SIEMENS

Data sheet

3RT2017-2AK64-3MA0



CONTACTOR, AC-3, 5.5KW/400V, 2NO+2NC AC110V 50HZ/120V 60HZ 3-POLE, SZ S00 SPRING-LOADED TERMINAL PERMANENT AUX. SWITCH FOR SUVA APPLICATIONS

678	
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 current • at AC-1 — at 40 0 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 AC-3 — at 400 V Rated value • at AC-3 — at 400 V Rated value • at AC-3 — at 690 V Rated value • at AC-4 at 400 V Rated value • at DC-1 — at 24 V Rated value • at DC-1 — at 220 V Rated value • at 10C-1 — at 24 V Rated value • at DC-3 at DC-5 — at 24 V Rated value • at DC-1 — at 24 V Rated value • at DC-1 — at 24 V Rated value • at DC-1 — at 24 V Rated value • at DC-1 — at 24 V Rated value • at DC-1 — at 24 V Rated value • at DC-1 — at 24 V Rated value • at DC-1 — at 24 V Rated value • at DC-3 • at DC-4 • at DC-3 • at DC-4 • at DC-1 • at DC-3 • at DC-1 • at DC-1 • at DC-1 • at DC-1	 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 400 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 AC-4 at 400 V Rated value • at DC-1 — at 24 V Rated value • at 10 C-1 — at 24 V Rated value • at 10 C-3 at DC-5 — 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 10 C-1 — at 24 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 110 V Rated value — at 110 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 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 690 V Rated value — at 600 V Rated value — at 10 C-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 440 V Rated value — at 600 V Rated value — at 600 V Rated value — at 10 C-3 — at 24 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 V Rated value — at	• 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 690 V Rated value — at 24 V Rated value — at 24 V Rated value — at 24 V Rated value — at 2110 V Rated value — at 220 V Rated value — at 220 V Rated value — at 200 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 — a	•	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 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 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 400 V Rated value — at 220 V Rated value — at 600 V Rated value — at 24 V Rated value — at 24 V Rated value — at 24 V Rated value — at 10 U Rated value — at 10 U Rated value — at 110 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 10 V Rated value — at 600 V Rated value — at 600 V Rated value — at 20 V Rated value — at 20 V Rated value — at 20 V Rated value — at 600 V Rated value — at 600 V Rated value — at 20 V Rated valu		Α	22
• at AC-3 — at 400 V Rated value — at 500 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 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 110 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 20 V Rated value — at 20 V Rated value — at 440 V Rated value — at 20 V Rated value — at 20 V Rated value — at 600 V Rated value — at 600 V Rated value — at 20 V Rated value — at 600 V Rated value — at 600 V Rated value — at 600 V Rated value — at 24 V Rated value — at 250 V Rate		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	12
- at 500 V Rated value	• at AC-3		
— at 690 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 0.6 — at 440 V Rated value A 0.6 — at 440 V Rated value A 0.6 — at 440 V Rated value A 0.6 — at 10C-3 at DC-5 — at 24 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 440 V Rated value A 0.8 — at 110 V Rated value A 1.6 — at 440 V Rated value A 0.8 — at 500 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 0.30 — at 25 V Rated value A 0.30 — at 25 V Rated value A 0.30 — at 25 V Rated value A 0.30 — a	— 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 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 440 V Rated value — at 440 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 240 V Rated value — at 220 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 500 V Rated value	Α	9.2
Operating current with 1 current path • at DC-1 	— 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 3 DC-5 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 24 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 25 V Rated value — at 26 V Rated value — at 27 V Rated v	• at AC-4 at 400 V Rated value	Α	8.5
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 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 220 V Rated value A 20 — at 220 V Rated value A 20 — at 24 V Rated value A 20 — at 440 V Rated value A 20	• at DC-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 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 0.35 - 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 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 220 V Rated value A 20 - at 440 V Rated value A 20	— 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 1.6 — at 420 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 0.7 • 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 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 • at DC-3 — at 110 ∨ 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 • at DC-1 — at 24 ∨	— 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 110 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 220 ∨ Rated value A 20 at 440 ∨ Rated value A 20 at 440 ∨ Rated value A 20 at 440 ∨ Rated value A 1.3	— 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 220 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 1.3	— 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 240 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 Cat 440 V Rated value A A D.7 ■ at DC-3 at DC-5 A A A D.35 A A Coperating current with 3 current paths in series ■ at DC-1 A A A A A A A A A A A A A A A A A A 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
 — 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 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 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 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 20 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 440 V Rated value A 20 — 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 — 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		
 — 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

