SIEMENS

Product data sheet

3RT2016-1BB42-ZW97



CONTACTOR, AC-3, 4KW/400V, 1NC, DC 24V, 3-POLE, SZ S00 SCREW TERMINAL MULTI-UNIT PACKAGING PACKAGE = 40 UNITS

General technical data:		
product brand name		SIRIUS
Size of the contactor		\$00
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 DC		6,7g / 5 ms, 4,2g / 10 ms
• at sine pulse		
• at DC		10,5g / 5 ms, 6,6g / 10 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690

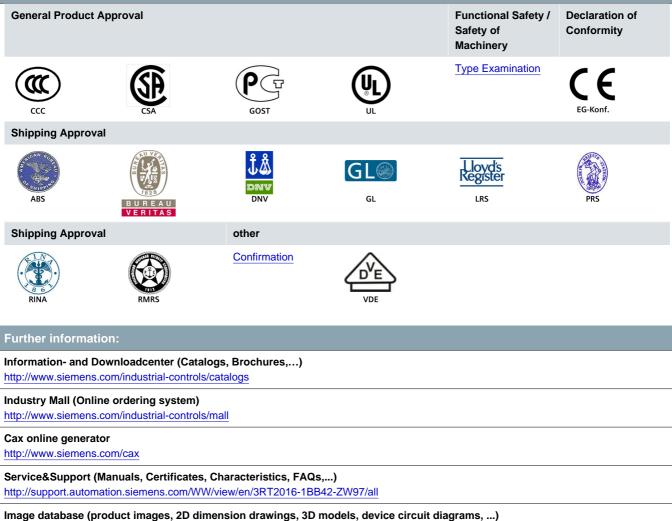
Maximum permissible voltage for protective separation /	V	400
between coil and main contacts / in accordance with EN 60947-1		
Mechanical operating cycles as operating time		
of the contactor / typical		30,000,000
 of the contactor with added auxiliary switch block / typical 		10,000,000
 of the contactor 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

