SIEMENS

Product data sheet 3RT2037-1AL24



CONTACTOR,AC3:30KW/400V, 2NO+2NC, 230V AC 50/60HZ, 3-POLE, SIZE S2, SCREW TERMINAL

General technical data:		
product brand name		SIRIUS
Size of contactor		S2
Product expansion		
Auxiliary switch		No
function module for communication		No
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at height above sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 +80
during operation	°C	-25 +60
Surge voltage resistance / Rated value	kV	6
Insulation voltage / Rated value	V	690
maximum permissible voltage for safe isolation / between coil and main contacts / acc. to EN 60947-1	V	400
Mechanical service life (switching cycles)		
of the contactor / typical		10,000,000
of the contactor with added auxiliary switch block / typical		10,000,000
 of the contactor with added electronics-compatible auxiliary switch block / typical 		5,000,000

Number of NO contacts / for main contacts 3 Connectable conductor cross-section / in main circuit at AC-1 • at 40 °C / minimum permissible mm² 25 • at 60 °C / minimum permissible mm² 35 Operating current • at AC-1 / up to 690 V at ambient temperature 40 °C / Rated value A 80 • at ambient temperature 60 °C / Rated value A 65 • at AC-2 / at 400 V / Rated value A 65 • at AC-3 A 65 • at 500 V / Rated value A 65 • at 690 V / Rated value A 55 Operating current / for ≥ 200000 operating cycles / at AC-4 A 28 • at 690 V / Rated value A 28 • at 690 V / Rated value A 22	Main circuit:		
Connectable conductor cross-section / In main circuit - at AC-1 - at 40 °C / minimum permissible - at 60 °C / minimum permissible - at 60 °C / minimum permissible - at 60 °C / minimum permissible Operating current - at AC-1 / up to 690 V - at ambient temperature 40 °C / Rated value - at ambient temperature 60 °C / Rated value - at AC-2 / at 400 V / Rated value - at AC-3 - at 400 V / Rated value - at 690 V / Rated value - at 10 V / Rated value - at 10 V / Rated value - at 110 V / Rated value - at 440 V / Rated value - at 22 V / Rated value - at 22 V / Rated value - at 400 V / Rated value - at 400 V / Rated value - at 20 V / Rated value - at 400 V / Rated value - at 600 V / Rated value - at 22 V / Rated value - at 440 V / Rated value - at 220 V / Rated value - at 440 V / Rated value -	Number of NC contacts / for main contacts		0
• at AC-1 • at 40 °C / minimum permissible mm² 25 • at 60 °C / minimum permissible mm² 35 Operating current • at AC-1 / up to 690 V at ambient temperature 40 °C / Rated value A 80 • at ambient temperature 60 °C / Rated value A 65 • at AC-2 / at 400 V / Rated value A 65 • at AC-3 A 65 • at 500 V / Rated value A 65 • at 690 V / Rated value A 55 • operating current / for ≥ 200000 operating cycles / at AC-4 A 28 • at 690 V / Rated value A 28 • at 690 V / Rated value A 22 • at 690 V / Rated value A 22 • at 400 V / Rated value A 22 • at 690 V / Rated value A 22 • at 690 V / Rated value A 4.5 • at 24 V / Rated value A 4.5 • at 400 V / Rated value A 70 • at 110 V / Rated value A 0.4 • at 220 V / Rated value A 0.4 • at 24 V / Rated value A 70 • at 110 V / Rated value A 5 • at 220 V / Rated value A 5 • at 600 V / Rated value A 65 <td>Number of NO contacts / for main contacts</td> <td></td> <td>3</td>	Number of NO contacts / for main contacts		3
• at 40 °C / minimum permissible mm² 25 • at 60 °C / minimum permissible mm² 35 Operating current mm² 35 • at AC-1 / up to 690 V at ambient temperature 40 °C / Rated value A 80 • at ambient temperature 60 °C / Rated value A 65 • at AC-2 / at 400 V / Rated value A 65 • at AC-3 A 65 • at 500 V / Rated value A 65 • at 690 V / Rated value A 47 • at 690 V / Rated value A 28 • at 400 V / Rated value A 22 Operating current A 22 • with 1 current path / at DC-1 • at 24 V / Rated value A 4.5 • at 220 V / Rated value A 4.5 4.5 • at 4600 V / Rated value A 0.25 4.5 • with 2 current paths in series / at DC-1 • at 24 V / Rated value A 4.5 • at 110 V / Rated value A 4.5 • at 220 V / Rated value A 5.5 • at 600 V / Rated value A 1.0 <t< td=""><td>Connectable conductor cross-section / in main circuit</td><td></td><td></td></t<>	Connectable conductor cross-section / in main circuit		
Operating current - at AC-1 / up to 690 V - at ambient temperature 40 °C / Rated value	• at AC-1		