- 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	A	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	5.5
• 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	3
— at 400 V Rated value	kW	5.5
— 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	120
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		2
Number of NO contacts		

for auxiliary contacts		
— instantaneous contact		2
Product expansion Auxiliary switch		No
Operating current at AC-15		
• at 230 V Rated value	Α	6
• 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	6
— 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	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 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

Side-by-side mounting Height mm 69.5 Width mm 45 Depth Required spacing • with side-by-side mounting — forwards — upwards — at the side — torwards — upwards — upwards — torwards — torwards — mm 0 • for grounded parts — forwards — upwards — upwards — mm 0 • for grounded parts — forwards — upwards — mm 0 • for grounded parts — forwards — upwards — mm 0 • for live parts — forwards — forwards — mm 0 • for live parts — forwards — mm 0 • for live parts — forwards — mm 0 • forwards — mm 0 • for live parts — forwards — mm 0 — Backwards — mm 0 — Backwards — mm 0 • for live parts — forwards — mm 0 — downwards — mm 0 — downwa	mounting position		+/-180° rotation possible on vertical mounting
Side-by-side mounting Side-by-side mounting Side-by-side mounting Side-by-side mounting Side-by-side mounting Side-by-side mounting Mounting rail according to DIN EN 50022 Yes Side-by-side mounting Mounting type mm 69.5 Width mm 45 Depth mm 121 Required spacing with side-by-side mounting —forwards —Backwards —mm 0 —backwards —upwards —at the side mm 0 for grounded parts —forwards —backwards —mm 0 —at the side —backwards —mm 0 —at the side —downwards —at the side —downwards —at the side —forwards —forwards —forwards —forwards —at the side —downwards —mm 0 for live parts —forwards —Backwards —mm 0 side mounting rail according to DIN EN 50022 Yes Yes Mounting rail according to DIN EN 50022 Yes As to supple according to DIN EN 50022 Yes Side-by-side mounting mounting according to DIN EN 50022 Yes As to supple according to DIN EN 50022 Yes As to supple according to DIN EN 50022 Yes As to supple according to DIN EN 50022 Yes As to supple according to DIN EN 50022 Yes As to supple according to DIN EN 50022 Yes As to supple according to DIN EN 50022 Yes #################################			surface; can be tilted forward and backward by +/-
Side-by-side mounting Height mm 69.5 Width Depth mm 121 Required spacing • with side-by-side mounting — forwards — upwards — at the side — of orgrounded parts — forwards — upwards — upwards — upwards — mm 0 • for grounded parts — forwards — upwards — mm 0 — at the side — downwards — mm 0 • for live parts — forwards — forwards — mm 0 • for live parts — forwards — mm 0 — Backwards — mm 0 — Backwards — mm 0 — downwards —			22.5° on vertical mounting surface
Side-by-side mounting Height mm 69.5 Width mm 45 Depth Required spacing • with side-by-side mounting — forwards — Backwards — upwards — at the side — of orgrounded parts — forwards — upwards — upwards — mm 0 • for grounded parts — forwards — upwards — mm 0 • for grounded parts — forwards — upwards — mm 0 • for live parts — forwards — Backwards — mm 0 • for live parts — forwards — upwards — mm 0 • for live parts — forwards — upwards — mm 0 • for wards — mm 0 • for wards — mm 0 • for wards — mm 0 • forwards — mm 0	Mounting type		screw and snap-on mounting onto 35 mm standard
Height			mounting rail according to DIN EN 50022
Width mm 45 Depth mm 121 Required spacing	 Side-by-side mounting 		
Depth mm 121 Required spacing • with side-by-side mounting • forwards mm 0 — Backwards mm 0 — upwards mm 0 — downwards mm 0 — at the side mm 0 — backwards mm 0 — upwards mm 0 — at the side mm 6 — downwards mm 0 • for live parts mm 0 — Backwards mm 0 — upwards mm 0 — downwards mm 0 — downwards mm 0 — downwards mm 0	-	mm	
Nequired 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 mm 0 — forwards mm 0 — Backwards mm 0 — at the side mm 6 — downwards mm 0 ● for live parts mm 0 — Backwards mm 0 — Backwards mm 0 — upwards mm 0 — downwards mm 0 — downwards mm 0 — downwards mm 0	Width	mm	45
 with side-by-side mounting forwards Backwards upwards downwards at the side for grounded parts forwards mm forwards mm 0 forwards mm 0 at the side mm at the side upwards at the side downwards for live parts forwards mm for live parts Backwards mm mm mm o for live parts mm upwards mm downwards mm o downwards 	•	mm	121
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 Backwards mm 0 Backwards mm 0 upwards mm 0	Required spacing		
— 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 — at the side mm 6 — downwards mm 0 — downwards mm 0 — at the side mm 0 — downwards mm 0 — downwards mm 0 — backwards mm 0 — upwards mm 0 — upwards mm 0 — upwards mm 0	with side-by-side mounting		
— upwards	— forwards	mm	0
- downwards	— Backwards	mm	0
- at the side	— upwards	mm	0
 for grounded parts — forwards — Backwards — upwards — at the side — downwards ■ for live parts — forwards — Backwards — upwards — mm 0 — Backwards — upwards — downwards mm 0 — downwards mm 0 — downwards mm 0 — mm 0 — mm 0 — downwards — mm 0 — downwards — mm 0 — downwards — mm 0 	— downwards	mm	0
 — forwards — Backwards — upwards — at the side — downwards • for live parts — forwards — Backwards — upwards — upwards — downwards mm 0 — Backwards — upwards — downwards mm 0 — downwards mm 0 	— at the side	mm	0
 — Backwards — upwards — at the side — downwards ● for live parts — forwards — Backwards — upwards — downwards mm 0 — upwards — downwards mm 0 — downwards mm 0 — mm 0 — mm 0 — mm 0 — mm 0 — downwards mm 0 — mm 0 — downwards mm 0 	• for grounded parts		
 — upwards — at the side — downwards • for live parts — forwards — Backwards — upwards — downwards mm 0 — downwards mm 0 — downwards mm 0 — downwards 	— forwards	mm	0
 — at the side — downwards ● for live parts — forwards — Backwards — upwards — downwards mm 0 	— Backwards	mm	0
— downwards mm 0 ● for live parts mm 0 — forwards mm 0 — Backwards mm 0 — upwards mm 0 — downwards mm 0	— upwards	mm	0
 for live parts — forwards — Backwards — upwards — downwards mm 0 mm 0 mm 0 mm 0 	— at the side	mm	6
— forwards mm 0 — Backwards mm 0 — upwards mm 0 — downwards mm 0	— downwards	mm	0
— forwards mm 0 — Backwards mm 0 — upwards mm 0 — downwards mm 0	• for live parts		
— upwards— downwardsmm0mm0	·	mm	0
— upwards— downwardsmm0mm0	— Backwards	mm	0
— downwards mm 0		mm	0
	•	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		2x (0.5 2.5 mm²)
processing		
 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		2x (0.5 2.5 mm²)
processing		0 (00 10)
for AWG conductors for auxiliary contacts		2x (20 12)
Apparent pick-up power of the magnet coil with AC) / A	0.7
● 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 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 Declaration of Safety/Safety Of Machinery Test Conformity Certificates







