SIEMENS

Product data sheet

3RT2016-1AP02



CONTACTOR, AC-3, 4KW/400V, 1NC, AC 230V, 50/60 HZ, 3-POLE, SZ S00 SCREW TERMINAL

General technical data:			
product brand name		SIRIUS	
Size of the contactor		S00	
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		6,7g / 5 ms, 4,2g / 10 ms	
• at sine pulse			
• at AC		10,5g / 5 ms, 6,6g / 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		30,000,000
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	А	22
• at 60 °C ambient temperature / rated value	А	20
Connectable conductor cross-section / in main circuit	-	
• at AC-1		
• at 40 °C / minimum permissible	m²	4
• at 60 °C / minimum permissible	m²	2.5
Operational current		
• at AC-2 / at 400 V / rated value	А	9
• at AC-3		
• at 400 V / rated value	А	9
• at 500 V / rated value	А	7.7
• at 690 V / rated value	А	6.7
• at AC-4 / at 400 V / rated value	А	8.5
Operational current		
with 1 current path / at DC-1		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	2.1
• at 220 V / rated value	А	0.8
• at 440 V / rated value	А	0.6
• at 600 V / rated value	А	0.6
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	12
• at 220 V / rated value	А	1.6
• at 440 V / rated value	А	0.8
• at 600 V / rated value	А	0.7
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	А	20
• at 110 V / rated value	А	20

• with 1 current path / at DC-3 / at DC-5 A 20 • at 10 V / rated value A 0.1 • with 2 current paths in series / at DC-3 / at DC-5 - • at 24 V / rated value A 20 • at 10 V / rated value A 20 • at 10 V / rated value A 20 • at 10 V / rated value A 20 • at 24 V / rated value A 20 • at 10 V / rated value A 20 • at 22 V / rated value A 20 • at 22 V / rated value A 20 • at 40 V / rated value A 0.2 • at 40 V / rated value A 0.2 • at 400 V / rated value KW 7.5 • at 400 V / rated value KW 13 • at 300 V / rated value KW 14 • at 400 V / rated value KW 14 • at 400 V / rated value KW 14 • at 400 V / rated value KW 14 • at 400 V / rated value KW 14 <t< th=""><th></th><th></th><th></th></t<>			
• at 600 V / rated valueA1Operational currentA0• with 1 current path / at 0C3 / at DC-5A0• at 10 V / rated valueA0.1• with 2 current paths in series / at DC-3 / at DC-5-• at 24 V / rated valueA0.1• with 3 current paths in series / at DC-3 / at DC-5-• at 10 V / rated valueA0.1• with 3 current paths in series / at DC-3 / at DC-5-• at 24 V / rated valueA20• at 40 V / rated valueA20• at 40 V / rated valueA20• at 400 V / rated valueA20• at 600 V / rated valueA20• at 600 V / rated valueA0.1• at 600 V / rated valueA20• at 600 V / rated valueA0.1• at 600 V / rated valueA0.2• at 600 V / rated valueKW7.5• at 600 V / rated valueKW17• at 600 V / rated valueKW22• at 600 V / rated valueKW22• at 600 V / rated valueKW22• at 600 V / rated valueKW4• at 600 V / rated valueKW17• at 600 V / rated valueKW22• at 600 V / rated valueKW22• at 600 V / rated valueKW4• at 600 V / rated valueKW4• at 600 V / rated valueKW4• at 600 V / rated valueKW5• at 600	• at 220 V / rated value	А	20
