Rated value A 0.7 • at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 20 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 — at 20 V Rated value A 20 — at 440 V Rated value A 20	• at AC-4 at 400 V Rated value	Α	8.5
- at 24 V Rated value	Operating current with 1 current path		
	• at DC-1		
— at 220 V Rated value — at 440 V Rated value A 0.6 — at 600 V Rated value A 0.6 • at DC-3 at DC-5 — at 24 V Rated value A 0.1 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 1.6 — at 110 V Rated value A 1.6 — at 440 V Rated value A 0.7 • at DC-3 at DC-5 — at 110 V Rated value A 1.6 — at 440 V Rated value A 0.8 — at 600 V Rated value A 0.7 • at DC-3 at DC-5 — at 110 V Rated value A 0.7 • at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 20 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 20 V Rated value A 20 — at 20 V Rated value A 20 — at 20 V Rated value A 20 — at 440 V Rated value A 20	— at 24 V Rated value	Α	20
— at 440 V Rated value — at 600 V Rated value • at DC-3 at DC-5 — at 24 V Rated value A 0.1 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 12 — at 110 V Rated value A 12 — at 110 V Rated value A 12 — at 220 V Rated value A 1.6 — at 440 V Rated value A 0.8 — at 600 V Rated value A 0.7 • at DC-3 at DC-5 — at 110 V Rated value A 0.7 • at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 0.35 — at 24 V Rated value A 20 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 — at 20 V Rated value A 20 — at 440 V Rated value A 1.3	— at 110 V Rated value	Α	2.1
- at 600 V Rated value • at DC-3 at DC-5 — at 24 V Rated value A — at 110 V Rated value A Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A — at 110 V Rated value A — at 110 V Rated value A — at 220 V Rated value A — at 440 V Rated value A — at 600 V Rated value A • at DC-3 • at DC-5 — at 110 V Rated value A — at 24 V Rated value A • at DC-3 at DC-5 — at 110 V Rated value A — at 24 V Rated value A Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A — at 20 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A — at 20 — at 20 V Rated value A — at 110 V Rated value A — at 20 — at 20 V Rated value A — at 110 V Rated value A — at 20 V Rated value A — at 20 V Rated value A — at 20 V Rated value A — at 440 V Rated value A — at 20 V Rated value A — at 440 V Rated value A — at 1.3	— at 220 V Rated value	Α	0.8
at DC-3 at DC-5 — at 24 V Rated value — at 110 V Rated value A Derating current with 2 current paths in series at DC-1 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 440 V Rated value — at 600 V Rated value — at 110 V Rated value A A A D.7 at DC-3 at DC-5 — at 110 V Rated value A A O.7 at DC-3 at DC-5 — at 24 V Rated value A A D.35 — at 24 V Rated value A A Doperating current with 3 current paths in series at DC-1 — at 24 V Rated value A A Derating current with 3 current paths in series at DC-1 — at 24 V Rated value — at 24 V Rated value — at 24 V Rated value A A 20 — at 110 V Rated value A A 20 — at 440 V Rated value A A 20 — at 440 V Rated value A A 20 — at 440 V Rated value A A A 20 — at 440 V Rated value A A 20 — at 440 V Rated value A A 20 — at 440 V Rated value A A 20 — at 440 V Rated value A A 20 — at 440 V Rated value A A 20 — at 440 V Rated value A A 20 — at 440 V Rated value A A 20 — at 440 V Rated value A A 20 — at 440 V Rated value A 30 A 30 A 30	— at 440 V Rated value	Α	0.6
at 24 V Rated value at 110 V Rated value A 0.1 Operating current with 2 current paths in series ■ at DC-1 at 24 V Rated value A 12 at 110 V Rated value A 1.6 at 440 V Rated value A 0.8 at 600 V Rated value A 0.7 ■ at DC-3 at DC-5 at 110 V Rated value A 0.35 at 24 V Rated value A 0.0 Operating current with 3 current paths in series ■ at DC-1 at 24 V Rated value A 20 Operating current with 3 current paths in series ■ at DC-1 at 24 V Rated value A 20 at 110 V Rated value A 20 at 110 V Rated value A 20 at 220 V Rated value A 20 at 440 V Rated value A 3 3	— at 600 V Rated value	Α	0.6
— at 110 V Rated value A 0.1 Operating current with 2 current paths in series ● at DC-1 — at 24 V Rated value A 12 — at 220 V Rated value A 1.6 — at 440 V Rated value A 0.8 — at 600 V Rated value A 0.7 ● at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 20 Operating current with 3 current paths in series ● at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 110 V Rated value A 20 — at 110 V Rated value A 20 — at 220 V Rated value A 20 — at 440 V Rated value A 1.3	• at DC-3 at DC-5		
Operating current with 2 current paths in series ● at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 12 — at 220 V Rated value A 0.8 — at 440 V Rated value A 0.7 ● at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 20 Operating current with 3 current paths in series ● at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 220 V Rated value A 20 — at 440 V Rated value A 20	— at 24 V Rated value	Α	20
■ at DC-1 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 440 V Rated value — at 600 V Rated value — at 600 V Rated value — at 110 V Rated value — at 110 V Rated value — at 24 V Rated value — at 440 V Ra	— at 110 V Rated value	Α	0.1
- at 24 V Rated value - at 110 V Rated value - at 220 V Rated value - at 440 V Rated value - at 600 V Rated value - at 100 V Rated value - at 100 V Rated value - at 110 V Rated value - at 24 V Rated value - at 250 V Rated value - at 250 V Rated value - at 350 V Rated value	Operating current with 2 current paths in series		
- at 110 V Rated value	• at DC-1		
 — at 220 V Rated value — at 440 V Rated value — at 600 V Rated value — at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value — at DC-1 — at 24 V Rated value — at 24 V Rated value — at 24 V Rated value — at 20 — at 24 V Rated value — at 24 V Rated value — at 20 — at 110 V Rated value — at 220 V Rated value — at 440 V Rated value — at 440 V Rated value A 1.3 	— at 24 V Rated value	Α	20
 — at 440 V Rated value — at 600 V Rated value A 0.7 ● at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value A 20 Operating current with 3 current paths in series ● at DC-1 — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 220 V Rated value — at 220 V Rated value — at 440 V Rated value A 20 — at 440 V Rated value A 1.3 	— at 110 V Rated value	Α	12
 — at 600 V Rated value ● at DC-3 at DC-5 — at 110 V Rated value — at 24 V Rated value A 20 Operating current with 3 current paths in series ● at DC-1 — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 220 V Rated value — at 440 V Rated value A 20 — at 440 V Rated value A 1.3 	— at 220 V Rated value	Α	1.6
■ at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 20 Operating current with 3 current paths in series ■ at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 110 V Rated value A 20 — at 440 V Rated value A 1.3	— at 440 V Rated value	Α	0.8
— at 110 V Rated value A 0.35 — at 24 V Rated value A 20 Operating current with 3 current paths in series • at DC-1 — — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 220 V Rated value A 20 — at 440 V Rated value A 1.3	— at 600 V Rated value	Α	0.7
 — at 24 V Rated value A 20 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 220 V Rated value — at 440 V Rated value A 1.3 	• at DC-3 at DC-5		
Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value — at 110 V Rated value A 20 — at 220 V Rated value A 20 — at 440 V Rated value A 1.3	— at 110 V Rated value	Α	0.35
 at DC-1 at 24 V Rated value at 110 V Rated value at 220 V Rated value at 440 V Rated value A 20 A 20 A 20 A 1.3 	— at 24 V Rated value	Α	20
— at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 220 V Rated value A 20 — at 440 V Rated value A 1.3	Operating current with 3 current paths in series		
— at 110 V Rated value A 20 — at 220 V Rated value A 20 — at 440 V Rated value A 1.3	• at DC-1		
 — at 220 V Rated value — at 440 V Rated value A 1.3 	— at 24 V Rated value	Α	20
— at 440 V Rated value A 1.3	— at 110 V Rated value	Α	20
	— at 220 V Rated value	Α	20
— at 600 V Rated value A 1	— at 440 V Rated value	Α	1.3
	— at 600 V Rated value	Α	1