Operating current • at AC-1 / up to 690 V • at ambient temperature 40 °C / Rated value • 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 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 440 V / Rated value • at 440 V / Rated value • at 42 V / Rated value • at 600 V / Rated value • at 600 V / Rated value • at 110 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 600 V / Rated value • at 220 V / Rated value • at 600 V / Rated value • at 220 V / Rated value • at 220 V / Rated value • at 600 V / Rated	• at 40 °C / minimum permissible	mm²	25
• at AC-1 / up to 690 V • at ambient temperature 40 °C / Rated value A 80 • at ambient temperature 60 °C / Rated value A 70 • at AC-2 / at 400 V / Rated value A 65 • at AC-3 — A 65 • at 400 V / Rated value A 65 • at 690 V / Rated value A 47 • at 690 V / Rated value A 55 Operating current / for ≥ 200000 operating cycles / at AC-4 • at 400 V / Rated value A 28 • at 400 V / Rated value A 22 Operating current • with 1 current path / at DC-1 - at 24 V / Rated value A 4.5 • at 110 V / Rated value A 4.5 - at 4.5 - at 4.5 • at 4600 V / Rated value A 0.25 - at 110 V / Rated value A 4.5 • at 110 V / Rated value A 4.5 - at 4.5	• at 60 °C / minimum permissible	mm²	35
 at ambient temperature 40 °C / Rated value at ambient temperature 60 °C / Rated value at AC-2 / at 400 V / Rated value at AC-3 at 400 V / Rated value at 500 V / Rated value at 500 V / Rated value at 690 V / Rated value at 690 V / Rated value at 400 V / Rated value at 400 V / Rated value at 690 V / Rated value at 400 V / Rated value at 690 V / Rated value at 690 V / Rated value at 690 V / Rated value at 24 V / Rated value at 24 V / Rated value at 24 V / Rated value at 220 V / Rated value at 440 V / Rated value at 440 V / Rated value at 440 V / Rated value at 220 V / Rated value at 440 V / Rated value at 40 V / Rated value at 600 V / Rated value at 110 V / Rated value at 110 V / Rated value at 220 V / Rated value at 440 V / Rated value at 20 V / Rated value at 440 V / Rated value at 20 V / Rated value at 24 V / Rated value at 24 V / Rated value at 22 V / Rated value at 24 V / Rated value at 250 V / Rated value at 440 V / Rated va	Operating current		
• 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 220 V / Rated value • at 24 V / Rated value • at 220 V / Rated value • at 440 V / Rated value • at 600 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 • at 110 V / Rated value • at 110 V / Rated value • at 220 V / Rated value • at 220 V / Rated value • at 220 V / Rated value • at 24 V / Rated value • at 220 V / Rated value • at 220 V / Rated value • at 220 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 220 V / Rated value • at 440 V / Rated value • at	• at AC-1 / up to 690 V		
• 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 400 V / Rated value • at 690 V / Rated value • at 690 V / Rated value • 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 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 24 V / Rated value • at 24 V / Rated value • at 20 V / Rated value • at 110 V / Rated value • at 110 V / Rated value • at 220 V / Rated value • at 440 V / Rated value • at 440 V / Rated value • at 220 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 220 V / Rated value • at 220 V / Rated value • at 220 V / Rated value • at 440 V / Rated v	• at ambient temperature 40 °C / Rated value	Α	80
• at AC-3 • at 400 V / Rated value • at 500 V / Rated value • at 690 V / Rated value • at 690 V / Rated value • at 400 V / Rated value • at 690 V / Rated value • at 690 V / Rated value • 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 220 V / Rated value • at 440 V / Rated value • at 440 V / Rated value • at 600 V / Rated value • at 600 V / Rated value • at 24 V / Rated value • at 110 V / Rated value • at 24 V / Rated value • at 220 V / Rated value • at 24 V / Rated value • at 24 V / Rated value • at 110 V / Rated value • at 220 V / Rated value • at 440 V / Rated value • at 220 V / Rated value • at 440 V / Rated value • at 24 V / Rated value • at 440 V / Rated value • at 24 V / Rated value • at 25 V / Rated value • at 27 V / Rated value • at 28 A 45 A 4	• at ambient temperature 60 °C / Rated value	Α	70