Operational current Image: current path / at DC-3 / at DC-5 • at 24 V / rated value A 20 • at 110 V / rated value A 20 • with 2 current paths in series / at DC-3 / at DC-5 - - • at 24 V / rated value A 20 • at 24 V / rated value A 20 • 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 110 V / rated value A 20 • at 24 V / rated value A 20 • at 24 V / rated value A 20 • at 20 V / rated value A 15 • at 20 V / rated value A 10 • at AC-1 A 02 • at 20 V / rated value KW 13 • at 20 V / rated value KW 12 • at AC-3 KW 22 • at AC-3 KW 4 • at AC-3 / rat 400 V / rated value	• at 440 V / rated value	А	1.3
• with 1 current path / at DC-3 / at DC-5 A 20 • at 10 V / rated value A 0.1 • with 2 current paths in series / at DC-3 / at DC-5 - • at 24 V / rated value A 0.35 • at 10 V / rated value A 0.35 • with 3 current paths in series / at DC-3 / at DC-5 - • at 24 V / rated value A 20 • at 24 V / rated value A 0.35 • with 3 current paths in series / at DC-3 / at DC-5 - • at 220 V / rated value A 20 • at 400 V / rated value A 0.2 • at 400 V / rated value A 0.2 • at 600 V / rated value KW 13 • at 600 V / rated value KW 13 • at 600 V / rated value KW 14 • at 600 V / rated value KW 14 • at 600 V / rated value KW 4 • at 600 V / rated value KW 4 • at 600 V / rated value KW 4 • at 600 V / rated value KW 4 <	• at 600 V / rated value	А	1
• a1 24 V / rated valueA20• at 110 V / rated valueA0.1• with 2 current paths in series / at DC-3 / at DC-5-• at 24 V / rated valueA20• at 110 V / rated valueA20• at 24 V / rated valueA20• at 24 V / rated valueA20• at 24 V / rated valueA20• at 20 V / rated valueA20• at 20 V / rated valueA0.2• at 20 V / rated valueA0.2• at 600 V / rated valueA0.2• at 600 V / rated valueKW7.5• at 600 V / rated valueKW13• at 200 V / rated valueKW13• at 200 V / rated valueKW12• at 600 V / rated valueKW12• at 600 V / rated valueKW22• at 600 V / rated valueKW5.5• at 600 V / rated valueKW5.5• at 600 V / rated valueKW10,000• at 600 V / rated valueKW10,000• at 600 V / rated valueI10,000• at 600 V rated va	Operational current		
• at 110 V / rated value A 0.1 • at 24 V / rated value A 20 • at 110 V / rated value A 0.35 • at 24 V / rated value A 20 • at 24 V / rated value A 0.35 • at 24 V / rated value A 20 • at 24 V / rated value A 20 • at 22 V / rated value A 20 • at 22 V / rated value A 20 • at 22 V / rated value A 0.2 • at 220 V / rated value A 0.2 • at 230 V / rated value A 0.2 • at 230 V / rated value KW 7.5 • at 300 V / rated value KW 13 • at 300 V / rated value KW 12 • at 300 V / rated value KW 22 • at 300 V / rated value KW 22 • at 300 V / rated value KW 24 • at 300 V / rated value KW 25 • at 300 V / rated value KW 35 • at 300 V / rated value KW 36 • at 300 V / rated value	• with 1 current path / at DC-3 / at DC-5		
• with 2 current paths in series / at DC-3 / at DC-5 A 20 • at 24 V / rated value A 0.35 • with 3 current paths in series / at DC-3 / at DC-5 - • at 24 V / rated value A 20 • at 110 V / rated value A 20 • at 24 V / rated value A 20 • at 24 V / rated value A 20 • at 20 V / rated value A 0.2 • at 200 V / rated value A 0.2 • at 800 V / rated value A 0.2 • at 300 V / rated value KW 7.5 • at 300 V / rated value KW 13 • at 300 V / rated value KW 14 • at 300 V / rated value KW 14 • at 300 V / rated value KW 14 • at 300 V / rated value KW 14 • at 300 V / rated value KW 14 • at 300 V / rated value KW 14 • at 300 V / rated value KW 14 • at 300 V / rated value KW 14 <td>• at 24 V / rated value</td> <td>А</td> <td>20</td>	• at 24 V / rated value	А	20