• at 20 V / rated value A 20 • at 40 V / rated value A 1.3 • at 60 V / rated value A 1 • with 1 current path / at DC-3 / at DC-5 - - • with 1 current path / at DC-3 / at DC-5 - - • 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 110 V / rated value A 20 • at 24 V / rated value A 20 • at 24 V / rated value A 20 • at 24 V / rated value A 20 • at 400 V / rated value A 20 • at 400 V / rated value A 20 • at 400 V / rated value A 0.2 • at 400 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 22 • at 300 V / rated value KW 4 • at 300 V /			
• at 600 V / rated value A 1 Operational current	• at 220 V / rated value	А	20
Operational currentImage: constraint of a DC-3 at DC-5• ei 24 V / rated valueA• ei 110 V / rated valueA• with 2 current paths in series / at DC-3 / at DC-5 $-$ • ei 24 V / rated valueA• ei 24 V / rated valueA• at 110 V / rated valueA• at 110 V / rated valueA• at 120 V / rated valueA• at 120 V / rated valueA• at 24 V / rated valueA• at 24 V / rated valueA• at 24 V / rated valueA• at 240 V / rated valueA• at 250 V / rated valueA• at 250 V / rated valueKW• at 320 V / rated value	• at 440 V / rated value	А	1.3
• with 1 current path / at DC-3 / at DC-5 A 20 • at 24 V / rated value A 0.1 • at 110 V / rated value A 0.3 • at 24 V / rated value A 0.35 • at 10 V / rated value A 20 • at 10 V / rated value A 0.35 • at 10 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 20 • at 200 V / rated value A 20 • at 600 V / rated value A 0.2 • at 600 V / rated value A 0.2 • at 600 V / rated value KW 13 • at 600 V / rated value KW 14 • at 600 V / rated value KW 22 • 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 5 •	• at 600 V / rated value	А	1
+ at 24 V / rated value A 20 - at 110 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 110 V / rated value A 20 • 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 20 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 12 • at 600 V / rated value KW 12 • at 600 V / rated value KW 12 • at 200 V / rated value KW 12 • at 600 V / rated value KW 12 • at 600 V / rated value KW 12 • at 600 V / rated value KW 12 • at 600 V / rated value KW 12	Operational current		
• • • • 110 V / rated value A 0.1 • • • • • • • • • • • • • • • • • • •	• with 1 current path / at DC-3 / at DC-5		
• with 2 current paths in series / at DC-3/ at DC-5I• at 110 V/ rated valueA0.35• with 3 current paths in series / at DC-3/ at DC-5-• at 24 V/ rated valueA20• at 24 V/ rated valueA20• at 24 V/ rated valueA20• at 24 V/ rated valueA15• at 20 V/ rated valueA0.2• at 40 V/ rated valueA0.2• at 40 V/ rated valueKW0.2• at 400 V/ rated valueKW7.5• at 400 V/ rated valueKW13• at 230 V/ rated valueKW13• at 600 V/ rated valueKW13• at 600 V/ rated valueKW13• at 600 V/ rated valueKW22• at 600 V/ rated valueKW22• at 600 V/ rated valueKW22• at 600 V/ rated valueKW4• at 600 V/ rated valueKW4• at 600 V/ rated valueKW5.5• at 600 V/ rated valueKW4• at 600 V/ rated valueKW5.5• at 600 V/ rated valueKW10,000• at 600 V/ rated valueKW <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 220 V/ rated value A 20 • at 220 V/ rated value A 0.2 • at 400 V/ rated value A 0.2 • at 600 V/ rated value KW 7.5 • at 230 V/ rated value KW 13 • at 200 V/ rated value KW 13 • at 300 V/ rated value KW 13 • at 600 V/ rated value KW 12 • at 300 V/ rated value KW 13 • at 300 V/ rated value KW 12 • at 300 V/ rated value KW 12 • at 400 V / rated value KW 12 • at 400 V / rated value KW 12 • at 400 V / rated value KW 12 • at 400 V / rated value KW 12 • at 400 V / rated value KW 14 • at 400 V / rated value KW 14 • at 690 V / rated value <td>• at 110 V / rated value</td> <td>А</td> <td>0.1</td>	• at 110 V / rated value	А	0.1
• at 10 V / rated valueA0.35• with 3 current paths in series / at DC-3 / at DC-5A20• at 24 V / rated valueA20• at 10 V / rated valueA15• at 220 V / rated valueA0.2• at 400 V / rated valueA0.2• at 600 V / rated valueA0.2• at AC-1-7.5• at AC-1-7.5• at AC-1KWW7.5• at AC-2 / at 400 V / rated valueKWW13• at 600 V / rated valueKWW13• at 600 V / rated valueKWW12• at AC-3KWW12• at 600 V / rated valueKWW22• at AC-3 / at 400 V / rated valueKWW22• at AC-3 / at 400 V / rated valueKWW22• at AC-3 / at 400 V / rated valueKWW4• at AC-3 / at 400 V / rated valueKWW5.5• at AC-4 / at 00 V / rated valueKWW5.5• at AC-4 / at 00 V / rated valueKWW4• at AC-4 / at 00 V / rated valueKWW4• at AC-4 / at 00 V / rated valueKWW5.5• at AC-4 / at 00 V / rated valueMWW5.5• at AC-1 / according to IEC 60947-621/h10,000• at AC-1 / according to IEC 60947-621/h10,000• at AC-1 / according to IEC 60947-621/h750• at AC-3 / according to IEC 60947-621/h750• at AC-3 / according to IEC 60947-621/h250• at AC-4 / accord	• with 2 current paths in series / at DC-3 / at DC-5		
• with 3 current paths in series / at DC-3 / at DC-5 A 20 • at 24 V / rated value A 20 • at 100 V / rated value A 20 • at 220 V / rated value A 0.2 • at 400 V / rated value A 0.2 • at 400 V / rated value A 0.2 • at 400 V / rated value KW 7.5 • at 230 V / rated value KW 7.5 • at 230 V / rated value KW 13 • at 320 V / rated value KW 13 • at 230 V / rated value KW 14 • at 230 V / rated value KW 14 • at 300 V / rated value KW 14 • at 230 V / rated value KW 14 • at 230 V / rated value KW 14 • at 230 V / rated value KW 14 • at 230 V / rated value KW 14 • at 230 V / rated value KW 14 • at 230 V / rated value KW 14 • at 230 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 valueA20• at 100 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 110 V / rated value	А	0.35
• at 110 V/rated value A 20 • 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 AC-1 - - • at 230 V/rated value KW 7.5 • at 400 V/rated value KW 13 • at 300 V/rated value KW 17 • at 600 V/rated value KW 22 • at AC-2 / at 400 V/rated value KW 22 • at AC-3 - - • at 230 V/rated value KW 4 • at AC-3 / at 400 V/rated value KW 22 • at AC-3 / at 400 V/rated value KW 4 • at AC-3 / at 400 V/rated value KW 4 • at AC-3 / at 400 V/rated value KW 4 • at AC-4 / at A00 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 • at AC-4 / at A00 V/rated value KW 4 • at AC-1 / according to EC 60947-6-2 1/h 1,000	• 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 Service power - - • at 230 V/rated value KW 7.5 • 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 230 V/rated value KW 4 • at 230 V/rated value KW 22 • at AC-3 - - • at 400 V/rated value KW 4 • at 400 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 600 V/rated value KW 10.000 • 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 750 <td>• at 24 V / rated value</td> <td>А</td> <td>20</td>	• at 24 V / rated value	А	20
+ at 440 V / rated valueA0.2at 600 V / rated valueA0.2Service power• at 230 V / rated valueKW7.5• at 230 V / rated valueKW13• at 400 V / rated valueKW13• at 500 V / rated valueKW22• at 600 V / rated valueKW22• at 600 V / rated valueKW4• at AC-2 / at 400 V / rated valueKW22• at AC-3 / at 400 V / rated valueKW22• at 400 V / rated valueKW4• at 230 V / rated valueKW4• at 400 V / rated valueKW5.5• at 400 V / rated valueKW4• at 690 V / rated valueKW6.5• 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/h50• at AC-3 / according to IEC 60947-6-21/h50• at AC-4 / acco	• at 110 V / rated value	А	20
• at 600 V / rated valueA0.2Service power	• at 220 V / rated value	А	1.5
Service power Image: service power • at AC-1 KW 7.5 • at 30 V / rated value KW 13 • at 400 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 22 • at 600 V / rated value KW 22 • at AC-3 KW 22 • at AC-3 value KW 22 • at AC-3 value KW 22 • at AC-3 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 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 W 0.7 • at 600 V / rated value M 10,000 • at AC per conductor 1/h <td< td=""><td>• at 440 V / rated value</td><td>А</td><td>0.2</td></td<>	• at 440 V / rated value	А	0.2
• 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 690 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 600 V/rated value KW 4 • at 62 / at 400 V/rated value KW 10,000 • at AC 1/h 10,000 1/h • at AC 1/h 1,000	• at 600 V / rated value	А	0.2
• at 230 V / rated value KW 7.5 • at 400 V / rated value KW 13 • at 500 V / rated value KW 17 • at 690 V / rated value KW 22 • at 690 V / rated value KW 4 • at 230 V / rated value KW 4 • 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 230 V / rated value KW 4 • at 200 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 690 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 • at AC-4 / at 400 V / rated value KW 10,000 • at AC 1/h 10,000 1/h • at AC-1 / according to IEC 60947-6-2 1/h 1,00	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 400 V / rated value kW 4 • at 690 V / rated value kW 4 • at 690 V / rated value kW 4 • at 690 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 • at AC-4 / at 400 V / rated value kW 4 • at AC-4 / at 400 V / rated value kW 10,000 • at AC 1/h 10,000 1/h • at AC 1/h 10,000 1/h • 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 <td< td=""><td>• at AC-1</td><td></td><td></td></td<>	• at AC-1		
• at 500 V / rated valuekW17• at 690 V / rated valuekW22• at AC-2 / at 400 V / rated valuekW4• at AC-3xW2.2• at 230 V / rated valuekW4• at 200 V / rated valuekW4• at 690 V / rated valuekW5.5• at 690 V / rated valuekW5.5• at 690 V / rated valuekW4• at 690 V / rated valuekW6.5• at 690 V / rated valuekW6.5• at AC-4 / at 400 V / rated valuekW6.5• at AC-4 / at 400 V / rated valuekW6.7• at AC-4 / at 400 V / rated valuekW10.000• at AC1/h10.000• at AC1/h10.000• at AC11.000• at AC-1 / according to IEC 60947-6-21/h750• 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 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 690 V / rated valuekW4• at 690 V / rated valuekW5.5• at 690 V / rated valuekW4• at 690 V / rated valuekW6.5• at AC-4 / at 400 V / rated valuekW6.5• at AC-4 / at 400 V / rated valuekW6.5• at AC-4 / at 400 V / rated valuekW6.7• 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-2 / according to IEC 60947-6-21/h750• at AC-3 / according to IEC 60947-6-21/h50• at AC-4 / 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-4 / according to IEC 60947-6-21/h750	• 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 valueKW4• at AC-4 / at 400 V / rated valueKW6• at AC-4 / at 400 V / rated valueW0.7• at AC-4 / at 400 V / with rated operational curren 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/h750• 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 500 V / rated value	kW	17
• at AC-3Image: constraint of the second	• at 690 V / rated value	kW	22
• at 230 V / rated valuekW2.2• 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 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-3 / 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 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 frequencyVV• 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 //n10,000• at DC1 //n10,000Frequency of operation• at AC-1 / according to IEC 60947-6-21 //n1,000• at AC-2 / according to IEC 60947-6-21 //n750• at AC-3 / according to IEC 60947-6-21 //n750• at AC-4 / according to IEC 60947-6-21 //n250	• 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 frequencyV10,000• at AC1/h10,000• at DC1/h10,000Frequency of operationV• 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 conductor Image: science intercet	• 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		W	0.7
• at DC 1/h 10,000 Frequency of operation I Image: Comparison Image: Comparison • at AC-1 / according to IEC 60947-6-2 1/h 1,000 1,000 • at AC-2 / according to IEC 60947-6-2 1/h 750 1/h 750 • at AC-4 / according to IEC 60947-6-2 1/h 250 1/h 1/h	Off-load operating frequency		
Frequency of operation Image: mail of the second secon	• 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:		