 at 400 V / Rated value at 500 V / Rated value at 690 V / Rated value at AC-4 / at 400 V / Rated value A 55 Operating current / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value at 690 V / Rated value at 690 V / Rated value with 1 current path / at DC-1 at 24 V / Rated value at 110 V / Rated value at 120 V / Rated value at 440 V / Rated value at 440 V / Rated value at 600 V / Rated value at 220 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 220 V / Rated value at 440 V / Rated value at 110 V / Rated value at 220 V / Rated value at 440 V / Rated value at 220 V / Rated value at 24 V / Rated value at 220 V / Rated value at 24 V / Rated value at 25 V / Ra	• at AC-2 / at 400 V / Rated value	Α	65
• at 500 V / Rated value A 47 • at 690 V / Rated value A 47 • at AC-4 / at 400 V / Rated value A 55 Operating current / for ≥ 200000 operating cycles / at AC-4 A 28 • at 400 V / Rated value A 22 • at 690 V / Rated value A 22 Operating current • with 1 current path / at DC-1 A 70 • at 24 V / Rated value A 4.5 • at 110 V / Rated value A 4.5 • at 440 V / Rated value A 0.25 • with 2 current paths in series / at DC-1 A 45 • at 220 V / Rated value A 45 • at 440 V / Rated value A 5 • at 440 V / Rated value A 1 • at 600 V / Rated value A 0.8 • with 3 current paths in series / at DC-1 A 45 • at 24 V / Rated value A 55 • at 110 V / Rated value A 45 • at 24 V / Rated value A 45 • at 110 V / Rated value A 45	• at AC-3		
• at 690 V / Rated value • at AC-4 / at 400 V / Rated value Operating current / for ≥ 200000 operating cycles / at AC-4 • at 400 V / Rated value • at 690 V / Rated value A 28 • at 690 V / Rated value A 22 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 600 V / Rated value • at 600 V / Rated value • at 600 V / Rated value • at 110 V / Rated value • at 220 V / Rated value • at 600 V / Rated value • at 220 V / Rated value • at 440 V / Rated value • at 440 V / Rated value • at 420 V / Rated value • at 440 V / Rated value • at 600 V / Rated value • at 600 V / Rated value • at 440 V / Rated value • at 440 V / Rated value • at 220 V / Rated value • at 220 V / Rated value • at 220 V / Rated value • at 240 V / Rated value • at 220 V / Rated value	• at 400 V / Rated value	Α	65
• at AC-4 / at 400 V / Rated value Operating current / for ≥ 200000 operating cycles / at AC-4 • at 400 V / Rated value • at 690 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 600 V / Rated value • with 2 current paths in series / at DC-1 • at 220 V / Rated value • at 110 V / Rated value • at 440 V / Rated value • at 600 V / Rated value • at 220 V / Rated value • at 220 V / Rated value • at 220 V / Rated value • at 24 V / Rated value • at 25 • with 3 current paths in series / at DC-1 • at 24 V / Rated value • at 600 V / Rated value • at 440 V / Rated value • at 110 V / Rated value • at 220 V / Rated value • at 440 V / Rated value • at 440 V / Rated value • at 220 V / Rated value • at 440 V / Rated value • at 220 V / Rated value • at 440 V / Rated value	• at 500 V / Rated value	Α	65
Operating current / for ≥ 200000 operating cycles / at AC-4 at 400 V / Rated value A 28 • at 690 V / Rated value A 22 Operating current • with 1 current path / at DC-1 A 70 • at 24 V / Rated value A 4.5 • at 110 V / Rated value A 2 • at 440 V / Rated value A 0.4 • at 600 V / Rated value A 0.25 • with 2 current paths in series / at DC-1 A 45 • at 220 V / Rated value A 5 • at 440 V / Rated value A 5 • at 440 V / Rated value A 5 • at 600 V / Rated value A 1 • at 600 V / Rated value A 5 • at 110 V / Rated value A 55 • at 110 V / Rated value A 55 • at 110 V / Rated value A 45 • at 220 V / Rated value A 45 • at 110 V / Rated value A 45 • at 140 V / Rated value A 45 • at 440 V / Rated value A 45	• at 690 V / Rated value	Α	47
• at 400 V / Rated value • at 690 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 600 V / Rated value • at 600 V / Rated value • at 110 V / Rated value • at 22 V / Rated value • at 440 V / Rated value • at 440 V / Rated value • at 110 V / Rated value • at 110 V / Rated value • at 22 V / Rated value • at 110 V / Rated value • at 220 V / Rated value • at 440 V / Rated value • at 440 V / Rated value • at 440 V / Rated value • at 600 V / Rated value • at 110 V / Rated value • at 220 V / Rated value • at 440 V / Rated value • at 220 V / Rated value	• at AC-4 / at 400 V / Rated value	Α	55
• at 690 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 600 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 220 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 600 V / Rated value • at 600 V / Rated value • at 110 V / Rated value • at 220 V / Rated value	Operating current / for ≥ 200000 operating cycles / at AC-4		