• at 24 V / rated value A 20 • at 110 V / rated value A 0.35 • with 3 current paths in series / at DC-3 / at DC-5 - • at 24 V / rated value A 20 • at 24 V / rated value A 20 • at 20 V / rated value A 20 • at 20 V / rated value A 0.2 • at 40 V / rated value A 0.2 • at 600 V / rated value KW 7.5 • at 320 V / rated value KW 13 • at 320 V / rated value KW 13 • at 320 V / rated value KW 12 • at 320 V / rated value KW 12 • at 320 V / rated value KW 12 • at 320 V / rated value KW 12 • at 4.02 / rated value KW 12 • at 4.02 / rated value KW 12 • at 4.02 / rated value KW 12 • at 4.00 V / rated value KW 12 • at 4.00 V / rated value KW 14 • at 4.00 V / rated value KW 14 • at 6.90 V / rated	• at 110 V / rated value	А	0.1
• at 110 V / rated valueA0.35• with 3 current paths in series / at DC-3 / at DC-5A20• at 24 V / rated valueA20• at 220 V / rated valueA15• at 220 V / rated valueA0.2• at 600 V / rated valueA0.2• at 600 V / rated valueA0.2• at 800 V / rated valueKW7.5• at 800 V / rated valueKW13• at 800 V / rated valueKW13• at 300 V / rated valueKW13• at 600 V / rated valueKW13• at 800 V / rated valueKW13• at 800 V / rated valueKW14• at 800 V / rated valueKW14• at 800 V / rated valueKW15• at 800 V / rated valueKW22• at 800 V / rated valueKW22• at 800 V / rated valueKW4• at 800 V / rated valueKW55• at 400 V / rated valueKW4• at 800 V / rated valueKW4• at 800 V / rated valueKW4• at 800 V / rated valueKW55• at 41 to 0 / rated valueKW10,000• at 800 V / rated valueM10,000• at 800 V / rated valueM10,000	• with 2 current paths in series / at DC-3 / at DC-5		
• with 3 current paths in series / at DC-3 / at DC-5Image: Comparison of the series / at DC-3 / at DC-5• at 24 V / rated valueA20• at 10 V / rated valueA1.5• at 220 V / rated valueA0.2• at 400 V / rated valueA0.2• at 600 V / rated valueKW7.5• at AC-1KW7.5• at AC-1 / according to EEC 60947-6-2KW13• at AC-2 / according to EEC 60947-6-2KW22• at AC-3 / according to EEC 60947-6-2KW2.2• at AC-4 / according to EEC 60947-6-21/h1.000• at AC-3 / according to EEC 60947-6-21/h1.000• at AC-3 / according to EEC 60947-6-21/h750• at AC-4 / according to EEC 60947-6-21/h750 <tr <td="">1/h<</tr>	• at 24 V / rated value	А	20
+ al 24 V/rated valueA20• at 110 V/rated valueA15• at 220 V/rated valueA0.2• at 400 V/rated valueA0.2• at 600 V/rated valueA0.2• at AC-1• at 230 V/rated valueKW7.5• at 400 V/rated valueKW13• at 300 V/rated valueKW13• at 600 V/rated valueKW22• at AC-2/rated valueKW22• at AC-3/rated valueKW22• at AC-3/rated valueKW22• at AC-3/rated valueKW4• at 230 V/rated valueKW5.5• at AC-3/rated valueKW5.5• at AC-3/rated valueKW4• at AC-3/rated valueKW4• at AC-1/raccording to IEC 60947-6-21/h10.000• at AC-1/according to IEC 60947-6-21/h750• at AC-3/raccording to IEC 60947-6-21/h750• at AC-4/raccording to IEC 60947-6-21/h750 </td <td>• at 110 V / rated value</td> <td>А</td> <td>0.35</td>	• at 110 V / rated value	А	0.35
• at 110 V / rated valueA20• at 220 V / rated valueA1.5• at 440 V / rated valueA0.2• at 600 V / rated valueA0.2• at 600 V / rated valueA0.2• at AC-1	• with 3 current paths in series / at DC-3 / at DC-5		