• at DC-3 at DC-5	
— at 110 V Rated value A 2	20
— at 220 V Rated value A 1	1.5
— at 24 V Rated value A 2	20
— at 440 V Rated value A 0	0.2
— at 600 V Rated value A 0	0.2
Operating power	
• at AC-1 at 400 V Rated value kW 1	13
• at AC-2 at 400 V Rated value kW 5	5.5
at AC-4 at 400 V Rated value kW 4	4
Operating power	
• at AC-1	
— at 230 V at 60 °C Rated value kW 7	7.5
— at 230 V Rated valuekW7	7.5
— at 400 V at 60 °C Rated value kW 1	13
— at 690 V at 60 °C Rated value kW 2	22
— at 690 V Rated value kW 2	22
• at AC-3	
— at 230 V Rated value kW 3	3
— at 400 V Rated value kW 5	5.5
— at 690 V Rated value kW 5	5.5
Operating power for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value kW 2	2
at 690 V Rated value	2.5
Operating frequency	
• at AC-3 maximum 1/h 7	750
Control circuit/ Control:	
	AC
Control supply voltage with AC	
• at 50 Hz Rated value V 1	110
at 60 Hz Rated value V 1	120
Operating range factor control supply voltage rated	
value of the magnet coil with AC	
	0.8 1.1
• at 60 Hz	0.85 1.1
Auxiliary circuit:	
Number of NC contacts	
• for auxiliary contacts	
— instantaneous contact	1
Number of NO contacts	