• with 1 current path / at DC-1 • at 24 V / Rated value A 70 • at 110 V / Rated value A 4.5 • at 220 V / Rated value A 2 • at 440 V / Rated value A 0.4 • at 600 V / Rated value A 0.25 • with 2 current paths in series / at DC-1 A 70 • at 24 V / Rated value A 45 • at 220 V / Rated value A 5 • at 440 V / Rated value A 1 • at 600 V / Rated value A 0.8 • with 3 current paths in series / at DC-1 A 55 • at 110 V / Rated value A 55 • at 110 V / Rated value A 45 • at 220 V / Rated value A 45 • at 220 V / Rated value A 45 • at 440 V / Rated value A 45 • at 440 V / Rated value A 45	• at 400 V / Rated value	Α	28
 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 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 220 V / Rated value at 220 V / Rated value at 440 V / Rated value at 600 V / Rated value at 600 V / Rated value at 24 V / Rated value at 24 V / Rated value at 24 V / Rated value at 100 V / Rated value at 24 V / Rated value at 25 A 45 at 29 	• at 690 V / Rated value	Α	22
 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 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 220 V / Rated value at 600 V / Rated value at 220 V / Rated value at 220 V / Rated value at 440 V / Rated value at 24 V / Rated value at 25 A 45 at 20 V / Rated value at 220 V / Rated value 	Operating current		
 at 110 V / Rated value at 220 V / Rated value at 440 V / Rated value at 600 V / Rated value 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 220 V / Rated value at 440 V / Rated value at 600 V / Rated value at 600 V / Rated value at 24 V / Rated value at 440 V / Rated value at 45 at 440 V / Rated value at 440 V / Rated value at 440 V / Rated value at 2.9 	• with 1 current path / at DC-1		
 at 220 V / Rated value at 440 V / Rated value at 600 V / Rated value 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 600 V / Rated value at 24 V / Rated value at 600 V / Rated value at 10 V / Rated value at 24 V / Rated value at 25 A 45 at 24 V / Rated value at 25 A 45 at 29 A 45 	• at 24 V / Rated value	Α	70
 at 440 V / Rated value at 600 V / Rated value 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 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 24 V / Rated value at 220 V / Rated value at 220 V / Rated value at 240 V / Rated value 	• at 110 V / Rated value	Α	4.5
 at 600 V / Rated value 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 with 3 current paths in series / at DC-1 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 220 V / Rated value at 220 V / Rated value at 240 V / Rated value 	at 220 V / Rated value	Α	2
 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 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 24 V / Rated value at 24 V / Rated value at 220 V / Rated value at 220 V / Rated value at 24 V / Rated value at 220 V / Rated value at 220 V / Rated value at 220 V / Rated value 	at 440 V / Rated value	Α	0.4
 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 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 	at 600 V / Rated value	Α	0.25
 at 110 V / Rated value at 220 V / Rated value at 440 V / Rated value at 600 V / Rated value 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 at 440 V / Rated value at 440 V / Rated value 	• with 2 current paths in series / at DC-1		
 at 220 V / Rated value at 440 V / Rated value at 600 V / Rated value 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 at 440 V / Rated value 	at 24 V / Rated value	Α	70
 at 440 V / Rated value at 600 V / Rated value 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 2.9 	• at 110 V / Rated value	Α	45
 at 600 V / Rated value 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 2.9 	at 220 V / Rated value	Α	5
 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 2.9 	• at 440 V / Rated value	Α	1
 at 24 V / Rated value at 110 V / Rated value at 220 V / Rated value at 440 V / Rated value A 2.9 	at 600 V / Rated value	Α	0.8
• at 110 V / Rated value • at 220 V / Rated value • at 440 V / Rated value A 45 • at 440 V / Rated value A 2.9	• with 3 current paths in series / at DC-1		
• at 220 V / Rated value A 45 • at 440 V / Rated value A 2.9	• at 24 V / Rated value	Α	55
• at 440 V / Rated value A 2.9	• at 110 V / Rated value	Α	45
	at 220 V / Rated value	Α	45
at 600 V / Rated value A 1.4	at 440 V / Rated value	Α	2.9
	at 600 V / Rated value	Α	1.4