• at 220 V / rated value A 1.5 • at 440 V / rated value A 0.2 • at 600 V / rated value A 0.2 • at 600 V / rated value A 0.2 • at 230 V / rated value KW 7.5 • at 400 V / rated value KW 13 • at 200 V / rated value KW 17 • at 600 V / rated value KW 22 • at 600 V / rated value KW 22 • at 600 V / rated value KW 4 • at 230 V / rated value KW 4 • at 600 V / rated value KW 22 • at AC-2 / at 400 V / rated value KW 4 • at 230 V / rated value KW 4 • at 230 V / rated value KW 4 • at 400 V / rated value KW 4 • at 600 V / rated value KW 4 • at 600 V / rated value KW 4 • at AC-3 / at 400 V / with rated operational current value / per conductor W 0.7 • at AC-1 / according to IEC 60947-6-2 1/h 10,000 • at AC-1 / according to IEC 60947-6-2 <td>• at 24 V / rated value</td> <td>А</td> <td>20</td>	• at 24 V / rated value	А	20
• at 440 V/rated value A 0.2 • at 600 V/rated value A 0.2 service power • at 230 V/rated value KW 7.5 • at 230 V/rated value KW 13 • at 400 V/rated value KW 17 • at 690 V/rated value KW 22 • at 600 V/rated value KW 22 • at AC-2/ at 400 V/rated value KW 4 • at 230 V/rated value KW 22 • at 230 V/rated value KW 4 • at 400 V/rated value KW 4 • at 600 V/rated value KW 4 • at 62-4 / at 00 V/rated value KW 4 • at 62-4 / according to LEC 60947-6-2 N 0.000 • at AC 10,000 10,000 • at AC-1 / ac	• at 110 V / rated value	А	20
• at 600 V/ rated value A 0.2 Service power	• at 220 V / rated value	А	1.5
Service powerImage: service power• at AC-1KW• at 230 V/ rated valueKW• at 230 V/ rated valueKW• at 400 V/ rated valueKW• at 600 V/ rated valueKW• at 600 V/ rated valueKW• at 600 V/ rated valueKW• at AC-2 / at 400 V/ rated valueKW• at AC-3KW• at 230 V/ rated valueKW• at AC-3KW• at 600 V/ rated valueKW• at 600 KK• at 600 KK•	• at 440 V / rated value	А	0.2
• at AC-1 KW 7.5 • at 230 V / rated value KW 13 • at 500 V / rated value KW 17 • at 600 V / rated value KW 22 • at 600 V / rated value KW 22 • at AC-2 / at 400 V / rated value KW 4 • at AC-3 - - • at 230 V / rated value KW 2.2 • at AC-3 - - • at 230 V / rated value KW 4 • at 230 V / rated value KW 4 • at 400 V / rated value KW 4 • at 690 V / rated value KW 4 • at 690 V / rated value KW 4 • at 600 V / rated value KW 4 • at 600 V / rated value KW 5.5 • at AC-4 / at 400 V / rated value W 0.7 • at AC-4 / at 400 V / rated value W 0.7 • at AC 1 // h 10,000 • at AC 1 // h 10,000 • at AC-1 / according to IEC 60947-6-2 1 // h 1,000 • at AC-1 / according to IEC 60947-6-2 </td <td>• at 600 V / rated value</td> <td>А</td> <td>0.2</td>	• at 600 V / rated value	А	0.2
• at 230 V / rated valueKW7.5• at 400 V / rated valueKW13• at 500 V / rated valueKW17• at 690 V / rated valueKW22• at 600 V / rated valueKW4• at AC-2 / at 400 V / rated valueKW4• at AC-3• at 230 V / rated valueKW2.2• at 400 V / rated valueKW4• at 400 V / rated valueKW4• at 400 V / rated valueKW5.5• at 400 V / rated valueKW4• at 690 V / rated valueKW4• at 690 V / rated valueKW4• at 600 V / rated valueKW4• at 600 V / rated valueKW10• at 62-4 / at 400 V / rated valueKW10• at 62-4 / at 400 V / rated valueKW10• at AC-4 / at 400 V / rated valueKW10• at AC-4 / at 400 V / rated valueKW10• at AC-4 / at 400 V / rated valueKW10• at AC-4 / at 400 V / rated valueKW10• at AC-4 / at 400 V / rated valueKW10• at AC-4 / according to IEC 60947-6-21/h10,000• at AC-1 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / accor	Service power		
