SIEMENS

Product data sheet 3RT2024-1NF30



CONTACTOR, AC-3, 5.5KW/400V, 1NO+1NC, AC(50-60HZ)/DC ACTUAT., UC 95...130V, 3-POLE, SZ SO SCREW TERMINAL

General technical data:		
product brand name		SIRIUS
Size of the contactor		S0
Product extension / auxiliary switch		Yes
Product extension / function module for communication		No
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-55 +80
during operating	°C	-25 +60
Shock resistance		
at rectangular impulse		
• at AC		7,5g / 5 ms, 4,7g / 10 ms
• at DC		10g / 5 ms, 7,5g / 10 ms
at sine pulse		
• at AC		11,8g / 5 ms, 7,4g / 10 ms
• at DC		15g / 5 ms, 10g / 10 ms
Impulse voltage resistance / rated value	kV	6

Insulation voltage / rated value	V	690
Maximum permissible voltage for protective separation / between coil and main contacts / in accordance with EN 60947-1	V	400
Mechanical operating cycles as operating time		
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

Main circuit:
Number of NC contacts / for main contacts 0
Number of NO contacts / for main contacts 3
Operating current / at AC-1 / at 400 V
• at 40 °C ambient temperature / rated value A 40
• at 60 °C ambient temperature / rated value A 35
Connectable conductor cross-section / in main circuit
• at AC-1
• at 40 °C / minimum permissible m² 10
• at 60 °C / minimum permissible m² 10
Operational current
• at AC-2 / at 400 V / rated value A 12
• at AC-3
• at 400 V / rated value A 12
• at 500 V / rated value A 12
• at 690 V / rated value A 9
• at AC-4 / at 400 V / rated value A 12.5
Operational current
• with 1 current path / at DC-1
• at 24 V / rated value A 35
• at 110 V / rated value A 4.5
• at 220 V / rated value A 1
• 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
• at 24 V / rated value A 35
at 110 V / rated value A 35
• 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
at 24 V / rated value A 35