Type Examination



Special Test Certificate

Shipping Approval









GL





Shipping Approval

other





Environmental Confirmations



Further informatior

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

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

Industry Mall (Online ordering system)

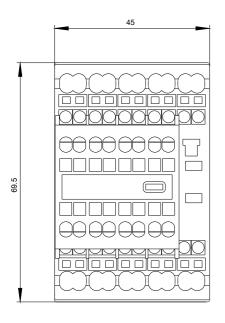
http://www.siemens.com/industrymall

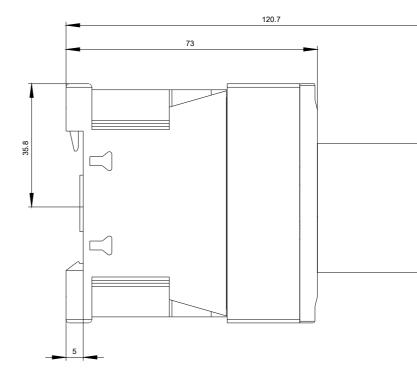
Cax online generator

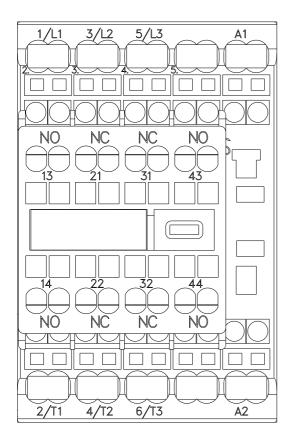
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20172AK643MA0

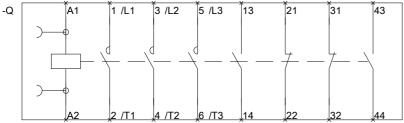
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20172AK643MA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT20172AK643MA0&lang=en









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