• at 400 V / rated value kW 13 • at 500 V / rated value kW 17 • at 690 V / rated value kW 22 • at AC-2 / at 400 V / rated value kW 4 • at AC-3 - - • at 230 V / rated value kW 2.2 • at AC-3 - - • at 230 V / rated value kW 4 • at AC-3 - - • at 400 V / rated value kW 4 • at 690 V / rated value kW 4 • at 600 V / rated value kW 4 • at 600 V / rated value kW 4 • at 600 V / rated value kW 4 • at 600 V / rated value kW 4 Active power loss / at AC-3 / at 400 V / with rated operational W 9.7 • at AC 14 10,000 10 • at AC 1/h 10,000 10 • at AC-1 / according to IEC 60947-6-2 1/h 1,000 • at AC-2 / according to IEC 60947-6-2 1/h 750 • at AC-3 / according to IEC 60947-6-2 1/h 550 <td>• at AC-1</td> <td></td> <td></td>	• at AC-1		
• at 500 V / rated value kW 17 • at 690 V / rated value kW 22 • at AC-2 / at 400 V / rated value kW 4 • at AC-3 - - • at 230 V / rated value kW 2.2 • at 200 V / rated value kW 2.2 • at 400 V / rated value kW 4 • at 690 V / rated value kW 4 • at 690 V / rated value kW 4 • at 600 V / rated value kW 4 • at 600 V / rated value kW 4 • at AC-4 / at 400 V / rated value kW 4 • at AC-4 / at 400 V / rated value kW 4 current value / per conductor W 0.7 Off-load operating frequency 1/h 10,000 • at AC 1/h 10,000 • at AC-1 / according to IEC 60947-6-2 1/h 1,000 • at AC-2 / according to IEC 60947-6-2 1/h 750 • at AC-3 / according to IEC 60947-6-2 1/h 750 • at AC-4 / according to IEC 60947-6-2 1/h 750 • at AC-4 / according to IEC 60947-6-2 </td <td>• at 230 V / rated value</td> <td>kW</td> <td>7.5</td>	• at 230 V / rated value	kW	7.5
• at 690 V / rated valuekW22• at AC-2 / at 400 V / rated valuekW4• at AC-3kW2.2• at 230 V / rated valuekW2.2• at 400 V / rated valuekW4• at 690 V / rated valuekW5.5• at 690 V / rated valuekW4• at 690 V / rated valuekW6• at AC-4 / at 400 V / rated valuekW6• at AC-4 / at 400 V / rated valuekW6• at AC-4 / at 400 V / rated valuew0.7• at AC-4 / at 400 V / rated valueW0.7• at AC1/h10,000• at AC1/h10,000• at AC1/h10,000• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-1 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h250	• at 400 V / rated value	kW	13
• at AC-2 / at 400 V / rated valueRW4• at AC-3KW2.2• at 230 V / rated valueKW4• at 400 V / rated valueKW4• at 690 V / rated valueKW5.5• at AC-4 / at 400 V / rated valueKW4• at AC-4 / at 400 V / rated valueKW6.7• at AC-4 / at 400 V / rated valueKW6.7• at AC-4 / at 400 V / with rated operational current value / per conductorW0.7• at AC1/h10,000• at AC1/h10,000• at AC1/h10,000• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-1 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h750	• at 500 V / rated value	kW	17
• at AC-3Image: constraint of the second	• at 690 V / rated value	kW	22