- at 110 V / rated value			
*at 440 V / rated value *at 600 V / rated value *at 600 V / rated value *at 100 V / rated value *at 400 V / rated value *at 220 V / rated value *at 400 V / rated value *at 400 V / rated value *at 400 V / rated value *at 220 V / rated value *at 400 V / rated value *at 220 V / rated value *at 110 V / rated value *at 110 V / rated value *at 220 V / rated value *at 320 V / rated value *at 600 V / rated value *at 400 V / rated value *at 600 V / rated value *at 60	• at 110 V / rated value	Α	35
- at 600 V / rated value	• at 220 V / rated value	Α	35
Operational current • with 1 current path / at DC-3 at DC-5 • at 24 V / rated value A 20 • at 110 V / rated value A 2.5 • at 220 V / rated value A 0.09 • at 600 V / rated value A 0.06 • with 2 current paths in series / at DC-3 / at DC-5 - at 24 V / rated value • at 110 V / rated value A 35 • at 110 V / rated value A 35 • at 220 V / rated value A 0.16 • at 220 V / rated value A 0.16 • at 600 V / rated value A 0.16 • with 3 current paths in series / at DC-3 / at DC-5 - at 24 V / rated value • at 220 V / rated value A 35 • at 220 V / rated value A 35 • at 220 V / rated value A 35 • at 220 V / rated value A 0.6 • at 220 V / rated value A 0.6 • at 220 V / rated value W 23 • at 220 V / rated value W 29 • at 230 V / rated value W 29 • at AC-2 / at 400 V / rated value W 5.5 • at 230 V / rated value W 5.5 • at 230 V / rated value W 5.5 </td <td>• at 440 V / rated value</td> <td>Α</td> <td>2.9</td>	• at 440 V / rated value	Α	2.9
• with 1 current path / at DC-3 / at DC-5 • 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 600 V / rated value • at 600 V / rated value • with 2 current paths in series / at DC-3 / at DC-5 • 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 600 V / rated value • at 24 V / rated value • at 24 V / rated value • at 22 V / rated value • at 22 V / rated value • at 24 V / rated value • at 22 V / rated value • at 22 V / rated value • at 600	• at 600 V / rated value	А	1.4
- 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 110 V / rated value - at 120 V / rated value - at 110 V / rated value - at 120 V / rated value - at 400 V / rated value - at 600 V / rated value - at 600 V / rated value - at 600 V / rated value - at 120 V / rated value - at 140 V / rated value - at 120 V / rated value - at 600 V / rated value - at 230 V / rated value - at 600 V / rated val	Operational current		
- at 110 V / rated value - at 220 V / rated value - at 600 V / rated value - at 600 V / rated value - with 2 current paths in series / at DC-3 / at DC-5 - at 24 V / rated value - at 110 V / rated value - at 110 V / rated value - at 110 V / rated value - at 20 V / rated value - at 440 V / rated value - at 440 V / rated value - at 600 V / rated value - at 600 V / rated value - at 600 V / rated value - at 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 420 V / rated value - at 420 V / rated value - at 420 V / rated value - at 600 V / rated value - at 600 V / rated value - at 400 V / rated value - at 600 V / rated v	• with 1 current path / at DC-3 / at DC-5		
* at 220 V / rated value	• at 24 V / rated value	А	20
- at 440 V / rated value - at 600 V / rated value • with 2 current paths in series / at DC-3 / at DC-5 • at 24 V / rated value - at 110 V / rated value - at 120 V / rated value - at 440 V / rated value - at 600 V / rated value - at 24 V / rated value - at 24 V / rated value - at 110 V / rated value - at 110 V / rated value - at 220 V / rated value - at 120 V / rated value - at 20 V / rated value - at 35 - at 220 V / rated value - at 600 V / rated value - at 800 V / rated value - at 600 V / rated value - at 600 V / rated value - at 800 V / rated value - at 600 V	• at 110 V / rated value	А	2.5
* at 600 V / rated value * with 2 current paths in series / at DC-3 / at DC-5 * at 24 V / rated value * at 110 V / rated value * at 120 V / rated value * at 400 V / rated value * at 440 V / rated value * at 600 V / rated value * at 600 V / rated value * with 3 current paths in series / at DC-3 / at DC-5 * at 24 V / rated value * with 3 current paths in series / at DC-3 / at DC-5 * at 24 V / rated value * at 110 V / rated value * at 110 V / rated value * at 220 V / rated value * at 400 V / rated value * at 600 V / rated value * at 600 V / rated value * at 400 V / rated value * at 400 V / rated value * at 600 V / ra	• at 220 V / rated value	Α	1
• with 2 current paths in series / at DC-3 / at DC-5 • 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 • with 3 current paths in series / at DC-3 / at DC-5 • at 24 V / rated value • with 3 current paths in series / at DC-3 / at DC-5 • 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 600 V /	• at 440 V / rated value	Α	0.09
• 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 • with 3 current paths in series / at DC-3 / at DC-5 • 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 • at 600 V / rated value • at 600 V / rated value • at 600 V / rated value • at 800 V / rated value • at 600 V / rated v	• at 600 V / rated value	Α	0.06
• 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 • with 3 current paths in series / at DC-3 / at DC-5 • 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 • at 600 V / rated value • at 600 V / rated value • at 600 V / rated value • at AC-1 • at 230 V / rated value • at 400 V / rated value • at 690 V / rated value • at 690 V / rated value • at 690 V / rated value • at AC-3 • at 230 V / rated value • at AC-3 • at 230 V / rated value • at AC-3 • at 230 V / rated value • at AC-3 • at 230 V / rated value • at AC-3 • at 230 V / rated value • at AC-4 / at 400 V / rated value • at AC-5 / at 400 V / rated value • at AC-6 / at 400 V / rated value • at AC-6 / at 400 V / rated value • at AC-7 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-9 / at 400 V / rated	• with 2 current paths in series / at DC-3 / at DC-5		
• at 220 V / rated value • at 440 V / rated value • at 600 V / rated value • with 3 current paths in series / at DC-3 / at DC-5 • 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 600 V / rated value • at 800 V / rated value • at 400 V / rated value • at 400 V / rated value • at 400 V / rated value • at 690 V / rated	• at 24 V / rated value	Α	35
• at 440 V / rated value • at 600 V / rated value • with 3 current paths in series / at DC-3 / at DC-5 • 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 600 V / rated value • at 220 V / rated value • at 600 V / rated value • at 600 V / rated value • at 230 V / rated value • at 400 V / rated value • at 400 V / rated value • at 400 V / rated value • at 690 V / rated value • at 690 V / rated value • at 690 V / rated value • at AC-3 • at 230 V / rated value • at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-3 • at 230 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 AC-4 / at 400 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 AC-4 / at 400 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 AC-4 / at 400 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 AC-4 / at 400 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 AC-5 / at 400 V / with rated operational current value / per conductor Off-load operating frequency • at AC-5 / at 400 V / with rated operational current value / per conductor	• at 110 V / rated value	А	15
