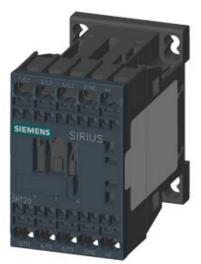
# **SIEMENS**

Data sheet 3RT2016-2AF02



CONTACTOR, AC-3, 4KW/400V, 1NC, AC110V, 50/60 HZ, 3-POLE, SZ S00 SPRING-LOADED 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)		
<ul> <li>of the contactor typical</li> </ul>		30 000 000
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>		5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>		10 000 000
Thermal short-time current restricted to 10 s	Α	72
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 current              ■ at AC-1             — 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             — up to 690 V at ambient temperature 60 °C             Rated value             — at 400 V Rated value             — at 400 V Rated value             — at 500 V Rated value             — at 690 V Rated value             — at 10 C-1             — at 24 V Rated value             — at 110 V Rated value             — at 220 V Rated value             — at 220 V Rated value             — at 240 V Rated value             — at 690 V Rated value             — at 690 V Rated value             — at 10 C-3             — at 24 V Rated value             — at 10 V Rated value             — at 24 V Rated value             — at 690 V Rated value             — at 24 V Rated value             — at 24 V Rated value             — at 10 C-3             — at 24 V Rated value             — at 10 V Rated value             — at 10 V Rated value             — at 110 V Rated value             — at 110 V Rated value             — at 24 V Rated value             — at 24 V Rated value             — at 20 V	• 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 500 V Rated value  — at 690 V Rated value  — at 690 V Rated value  • at AC-4 at 400 V Rated value  • at DC-1  — at 24 V Rated value  — at 110 V Rated value  — at 440 V Rated value  — at 440 V Rated value  • at BC-3 at DC-5  — at 24 V Rated value  — at 110 V Rated value  — at 110 V Rated value  — at 110 V Rated value  • at DC-1  — at 24 V Rated value  — at 110 V Rated value  — at 120 V Rated value  — at 24 V Rated value  — at 120 V Rated value  — at 24 V Rated value  — at 20 V Rated value  — at 20 V Rated value  — at 24 V Rated value  — at 20 V Rated value  —	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-3 • at 400 V Rated value — at 500 V Rated value — at 500 V Rated value — at 690 V Rated value — A 6.7 • at AC-4 at 400 V Rated value — at 10C-1 — at 24 V Rated value — at 110 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 600 V Rated value — at 10C-3 — at 24 V Rated value — at 10V Rated value — at 110 V Rated value — at 220 V Rated value — at 10C-3 — at 24 V Rated value — at 220 V Rated value — at 240 V Rated valu	• 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-2 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  • at AC-4 at 400 V Rated value  • at AC-4 at 400 V Rated value  — at 24 V Rated value  — at 24 V Rated value  — at 220 V Rated value  — at 220 V Rated value  — at 600 V Rated value  — at 200 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 24 V Rated value  — at 110 V Rated value  — at 110 V Rated value  — at 110 V Rated value  — at 24 V Rated value  — at 24 V Rated value  — at 200 V Rated value  — at 200 V Rated value  — at 110 V Rated value  — at 200 V Rated value  — at 24 V Rated value  — at 200 V Rated	•	Α	22
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 500 V Rated value  A 6.7  - 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  — at 24 V Rated value  — at 110 V Rated value  A 0.6  • at 0-3 at DC-5  — at 24 V Rated value  — at 110 V Rated value  A 0.6  • at DC-3  — at 24 V Rated value  — at 110 V Rated value  — at 110 V Rated value  — at 110 V Rated value  A 0.6  • at DC-3  — at 24 V Rated value  — at 110 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  — at 110 V Rated value  — at 110 V Rated value  A 1.6  — at 220 V Rated value  — at 600 V Rated value  A 1.6  — at 600 V Rated value  A 0.8  — at 10 V Rated value  A 0.8  — at 20  — at 110 V Rated value  A 0.8  — at 20  • at DC-3 at DC-5  — at 110 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  — at 24 V Rated value  A 0.35  — at 110 V Rated value  — at 24 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 24 V Rated value  A 20  Operating current with 3 current paths in series  • at DC-1  — at 24 V Rated value  — at 24 V Rated value  — at 20 V Rated value  A 20  Operating current with 3 current paths in series  • at DC-1  — at 24 V Rated value  — at 20 V Rated value  A 20  — at 20 V Rated value		Α	22
		Α	20
- at 400 V Rated value - at 500 V Rated value - at 690 V Rated value	• at AC-2 at 400 V Rated value	Α	9
- at 500 ∨ Rated value	• at AC-3		
— 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 1110 V Rated value — at 440 V Rated value — at 220 V Rated value — at 440 V Rated value — at 440 V Rated value — at 600 V Rated value — at 110 V Rated value — at 24 V Rated value — at 24 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 440 V Rated value — at 500 V Rated value — at 600 V Rated value — at 110 V Rated value — at 24 V Rated value — at 250 V Rated value	— at 400 V Rated value	Α	9
• 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 100 V Rated value — at 110 V Rated value — at 110 V Rated value — at 24 V Rated value — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 110 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 — at 24 V Rated value — at 220 V Rated value — at 440 V Rated value	— at 500 V Rated value	Α	7.7
Operating current with 1 current path          • at DC-1 <ul></ul>	— at 690 V Rated value	Α	6.7
■ 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 220 V Rated value     — at 24 V Rated value     — at 110 V Rated value     — at 110 V Rated value     — at 24 V Rated value     — at 24 V Rated value     — at 24 V Rated value     — at 220 V Rated value     — at 24 V Rated value     — at 24 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 110 V Rated value     — at 110 V Rated value     — at 24 V Rated value     — at 110 V Rated value     — at 24 V Rated value     — at 22 V Rated value     — at 24 V Rated value     — at 24 V Rated value     — at 22 V Rated value     — at 22 V Rated value     — at 22 V Rated value     — at 320 V Rated value     — at 440 V Rated value	• at AC-4 at 400 V Rated value	Α	8.5