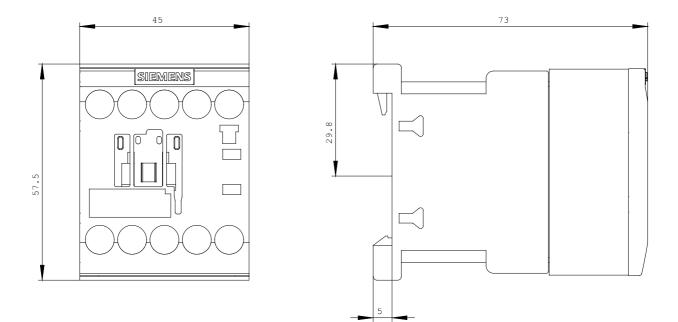
Type of voltage / of the controlled supply voltage		DC
Control supply voltage		
for DC / rated value	V	24
operating range factor control supply voltage rated value / of the magnet coil		
• for DC		0.8 1.1
Pull-in power / of the solenoid / for DC	W	4
Holding power / of the solenoid / for DC	W	4
Closing delay		
• at DC	ms	30 100
Opening delay		
• at DC	ms	7 13
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)
Number of NC contacts / for auxiliary contacts / instantaneous		1
switching		
Number of NO contacts / for auxiliary contacts / instantaneous switching	-	0
Operating current / of the auxiliary contacts		
• [nicht versorgt: PMD_ABP551_001_000]		
•	А	2
• at 690 V	А	1
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