• at 600 V / rated value • with 3 current paths in series / at DC-3 / at DC-5 • 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 35 Service power • at AC-1 • at 230 V / rated value • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 • at 230 V / rated value • at AC-4 / at 400 V / rated value • at 400 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 AC-4 / at 400 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 AC-4 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-5 / at 400 V / with rated operational current value / per conductor Off-load operating frequency • at AC	• at 220 V / rated value	Α	3
with 3 current paths in series / at DC-3 / at DC-5	• at 440 V / rated value	Α	0.27
• 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 230 V / rated value • at 400 V / rated value • at 400 V / rated value • at 400 V / rated value • at 690 V / rated value • at AC-2 / at 400 V / rated value • at 400 V / rated value • at AC-3 • at 230 V / rated value • at AC-4 / at 400 V / rated value • at AC-3 • at 230 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 AC-4 / at 400 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 AC-4 / at 400 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 AC-4 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-6 / at 400 V / rated value • at AC-7 / at 400 V / rated value • at AC-8 / at 400 V / rated value • at AC-9 / at 400 V / rated value • at AC-1 / at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 / at 400 V / with rated operational current value / per conductor	• at 600 V / rated value	Α	0.16
• at 110 V / rated value • at 220 V / rated value • at 440 V / rated value • at 600 V / rated value • at AC-1 • at 230 V / rated value • at 400 V / rated value • at 400 V / rated value • at 400 V / rated value • at 690 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 • at 230 V / rated value • at AC-4 / at 400 V / rated value • at AC-4 / rated value • at AC-5 • at AC-6 / rated value • at AC-7 / rated value • at AC-7 / rated value • at AC-8 • at AC-9 / rated value • at A	• with 3 current paths in series / at DC-3 / at DC-5		
• at 220 V / rated value • at 440 V / rated value • at 440 V / rated value • at 600 V / rated value • at AC-1 • at 230 V / rated value • at 400 V / rated value • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 • at 230 V / rated value • at 400 V / rated value • at AC-3 • at 230 V / rated value • at AC-3 • 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 AC-4 / at 400 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 AC-4 / at 400 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 AC-4 / at 400 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 AC-4 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-3 / at 400 V / with rated operational current value / per conductor Off-load operating frequency • at AC	• at 24 V / rated value	Α	35
• at 440 V / rated value • at 600 V / rated value • at AC-1 • at 230 V / rated value • at 400 V / rated value • at 690 V / rated value • at 690 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 • at 230 V / rated value • at AC-0 / rated value • at AC-4 / at 400 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 AC-4 / at 400 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 AC-4 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-4 / at 400 V / with rated operational current value / per conductor Off-load operating frequency • at AC •	• at 110 V / rated value	Α	35
• at 600 V / rated value Service power • at AC-1 • at 230 V / rated value • at 400 V / rated value • at 690 V / rated value • at 690 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 • at 230 V / rated value • at AC-3 • at 230 V / rated value • at AC-4 • at 690 V / rated value • at 400 V / rated value • at 400 V / rated value • at 400 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 AC-4 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-4 / at 400 V / rated value Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor Off-load operating frequency • at AC	• at 220 V / rated value	Α	10
Service power	• at 440 V / rated value	Α	0.6
• at AC-1 • at 230 V / rated value • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 • at 230 V / rated value • at AC-3 • at 230 V / rated value • at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value • at AC-3 / at 400 V / rated value • at AC-4 / at 400 V / rated value Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor Off-load operating frequency • at AC 1/h 5,000	• at 600 V / rated value	Α	0.6
 at 230 V / rated value at 400 V / rated value at 500 V / rated value at 690 V / rated value at AC-2 / at 400 V / rated value at AC-3 at 230 V / rated value at 400 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 at AC-4 / at 400 V / rated value at AC-3 / at 400 V / with rated operational current value / per conductor Off-load operating frequency at AC 1/h 5,000 	Service power		
 at 400 V / rated value at 500 V / rated value at 690 V / rated value at 690 V / rated value at AC-2 / at 400 V / rated value at AC-3 at 230 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 AC-5 / at 400 V / with rated operational current value / per conductor Off-load operating frequency at AC 1/h 5,000 	• at AC-1		
 at 500 V / rated value at 690 V / rated value at AC-2 / at 400 V / rated value at AC-3 at 230 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 AC-3 / at 400 V / with rated operational current value / per conductor Off-load operating frequency at AC at AC at AC at AC at AC at AC 	• at 230 V / rated value	kW	13.3
• at 690 V / rated value	• at 400 V / rated value	kW	23
 at AC-2 / at 400 V / rated value at AC-3 at 230 V / rated value at 400 V / rated value at 690 V / rated value at AC-4 / at 400 V / rated value at AC-4 / at 400 V / rated value but AC-4 / at 400 V / rated value but AC-5 at AC-6 / at 400 V / with rated operational current value / per conductor Off-load operating frequency at AC at AC at AC-7 / at 400 V / with rated operational current value / per conductor at AC at AC at AC-7 / at 400 V / with rated operational current value / per conductor at AC at AC but AC 5.5 at AC-7 / at 400 V / with rated operational current value / per conductor at AC but AC 5.5 5.5 6.5 7.5 7.6 7.6 7.7 7.7	• at 500 V / rated value	kW	29
 at AC-3 at 230 V / rated value at 400 V / rated value at 690 V / rated value at AC-4 / at 400 V / rated value kW 5.5 Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor Off-load operating frequency at AC 1/h 5,000 	• at 690 V / rated value	kW	40
 at 230 V / rated value at 400 V / rated value at 690 V / rated value at AC-4 / at 400 V / rated value kW 5.5 Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor Off-load operating frequency at AC 1/h 5,000 	• at AC-2 / at 400 V / rated value	kW	5.5
 at 400 V / rated value at 690 V / rated value at AC-4 / at 400 V / rated value kW 5.5 Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor Off-load operating frequency at AC 1/h 5,000 	• at AC-3		
 at 690 V / rated value at AC-4 / at 400 V / rated value kW 5.5 Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor Off-load operating frequency at AC 1/h 5,000 	• at 230 V / rated value	kW	3
• at AC-4 / at 400 V / rated value Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor Off-load operating frequency • at AC 1/h 5,000	• at 400 V / rated value	kW	5.5
Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor Off-load operating frequency • at AC 1/h 5,000	• at 690 V / rated value	kW	7.5
Current value / per conductor Off-load operating frequency • at AC 1/h 5,000	• at AC-4 / at 400 V / rated value	kW	5.5
• at AC 1/h 5,000		W	0.5
	Off-load operating frequency		
• at DC 1/h 1,500	• at AC	1/h	5,000
	• at DC	1/h	1,500