at 24 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 224 V Rated value A 0.6 at 110 V Rated value A 0.6 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 20 at 110 V Rated value A 12 at 220 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 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 22 V Rated value A 20  Operating current with 3 current paths in series  ■ at DC-1 at 22 V Rated value A 20 at 220 V Rated value A 20 at 440 V Rated value A 20	Operating current with 1 current path		
— at 110 V Rated value A 0.8 — 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 24 V Rated value A 20 — at 110 V Rated value A 20 — at 110 V Rated value A 12 — at 220 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 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 220 V Rated value A 20 — at 240 V Rated value A 20 — at 440 V Rated value A 20	• at DC-1		
- at 220 V Rated value	— at 24 V Rated value	Α	20
— 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 20  — at 110 V Rated value A 12  — at 220 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 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 24 V Rated value A 20	— at 110 V Rated value	Α	2.1
— at 600 ∨ Rated value  • at DC-3 at DC-5  — at 24 ∨ Rated value A  — at 110 ∨ Rated value A  Operating current with 2 current paths in series  • at DC-1  — at 24 ∨ Rated value A  — at 110 ∨ Rated value A  — at 110 ∨ Rated value A  — at 220 ∨ Rated value A  — at 220 ∨ Rated value A  — at 440 ∨ Rated value A  — at 600 ∨ Rated value A  • at DC-3  • at DC-5  — at 110 ∨ Rated value A  O.7  • at DC-3  — at 24 ∨ Rated value A  O.7  • at DC-3  — at 24 ∨ Rated value A  Operating current with 3 current paths in series  • at DC-1  — at 24 ∨ Rated value A  — at 110 ∨ Rated value A  Operating current with 3 current paths in series  • at DC-1  — at 24 ∨ Rated value A  A  20  — at 110 ∨ Rated value A  A  A  A  A  A  A  A  A  A  A  A  A	— at 220 V Rated value	Α	0.8
• at DC-3 at DC-5 — at 24 V Rated value A 20 — 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 20 — 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 0.35 — 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 220 V Rated value A 20 — at 440 V Rated value A 1.3	— at 440 V Rated value	Α	0.6
at 24 ∨ Rated value A 0.1  Operating current with 2 current paths in series  • at DC-1  at 24 ∨ Rated value A 20  at 110 ∨ Rated value A 12  at 220 ∨ Rated value A 1.6  at 440 ∨ Rated value A 0.8  at 600 ∨ Rated value A 0.7  • at DC-3 at DC-5  at 110 ∨ 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  Operating current with 3 current paths in series  • at DC-1  at 24 ∨ Rated value A 20  at 110 ∨ Rated value A 20	— at 600 V Rated value	Α	0.6
— at 110 ∨ Rated value A 0.1  Operating current with 2 current paths in series  • at DC-1  — at 24 ∨ Rated value A 12  — at 220 ∨ Rated value A 1.6  — at 440 ∨ Rated value A 0.8  — at 600 ∨ Rated value A 0.7  • at DC-3 at DC-5  — at 110 ∨ 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  Operating current with 3 current paths in series  • at DC-1  — at 24 ∨ Rated value A 20  — at 110 ∨ Rated value A 20  — at 110 ∨ Rated value A 20  — at 440 ∨ 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       20         — at 24 V Rated value       A       20         Operating current with 3 current paths in series       • at DC-1       A       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       20         — at 440 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 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 220 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	0.1
- 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     - 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 25 V Rated value     - at 27 V Rated value     - at 28 V Rated value     - at 29 V Rated value     - at 440 V Rated value	Operating current with 2 current paths in series		
— 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 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 440 V Rated value       A       1.3	• at DC-1		
- at 220 V Rated value A D.8 A 0.8 A 0.7  ■ at DC-3 at DC-5 A 110 V Rated value A 0.35 A 20  Operating current with 3 current paths in series  ■ at DC-1 A A 20 A	— at 24 V Rated value	Α	20
— 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 220 V Rated value       A       20         — at 440 V Rated value       A       1.3	— at 110 V Rated value	Α	12
<ul> <li>— at 600 V Rated value</li> <li>♠ at DC-3 at DC-5</li> <li>— at 110 V Rated value</li> <li>— at 24 V Rated value</li> <li>♠ at DC-1</li> <li>— at 24 V Rated value</li> <li>♠ at DC-1</li> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>— at 440 V Rated value</li> <li>A 1.3</li> </ul>	— at 220 V Rated value	Α	1.6
<ul> <li>at DC-3 at DC-5         <ul> <li>at 110 V Rated value</li> <li>A 0.35</li> <li>at 24 V Rated value</li> </ul> </li> <li>Operating current with 3 current paths in series         <ul> <li>at DC-1</li> <li>at 24 V Rated value</li> <li>at 110 V Rated value</li> <li>at 220 V Rated value</li> <li>at 220 V Rated value</li> <li>at 440 V Rated value</li> <li>A 1.3</li> </ul> </li> </ul>	— 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
<ul> <li>— at 24 V Rated value</li> <li>A 20</li> <li>Operating current with 3 current paths in series</li> <li>● at DC-1</li> <li>— at 24 V Rated value</li> <li>— at 110 V Rated value</li> <li>— at 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>A 20</li> <li>— at 440 V Rated value</li> <li>A 1.3</li> </ul>	• 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  — 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	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  — at 440 V Rated value  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		
<ul> <li>— at 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>A 1.3</li> </ul>	— 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