Operating current		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / Rated value	Α	35
• at 110 V / Rated value	Α	2.5
• at 220 V / Rated value	Α	2
• at 440 V / Rated value	Α	0.1
• at 600 V / Rated value	Α	0.06
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	Α	55
• at 110 V / Rated value	Α	25
• at 220 V / Rated value	Α	5
• at 440 V / Rated value	Α	0.27
• at 600 V / Rated value	Α	0.16
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	Α	55
• at 110 V / Rated value	Α	45
• at 220 V / Rated value	Α	25
• at 440 V / Rated value	Α	0.6
• at 600 V / Rated value	Α	0.6
Operating power		
• at AC-1 / at 230 V / Rated value	kW	30
• at AC-1 / at 400 V / Rated value	kW	53
• at AC-1 / at 690 V / Rated value	kW	91
• at AC-2		
• at 400 V / Rated value	kW	30
• at AC-3		
• at 230 V / Rated value	kW	18.5
• at 400 V / Rated value	kW	30
• at 500 V / Rated value	kW	37
• at 690 V / Rated value	kW	37
• at AC-4		
• at 400 V / Rated value	kW	30
Operating power / for ≥ 200000 operating cycles / at AC-4		
• at 400 V / Rated value	kW	14.7
• at 690 V / Rated value	kW	20
Thermal short-time current / restricted to 10 s	A	520
Active power loss / at AC-3 / at 400 V / for rated value of the operating current / per conductor	W	3.8
No-load switching frequency		
······································		