Frequency of operation		
• at AC-1 / according to IEC 60947-6-2	1/h	1,000
• at AC-2 / according to IEC 60947-6-2	1/h	1,000
• at AC-3 / according to IEC 60947-6-2	1/h	1,000
• at AC-4 / according to IEC 60947-6-2	1/h	300

Control circuit:		
Design of the surge suppressor		with varistor
Type of voltage / of the controlled supply voltage		AC/DC
Control supply voltage		
• for DC		
• rated value	V	95 130
• at 50 Hz / at AC / rated value	V	110
• at 50 Hz / at AC		
• rated value	V	95 130
• at 60 Hz / at AC / rated value	V	110
• at 60 Hz / at AC		
rated value	V	95 130
operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz / for AC		0.7 1.3
• at 60 Hz / for AC		0.7 1.3
• for DC		0.7 1.3
Apparent pull-in power / of the solenoid / for AC	V-A	13.6
Apparent holding power / of the solenoid / for AC	V-A	1.9
Inductive power factor		
with the pull-in power of the coil		0.98
with the pull-in power of the coil		0.61
Pull-in power / of the solenoid / for DC	W	13.2
Holding power / of the solenoid / for DC	W	1.56
Closing delay		
• at AC	ms	50 70
• at DC	ms	50 70
Opening delay		
• at AC	ms	35 45
• at DC	ms	35 45
Arcing time	ms	10 10
Residual current / of electronics / for control with signal <0>		
• at 230 V / with AC / maximum permissible	mA	7
• at 24 V / with DC / maximum permissible	mA	16

Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous switching		1
Number of NO contacts / for auxiliary contacts / instantaneous switching		1
Operating current / of the auxiliary contacts		
• [nicht versorgt: PMD_ABP551_001_000]		
•	Α	2
• at 690 V	Α	1
UL/CSA ratings:		
yielded mechanical performance (hp)		
for single-phase squirrel cage motors		
• at 110/120 V / rated value	hp	1
• at 230 V / rated value	hp	2
for three-phase squirrel cage motors		
• at 200/208 V / rated value	hp	3
• at 220/230 V / rated value	hp	3
• at 460/480 V / rated value	hp	7.5
• at 575/600 V / rated value	hp	10
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	Α	11
• at 600 V / rated value	Α	11
Contact rating designation / for auxiliary contacts / according 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
for short-circuit protection of the main circuit		
with type of assignment 1 / required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 63 A
at type of coordination 2 / required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 25A
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
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Type of fixing/fixation / series installation		Yes
Width	mm	45

Height	mm	85
Depth	mm	107
Distance, to be maintained, to the ranks assembly / sidewards	mm	0

Connections:	
Design of the electrical connection	
• for main current circuit	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
Type of the connectable conductor cross-section	
• for main contacts	
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
• finely stranded	
 with conductor end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
• for AWG conductors / for main contacts	2x (16 12), 2x (14 8)
for auxiliary contacts	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• finely stranded	
 with conductor 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)

Sicherheitsrelevante Kenngrößen:		
B10 value / with high demand rate		
according to SN 31920		1,000,000
T1 value / for proof test interval or service life		
according to IEC 61508	а	20
Proportion of dangerous failures		
• with low demand rate / according to SN 31920	%	40
 with high demand rate / according to SN 31920 	%	73
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	100
Product function		
• mirror contact to IEC 60947-4-1		Yes
• comment		with 3RH29
 positively driven operation to IEC 60947-5-1 		No

Certificates/approvals:

General Product Approval

EMC

Functional Safety / Safety of Machinery











Type Examination

Declaration of Conformity

Test Certificates



<u>other</u> <u>Special Test</u> <u>Certificate</u>

Type Test
Certificates/Test
Report

Shipping Approval













Shipping Approval

other









Further information:

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

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

Industry Mall (Online ordering system)

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

Cax online generator

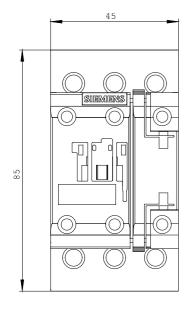
http://www.siemens.com/cax

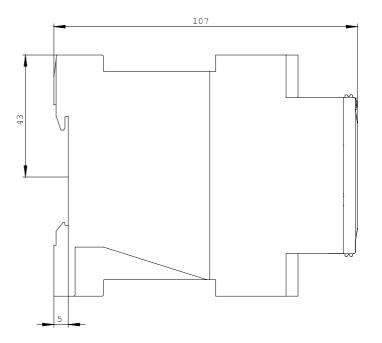
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

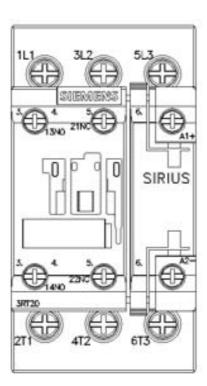
http://support.automation.siemens.com/WW/view/en/3RT2024-1NF30/all

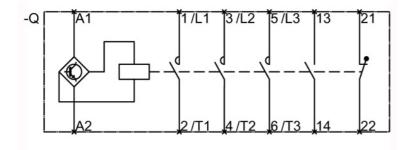
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2024-1NF30}$









last change: Feb 15, 2013