a -4 DO 2 -4 DO 5		
• at DC-3 at DC-5	۸	20
— at 110 V Rated value	A	20
— at 220 V Rated value	A	1.5
— at 24 V Rated value	A	20
— at 440 V Rated value	Α	0.2
— at 600 V Rated value	A	0.2
Operating power		
• at AC-1 at 400 V Rated value	kW	13
• at AC-2 at 400 V Rated value	kW	4
• at AC-4 at 400 V Rated value	kW	4
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	7.5
— at 230 V Rated value	kW	7.5
— at 400 V at 60 °C Rated value	kW	13
— at 690 V at 60 °C Rated value	kW	22
— at 690 V Rated value	kW	22
• at AC-3		
— at 230 V Rated value	kW	2.2
— at 400 V Rated value	kW	4
— at 690 V Rated value	kW	5.5
Operating power for ≥ 200000 operating cycles at AC-4		
• at 400 V Rated value	kW	2
• at 690 V Rated value	kW	2.5
Operating frequency	_	
• at AC-3 maximum	1/h	750
Control circuit/ Control:		
Type of voltage of the control supply voltage		AC
Control supply voltage with AC		
● at 50 Hz Rated value	V	110
• at 60 Hz Rated value	V	110
Operating range factor control supply voltage rated		
value of the magnet coil with AC		
● at 50 Hz		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)
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	7.6
● at 600 V Rated value	Α	9
yielded mechanical performance [hp]		
<ul> <li>for single-phase AC motor at 110/120 V Rated value</li> </ul>	metric hp	0.33
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	1
• for three-phase AC motor at 200/208 V Rated	metric	2

● at 600 V Rated value	Α	9
yielded mechanical performance [hp]		
<ul> <li>• for single-phase AC motor at 110/120 V Rated value</li> </ul>	metric hp	0.33
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	1
<ul> <li>for three-phase AC motor at 200/208 V Rated value</li> </ul>	metric hp	2
● 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	5
• for three-phase AC motor at 575/600 V Rated value	metric hp	7.5
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600

Short-circuit:

### 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:

gL/gG LV HRC 3NA, DIAZED 55B, NEOZED 55E 20 A

fuse gL/gG: 10 A

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	69.5
Width	mm	45
Depth	mm	73
Required spacing		
<ul><li>with side-by-side mounting</li></ul>		
— 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	
<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals
Type of connectable conductor cross-section	

• for main contacts		
— single or multi-stranded		2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 2.5 mm²)
— finely stranded without core end		2x (0.5 2.5 mm²)
processing		
<ul> <li>for AWG conductors for main contacts</li> </ul>		2x (20 12)
• for auxiliary contacts		
<ul> <li>single or multi-stranded</li> </ul>		2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 2.5 mm²)
— finely stranded without core end		2x (0.5 2.5 mm²)
processing		2(2042)
• for AWG conductors for auxiliary contacts		2x (20 12)
Apparent pick-up power of the magnet coil with AC	V·A	27
• at 50 Hz	V·A V·A	
● at 60 Hz	V-A	31.7
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	40
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	%	73
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		
<ul><li>during operation</li></ul>	°C	-25 +60
during storage	°C	-55 <b>+</b> 80
Certificates/ approvals:		

#### **General Product Approval**

**Functional** Safety/Safety of Machinery

**Declaration of** Conformity









Type Examination



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**Shipping Approval** 

## Certificates

**Special Test** Certificate











GL

### **Shipping Approval**

other





Environmental Confirmations











### 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

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20162AF02

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

http://support.automation.siemens.com/WW/view/en/3RT20162AF02/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=3RT20162AF02&lang=en

