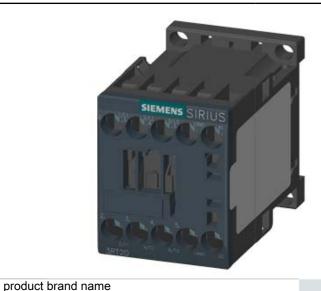
# **SIEMENS**

Data sheet 3RT2018-1AH01



CONTACTOR, AC-3, 7.5KW/400V, 1NO, AC 48V, 50/60 HZ, 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)		
<ul> <li>of the contactor typical</li> </ul>		30 000 000
• of the contactor with added electronics-		5 000 000
compatible auxiliary switch block typical		
<ul> <li>of the contactor with added auxiliary switch</li> </ul>		10 000 000
block typical		
Thermal short-time current restricted to 10 s	Α	128
Protection class IP		
• on the front		IP20
<ul><li>of the terminal</li></ul>		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             — ut 690 V at ambient temperature 60 °C             Rated value             — at A00 V 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 20 V Rated value             — at 600 V Rated value             — at 10 C-1             — at 24 V Rated value             — at 10 V Rated value             — at 24 V Rated value             — at 24 V Rated value             — at 20 V Rated value             — at 22 V Rated value             — at 20 V Rated value             — at	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 4600 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 400 V Rated value  — at 440 V Rated value  • at C-3 at DC-5  — at 24 V Rated value  • at 10 C-1  — at 24 V Rated value  • at 10 C-1  — at 24 V Rated value  • at 10 C-1  — at 24 V Rated value  • at 10 C-3 at DC-5  — at 110 V Rated value  — at 110 V Rated value  • at 10 C-1  — at 24 V Rated value  — at 110 V Rated value  • at 10 C-1  — at 24 V Rated value  • at 10 C-1  — at 24 V Rated value  — at 110 V Rated value  — at 110 V Rated value  — at 120 V Rated value  — at 20 V Rated v	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 690 V Rated value — at 100-1 — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 120 V Rated value — at 440 V Rated value — at 440 V Rated value — at 20 V Rated value — at 110 V Rated value — at 20 V Rated value — at 110 V Rated value — at 110 V Rated value — at 220 V Rated value — at 110 V Rated value — at 220 V Rated value — at 24 V Rated value — at 220	• 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 AC-4 at 400 V Rated value  — at 24 V Rated value  — at 24 V Rated value  — at 24 V Rated value  — at 20 V Rated value  — at 300 V Rated value  — at 600 V Rated value  — at 24 V Rated value  — at 110 V Rated value  — at 24 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 20 V Rated value  — at 24 V Rated value  — at 20 V Rated value  — at	•	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 690 V Rated value  — at 690 V Rated value  — at 690 V Rated value  A 8.9  • at AC-4 at 400 V Rated value  A 11.5  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 600 V Rated value  — at 10 C-5  — at 24 V Rated value  — at 110 V Rated value  — at 220 V Rated value  — at 200 V Rated value  — at 600 V Rated value  — at 600 V Rated value  — at 70 V Rated value  — at 10 V Rated value  — at 10 V Rated value  — at 20 V Rated value  — at 20 V Rated value  — at 600 V Rated value  — at 20 V Rated value  — at 600 V Rated value  — at 600 V Rated value  — at 20 V Ra		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	16
- at 500 ∨ Rated value	• at AC-3		
- at 690 ∨ Rated value	— at 400 V Rated value	Α	16
• 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 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 110 V Rated value — 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 440 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	12.4
Operating current with 1 current path              ■ at DC-1	— at 690 V Rated value	Α	8.9
■ 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 220 V Rated value     — at 24 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 22 V Rated value     — at 22 V Rated value     — at 22 V Rated value     — at 24 V Rated value     — at 24 V Rated value     — at 22 V Rated value     — at 44 V Rated value     — at 22 V Rated value     — at 22 V Rated value     — at 22 V Rated value     — at 24 V Rated value     — at 22 V Rated value     — at 24 V Rated value     — at 24 V Rated value     — at 24 V Rated value     — at 25 V Rated value     — at 26 V Rated value     — at 27 V Rated value     — at 28 V Rated value     — at 29 V Rated value     — at 44 V Rated value     — at 44 V Rated value     — at 44 V Rated value     — at 29 V Rated value     — at 20	• at AC-4 at 400 V Rated value	Α	11.5
at 24 V Rated value	Operating current with 1 current path	_	
— at 110 V Rated value A 0.8 — at 220 V Rated value A 0.6 — 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 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 110 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 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 110 V Rated value A 1.6  — 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 0.7  • 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 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 Departing current with 2 current paths in series  • at DC-1  — at 24 ∨ Rated value A Doparting current with 2 current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the color of the current paths in series  • at DC-1  — at 220 ∨ Rated value A Date of the current paths  • at DC-3  • at DC-3  — at 110 ∨ Rated value A Date of the current paths in series  • at DC-3  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated value A Date of the current paths in series  • at DC-1  — at 24 ∨ Rated	— 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 20 V Rated value A 20 — at 110 V Rated value A 20 — at 20 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 440 ∨ Rated value A 20	• 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       —       at 20         — at 110 V Rated value       A       20         — at 220 V Rated value       A       20         — at 440 V Rated value       A       1.3	— 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 420 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 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 110 V Rated value     - at 24 V Rated value     - at 220 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 110 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 A D.8 A 0.8 A 0.7  ■ at DC-3 at DC-5 A A DOPERATING CURRENT WITH 3 CURRENT PATHS in series  ■ at DC-1 A A A B A B A B A B A B A B B A B	— at 24 V Rated value	Α	20
<ul> <li>— at 440 V Rated value</li> <li>— at 600 V Rated value</li> <li>A 0.7</li> <li>● at DC-3 at DC-5</li> <li>— at 110 V Rated value</li> <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 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 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>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 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 20</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 20</li> <li>A 20</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  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  — 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