Operating frequency		
• at AC-1 / maximum	1/h	800
• at AC-2 / maximum	1/h	400
• at AC-3 / maximum	1/h	700
• at AC-4 / maximum	1/h	200

Control circuit/ Control:		
Type of voltage / of the control supply voltage		AC
Control supply voltage		
• with AC / at 50 Hz / Rated value	V	230
• with AC / at 60 Hz / Rated value	V	230
Operating range factor control supply voltage rated value / of the magnet coil		
• with AC / at 50 Hz		0.8 1.1
• with AC / at 60 Hz		0.85 1.1
Apparent pick-up power / of the magnet coil / with AC		
• at 50 Hz	V·A	210
• at 60 Hz	V·A	188
Apparent holding power / of the magnet coil / with AC		
• at 50 Hz	V·A	17.2
• at 60 Hz	V·A	16.5
Closing delay		
• with AC	ms	10 80
Opening delay		
• with AC	ms	10 18
Arcing time	ms	10 20

Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts / instantaneous contact		2
Number of NO contacts / for auxiliary contacts / instantaneous contact		2
Operating current		
• at AC-12 / maximum	Α	10
• at AC-15		
• at 230 V / Rated value	Α	6
• at 400 V / Rated value	Α	3
• at 500 V / Rated value	Α	2
• at 690 V / Rated value	Α	1
Operating current / at DC-12		
• at 24 V / Rated value	Α	10

• at 48 V / Rated value	Α	6
• at 60 V / Rated value	Α	6
• at 110 V / Rated value	Α	3
• at 125 V / Rated value	Α	2
• at 220 V / Rated value	Α	1
• at 440 V / Rated value	Α	0.3
• at 600 V / Rated value	Α	0.15
Operating current / at DC-13		
• at 24 V / Rated value	Α	6
• at 48 V / Rated value	Α	2
• at 60 V / Rated value	Α	2
• at 110 V / Rated value	Α	1
• at 125 V / Rated value	Α	0.9
at 220 V / Rated value	Α	0.3
• at 440 V / Rated value	Α	0.14
• at 600 V / Rated value	Α	0.1
UL/CSA ratings:		

UL/CSA ratings:		
yielded mechanical performance [hp]		
for single-phase AC motor		
• at 110/120 V / Rated value	hp	5
• at 230 V / Rated value	hp	10
for three-phase AC motor		
• at 200/208 V / Rated value	hp	20
• at 220/230 V / Rated value	hp	20
• at 460/480 V / Rated value	hp	50
• at 575/600 V / Rated value	hp	50
Full-load current (FLA) / for three-phase AC motor		
• at 480 V / Rated value	Α	65
• at 600 V / Rated value	Α	52
Contact rating / of the auxiliary contacts / acc. to UL		A600 / Q600

Short-circuit:	
Design of the fuse link	
• for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A

Installation/ mounting/ dimensions:	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022

Width	mm	55
Height	mm	113.4
Depth	mm	173.5
Spacing required / with side-by-side mounting	mm	0

Connections/ terminals:	
Design of the electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-section	
for main contacts	
single or multi-stranded	2x (1 35 mm²), 1x (1 50 mm²)
finely stranded / with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
for AWG conductors / for main contacts	2x (18 2), 1x (18 1)
Type of connectable conductor cross-section	
for auxiliary contacts	
single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
finely stranded / with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG conductors / for auxiliary contacts	2x (20 16), 2x (18 14)

Safety related data:		
Proportion of dangerous failures		
• with low demand rate / acc. to SN 31920	%	40
 with high demand rate / acc. to SN 31920 	%	73
Product function		
Mirror contact acc. to IEC 60947-4-1		Yes
 positively driven operation acc. to IEC 60947-5-1 		No

Certificates/ approvals:

General Product Approval

other





Confirmation

Further information:

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

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

Industry Mall (Online ordering system)

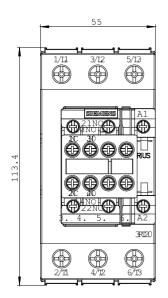
http://www.siemens.com/industrymall

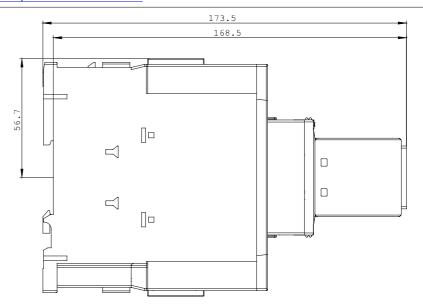
Cax online generator

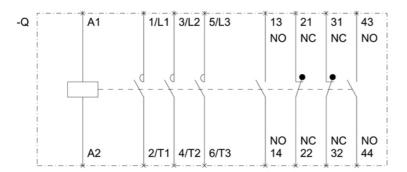
http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3RT2037-1AL24/all







last change: Dec 17, 2014