• at 230 V / rated valueRW2.2• at 400 V / rated valueKW4• at 690 V / rated valueKW5.5• at AC-4 / at 400 V / rated valueKW4Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.7Off-load operating frequencyVV• at AC1/h10,000• at AC1/h10,000• at AC1/h10,000• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h750	• at AC-2 / at 400 V / rated value	kW	4
• at 400 V / rated valuekW4• at 690 V / rated valuekW5.5• at AC-4 / at 400 V / rated valuekW4Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.7Off-load operating frequency• at AC1/h10,000• at AC1/h10,000• at AC1/h10,000• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h250	• at AC-3		
• at 690 V / rated valueKW5.5• at AC-4 / at 400 V / rated valueKW4Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.7Off-load operating frequency• at AC1/h10,000• at AC1/h10,000• at AC1/h10,000• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h250	• at 230 V / rated value	kW	2.2
• at AC-4 / at 400 V / rated valueKW4Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.7Off-load operating frequency• at AC1/h10,000• at AC1/h10,000• at DC1/h10,000Frequency of operation-• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h250	• at 400 V / rated value	kW	4
Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.7Off-load operating frequencyII• at AC1/h10,000• at DC1/h10,000Frequency of operation1/h10,000• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h250	• at 690 V / rated value	kW	5.5
current value / per conductorImage: conductorOff-load operating frequencyImage: conductor• at AC1/h10,000• at DC1/h10,000Frequency of operationImage: conductor• at AC-1 / according to IEC 60947-6-21/h1,000• at AC-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h250	• at AC-4 / at 400 V / rated value	kW	4
• at AC 1/h 10,000 • at DC 1/h 10,000 Frequency of operation 1/h 10,000 • at AC-1 / according to IEC 60947-6-2 1/h 1,000 • at AC-2 / according to IEC 60947-6-2 1/h 750 • at AC-3 / according to IEC 60947-6-2 1/h 750 • at AC-4 / according to IEC 60947-6-2 1/h 250	Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor	W	0.7
• at DC 1/h 10,000 Frequency of operation I Image: Comparison of the comparison of th	Off-load operating frequency		
Frequency of operation Image: mail of the state of	• at AC	1/h	10,000
• at AC-1 / according to IEC 60947-6-2 1/h 1,000 • at AC-2 / according to IEC 60947-6-2 1/h 750 • at AC-3 / according to IEC 60947-6-2 1/h 750 • at AC-4 / according to IEC 60947-6-2 1/h 250	• at DC	1/h	10,000
• at AC-2 / according to IEC 60947-6-2 1/h 750 • at AC-3 / according to IEC 60947-6-2 1/h 750 • at AC-4 / according to IEC 60947-6-2 1/h 250	Frequency of operation		
• at AC-3 / according to IEC 60947-6-2 1/h 750 • at AC-4 / according to IEC 60947-6-2 1/h 250	• at AC-1 / according to IEC 60947-6-2	1/h	1,000
• at AC-4 / according to IEC 60947-6-2 1/h 250	• at AC-2 / according to IEC 60947-6-2	1/h	750
-	• at AC-3 / according to IEC 60947-6-2	1/h	750
Control circuit:	• at AC-4 / according to IEC 60947-6-2	1/h	250
	Control circuit:		

Type of voltage / of the controlled supply voltage	_	AC	
Control supply voltage	-		
• at 50 Hz / at AC / rated value	V	230	
• at 60 Hz / at AC / rated value	V	230	
operating range factor control supply voltage rated value / of the magnet coil			
• at 50 Hz / for AC		0.8 1.1	
• at 60 Hz / for AC		0.85 1.1	