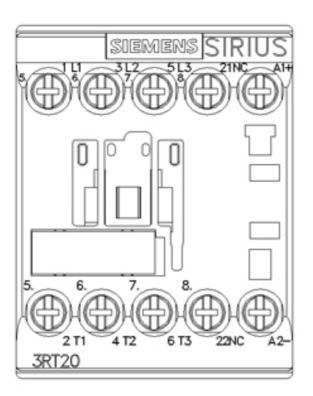
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
• for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
for short-circuit protection of the main circuit		
 with type of assignment 1 / required 		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 / for auxiliary contacts 		2x (20 16), 2x (18 14), 2x 12
Sicherheitsrelevante Kenngrößen:		
B10 value / with high demand rate		
according to SN 31920		1,000,000

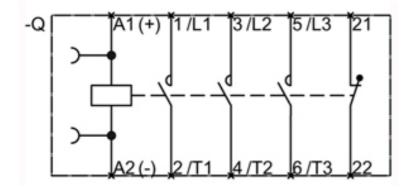
T1 value / for proof test interval or service life		
according to IEC 61508	а	20
Proportion of dangerous failures		
 with low demand rate / according to SN 31920 	%	40
 with high demand rate / according to SN 31920 	%	73
Failure rate (FIT value) / with low demand rate		
according to SN 31920	FIT	100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



http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2016-1BB42-ZW97







last change:

Feb 15, 2013