- 1000 1005		
• at DC-3 at DC-5	٨	20
— at 110 V Rated value	A	20
— at 220 V Rated value	A	1.5
— at 24 V Rated value	Α	20
— at 440 V Rated value	Α	0.2
— at 600 V Rated value	Α	0.2
Operating power		
• at AC-1 at 400 V Rated value	kW	13
• at AC-2 at 400 V Rated value	kW	7.5
• at AC-4 at 400 V Rated value	kW	5.5
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	4
— at 400 V Rated value	kW	7.5
— at 690 V Rated value	kW	7.5
Operating power for ≥ 200000 operating cycles at AC-4		
• at 400 V Rated value	kW	2.5
• at 690 V Rated value	kW	3.5
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	48
● at 60 Hz Rated value	V	48
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		0
Number of NO contacts		

for auxiliary contacts		
instantaneous contact		1
Product expansion Auxiliary switch		Yes
Operating current at AC-15		163
at 230 V Rated value	Α	10
at 400 V Rated value	Α	3
at 690 V Rated value	A	1
Operating current		<u>'</u>
• at DC-12 at 125 V Rated value	Α	2
• at DC-12 at 123 V Rated value	A	1
		0.15
• at DC-12 at 600 V Rated value	A	
• at DC-13 at 125 V Rated value	A	0.9
at DC-13 at 220 V Rated value	A	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	14
• at 600 V Rated value	Α	11
yielded mechanical performance [hp]		
• for single-phase AC motor at 110/120 V Rated value	metric hp	1
● for single-phase AC motor at 230 V Rated	metric	2

Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	Α	14
● at 600 V Rated value	Α	11
yielded mechanical performance [hp]		
● for single-phase AC motor at 110/120 V Rated value	metric hp	1
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	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	5
• for three-phase AC motor at 460/480 V Rated value	metric hp	10
• for three-phase AC motor at 575/600 V Rated value	metric hp	10
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: 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	57.5
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	
• for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross-section	

• for main contacts		
<ul> <li>single or multi-stranded</li> </ul>		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG conductors for main contacts</li> </ul>		2x (20 16), 2x (18 14), 2x 12
<ul> <li>for auxiliary contacts</li> </ul>		
<ul> <li>single or multi-stranded</li> </ul>		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		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	43

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
• with high demand rate acc. to SN 31920	%	73
Failure rate [FIT] with low demand rate acc. to SN	FIT	100
31920		
Product function Mirror contact acc. to IEC 60947-4-1		Yes
• Note		with 3RH29
T1 value for proof test interval or service life acc. to	у	20
IEC 61508		
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 <b>+</b> 60
during storage	°C	-55 <b>+</b> 80

# Certificates/ approvals:

#### **General Product Approval**

**Functional** Safety/Safety of Machinery

**Declaration of** Conformity









Type Examination



162	L
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**Shipping Approval** 

**Special Test** Certificate













LRS

### **Shipping Approval**

other







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

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20181AH01

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

http://support.automation.siemens.com/WW/view/en/3RT20181AH01/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=3RT20181AH01&lang=en