for auxiliary contacts		
— instantaneous contact		0
Product expansion Auxiliary switch		Yes
Operating current at AC-15		
• at 230 V Rated value	Α	10
• at 400 V Rated value	Α	3
• at 690 V Rated value	Α	1
Operating current		
• at DC-12 at 125 V Rated value	Α	2
• at DC-12 at 220 V Rated value	Α	1
• at DC-12 at 600 V Rated value	Α	0.15
• at DC-13 at 125 V Rated value	Α	0.9
• at DC-13 at 220 V Rated value	Α	0.3
• at DC-13 at 600 V Rated value	Α	0.1
Operating current		
• at DC-12		
— at 60 V Rated value	Α	6
— at 110 V Rated value	Α	3
• at DC-13		
— at 24 V Rated value	Α	10
— at 60 V Rated value	Α	2
— at 110 V Rated value	Α	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
JL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	11
• at 600 V Rated value	Α	11
yielded mechanical performance [hp]		
 for single-phase AC motor at 110/120 V Rated value 	metric hp	0.5
 for single-phase AC motor at 230 V Rated value 	metric hp	2
• for three-phase AC motor at 200/208 V Rated value	metric hp	3
• for three-phase AC motor at 220/230 V Rated value	metric hp	3
• for three-phase AC motor at 460/480 V Rated value	metric hp	7.5
• for three-phase AC motor at 575/600 V Rated	metric	10

Short-circuit:

Contact rating of the auxiliary contacts acc. to UL

A600 / Q600

hp

Design of the fuse link

- for short-circuit protection of the main circuit
 - with type of assignment 1 required
 - with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A

fuse gL/gG: 10 A

nstallation/ mounting/ dimensions:			
mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface	
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022	
 Side-by-side mounting 		Yes	
Height	mm	57.5	
Width	mm	45	
Depth	mm	73	
Required spacing			
with side-by-side mounting			
— forwards	mm	0	
— Backwards	mm	0	
— upwards	mm	0	
— downwards	mm	0	
— at the side	mm	0	
• for grounded parts			
— forwards	mm	0	
— Backwards	mm	0	
— upwards	mm	0	
— at the side	mm	6	
— downwards	mm	0	
• for live parts			
— forwards	mm	0	
— Backwards	mm	0	
— upwards	mm	0	
— downwards	mm	0	
— at the side	mm	6	

Connections/ Terminals:	
Type of electrical connection	
for main current circuit	screw-type terminals

• for auxiliary and control current circuit screw-type terminals

Type of connectable conductor cross-section

• for main contacts		
 single or multi-stranded 		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for main contacts 		2x (20 16), 2x (18 14), 2x 12
• for auxiliary contacts		
 single or multi-stranded 		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 16), 2x (18 14), 2x 12
Apparent pick-up power of the magnet coil with AC		
● at 50 Hz	V·A	37
● at 60 Hz	V·A	33
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	%	40
• with high demand rate acc. to SN 31920	%	73
Failure rate [FIT] with low demand rate acc. to SN	FIT	100

• with high demand rate acc. to SN 31920	/0	15
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	100
Product function Mirror contact acc. to IEC 60947-4-1		Yes
T1 value for proof test interval or service life acc. to IEC 61508	У	20
Protection against electrical shock		finger-safe
Mechanical data:		

Size of contactor		S00
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
during operation	°C	-25 + 60
during storage	°C	-55 + 80

Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Type Examination



16	St			
_			ı	

Shipping Approval

Certificates

Special Test Certificate

Shipping Approval







other



GL





LRS







Environmental Confirmations

Confirmation



Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT20171AK62}}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RT20171AK62/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT20171AK62&lang=en



