SIEMENS

3RT2016-2BB41 Data sheet



CONTACTOR, AC-3, 4KW/400V, 1NO, DC 24V, 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)		
 of the contactor typical 		30 000 000
 of the contactor with added electronics- 		5 000 000
compatible auxiliary switch block typical		
 of the contactor with added auxiliary switch 		10 000 000
block typical		
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 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 9 • at AC-2 — at 400 V Rated value A 9 — at 400 V Rated value A 7.7 — at 600 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 A 20 — at 110 V Rated value A 2.1 — at 220 V Rated value A 0.8 — at 220 V Rated value A 0.6 — at 400 V Rated value A 0.6 • at DC-3 at DC-5 — at 24 V Rated value A 20 — at 24 V Rated value A 20 • at DC-1 — at 220 V Rated value A 1.6 — at 220 V Rated value A 1.6 • at DC-3 at DC-5 — at 24 V Rated valu	 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 24 V Rated value — at 110 V Rated value — at 400 V Rated value — at 400 V Rated value — at 220 V Rated value — at 220 V Rated value — at 24 V Rated value — at 440 V Rated value — at 440 V Rated value — at 110 V Rated value — at 24 V Rated value — at 250 V Rated value — at 260 V Rated value — at 270 V Rated value — at 270 V Rated value — a	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 590 V Rated value — at 690 V Rated value — at 400 V Rated value — at 24 V Rated value — at 110 V Rated value — at 110 V Rated value — at 440 V Rated value — at 220 V Rated value — at 24 V Rated value — at 600 V Rated value — at 600 V Rated value — at 10 V Rated value — at 10 V Rated value — at 10 V Rated value — at 110 V Rated value — at 220 V Rated	• 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 AC-4 at 400 V Rated value — at 500 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 220 V Rated value — at 600 V Rated value — at 700 V Rated value — at 700 V Rated value — at 700 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 A 9 • at AC-3 — at 400 V Rated value A 9 — at 500 V Rated value A 7.7 — 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 A 20 — 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 DC-3 at DC-5 — at 24 V Rated value A 0.1 • at DC-3 at DC-5 — at 24 V Rated value A 0.1 — at 110 V Rated value A 20 — at 110 V Rated value A 1.6 — at 220 V Rated value A 1.6 — at 24 V Rated value A 0.7 • at DC-3 at DC-5 — at 110 V Rated value A 0.35 — 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 <td></td> <td>Α</td> <td>22</td>		Α	22
• at AC-3 — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value A 7.7 — 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 A 0.8 — at 440 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 24 V Rated value A 0.6 • at DC-3 v Rated value A 0.6 • at DC-3 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 440 V Rated value A 1.6 — at 440 V Rated value A 0.8 — at 600 V Rated value A 1.6 — at 440 V Rated value A 1.6 — at 24 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 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-3 at DC-5 — at 110 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.7 • at DC-1 — at 24 V Rated value A 0.9 • 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 440 V Rated		Α	20
- at 400 ∨ Rated value	• at AC-2 at 400 V Rated value	Α	9
— at 500 ∨ Rated value	• at AC-3		
— at 690 ∨ Rated value A 8.5 Operating current with 1 current path ■ at DC-1 — at 24 ∨ Rated value A 2.1 — at 110 ∨ 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 110 ∨ Rated value A 0.6 — at 110 ∨ Rated value A 0.6 — at 22 ∨ Rated value A 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 1.6 — at 110 ∨ Rated value A 1.6 — at 110 ∨ Rated value A 1.6 — at 220 ∨ Rated value A 0.8 — at 110 ∨ Rated value A 1.6 — at 440 ∨ Rated value A 0.8 — at 210 ∨ Rated value A 0.7 ■ at DC-3 at DC-5 — at 110 ∨ Rated value A 0.8 — at 24 ∨ 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 240 ∨ Rated value A 20	— 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 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 220 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 500 V Rated value	Α	7.7
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 0.7 A 0.1 Operating current with 2 current paths in series A 0.1 Operating current with 2 current paths in series A 12 A 1.6 A 1.6 A 0.8 A 1.6 A 0.7 A 1.6 A 0.7 A 1.1 A 0.7 A 1.1	— 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 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	Operating current with 1 current path		
— 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 D.35 A A Derating current with 3 current paths in series at DC-1 — at 24 V Rated value A A D.35 D.35 A D.35 D.35 A D.35 D.35 A D.35 D.3	— 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 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 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 220 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 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 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 Rated value	— 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 350 V Rated value	Operating current with 2 current paths in series		
- 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 - at 600 V Rated value - at 110 V Rated value - at 110 V Rated value - at 24 V Rated value - at 320 V Rated value - at 440 V Rated value	• 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 at 110 V Rated value A A D.7 ■ at 24 V Rated value A A DOperating current with 3 current paths in series ■ at DC-1 A A DC-1 A DC-1 A	— 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	Α	20
— at 220 V Rated value	Α	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	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		DC
Control supply voltage for DC	_	
Rated value	V	24
Operating range factor control supply voltage rated value of the magnet coil for DC		0.8 1.1
Closing power of the magnet coil for DC	W	4
Holding power of the magnet coil for DC	W	4
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		
• 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]		
 • for single-phase AC motor at 110/120 V Rated value 	metric hp	0.33
 for single-phase AC motor at 230 V Rated value 	metric hp	1
 for three-phase AC motor at 200/208 V Rated value 	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

Design	of the	fuco	link
Design	oi trie	iuse	IIIIK

Short-circuit:

• 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
meaning pecialis		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		
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	spring-loaded terminals
 for auxiliary and control current circuit 	spring-loaded terminals
Type of connectable conductor cross-section	
• for main contacts	

— single or multi-stranded	2x (0,5 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 for AWG conductors for main contacts 	2x (20 12)
• for auxiliary contacts	
— single or multi-stranded	2x (0,5 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
• for AWG conductors for auxiliary contacts	2x (20 12)

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 31920	FIT	100
Product function Mirror contact acc. to IEC 60947-4-1 • Note		Yes with 3RH29
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







other



Type Examination



Test Certificates

Type Test
Certificates/Test
Report

Special Test Certificate



Shipping Approval





other

Shipping Approval



GL



LRS







Confirmation

other

Environmental Confirmations



Further informatior

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=3RT20162BB41

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

 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3RT20162BB41/all}}$

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT20162BB41&lang=en