Apparent pull-in power / of the solenoid / for AC	V·A	27	
Apparent holding power / of the solenoid / for AC	V·A	4.2	
Inductive power factor			
• with the pull-in power of the coil		0.8	
• with the pull-in power of the coil		0.25	
Closing delay			
• at AC	ms	935	
Opening delay			
• at AC	ms	3.5 14	
Arcing time	ms	10 15	
Residual current / of electronics / for control with signal <0>			
• at 230 V / with AC / maximum permissible	mA	3	
• at 24 V / with DC / maximum permissible	mA	10	
Auxiliary circuit:			
Contact reliability / of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)			

UL/CSA ratings:		
yielded mechanical performance (hp)		
 for single-phase squirrel cage motors 		
• at 110/120 V / rated value	hp	0.33
• at 230 V / rated value	hp	1
 for three-phase squirrel cage motors 		
• at 200/208 V / rated value	hp	2
• at 220/230 V / rated value	hp	3

• at 460/480 V / rated value	hp	5
• at 575/600 V / rated value	hp	7.5
Operating current (FLA) / for three-phase squirrel cage motors		
• at 480 V / rated value	А	7.6
• at 600 V / rated value	А	9
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: 35 A
at type of coordination 2 / required		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20A
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	57.5
Depth	mm	73
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 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
finely stranded		
with conductor end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG conductors / for main contacts		2x (20 16), 2x (18 14), 2x 12
for auxiliary contacts		
• solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
finely stranded		
with conductor end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)

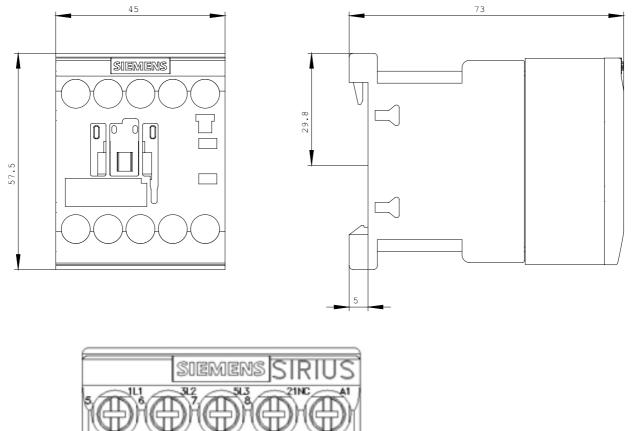
 for AWG conductors 	s / for auxiliary conta	icts		2x (20 16), 2x (18 14), 2x 12		
Sicherheitsrelevante Kenngrößen:						
B10 value / with high d	lemand rate					
 according to SN 319 	920			1,000,000		
T1 value / for proof tes	t interval or servic	e life	_			
 according to IEC 61 	508		а	20		
Proportion of dangero	us failures					
 with low demand rate 	te / according to SN	31920	%	40		
 with high demand rate 	ate / according to SN	31920	%	73		
Failure rate (FIT value)	/ with low demand	l rate				
according to SN 319	920		FIT	100		
Product function						
 mirror contact to IEC 	C 60947-4-1			Yes		
 positively driven operatively 	eration to IEC 60947	'-5-1		No		
Certificates/approva						
General Product App					Functional Safety / Safety of Machinery	Declaration of Conformity
	CSA	GOST			Type Examination	EG-Konf.
Test Certificates						
Special Test Certificate						
Shipping Approval						
ABS	B U R E A U VERITAS	ŮŇ DNV	GL GL		Llovd's Kegister LRS	PRS
Shipping Approval		other				
RINA	RMRS	<u>Confirmation</u>				
Further information:	:					
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs						
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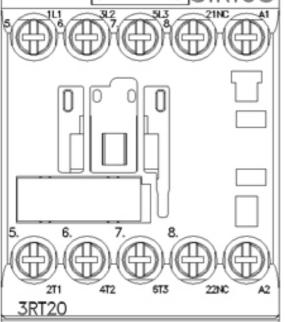
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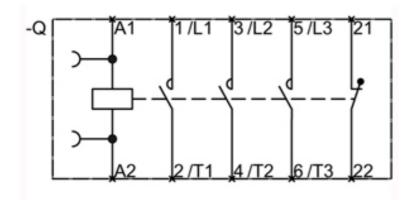
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last change:

Feb 15, 2013