SIEMENS

Product data sheet

3RT2015-1AF02



CONTACTOR, AC-3, 3KW/400V, 1NC, AC110V, 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	18		
• at 60 °C ambient temperature / rated value	А	16		
Connectable conductor cross-section / in main circuit				
• at AC-1				
• at 40 °C / minimum permissible	m²	2.5		
• at 60 °C / minimum permissible	m²	2.5		
Operational current				
• at AC-2 / at 400 V / rated value	А	7		
• at AC-3				
• at 400 V / rated value	А	7		
• at 500 V / rated value	А	6		
• at 690 V / rated value	А	4.9		
• at AC-4 / at 400 V / rated value	А	6.5		
Operational current				
• with 1 current path / at DC-1				
• at 24 V / rated value	А	15		
• at 110 V / rated value	А	1.5		
• at 220 V / rated value	А	0.6		
• at 440 V / rated value	А	0.42		
• at 600 V / rated value	А	0.42		
• with 2 current paths in series / at DC-1				
• at 24 V / rated value	А	15		
• at 110 V / rated value	А	8.4		
• at 220 V / rated value	А	1.2		
• at 440 V / rated value	А	0.6		
• at 600 V / rated value	А	0.5		
• with 3 current paths in series / at DC-1				
• at 24 V / rated value	А	15		
• at 110 V / rated value	А	15		

• at 220 V / rated value A 15 • at 460 V / rated value A 0.9 • at 660 V / rated value A 0.9 • with 1 current path / at DC/3 / at DC/5 - - • at 110 V / rated value A 15 • 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 15 - • at 110 V / rated value A 15 - • at 24 V / rated value A 15 - • at 24 V / rated value A 15 - • at 10 V / rated value A 15 - • at 24 V / rated value A 15 - • at 400 V / rated value A 12 - • at 400 V / rated value A 0.14 - • at 800 V / rated value KW 6.3 - • at 800 V / rated value KW 13.8 - • at 800 V / rated value KW 15 - • at 800 V / rated value KW 3 - <			
• at 800 V / rated valueA0.7Operational currentV• with 1 current path / at DC-3 / at DC-5-• at 24 V / rated valueA0.1• with 2 current paths in series / at DC-3 / at DC-5-• at 24 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 24 V / rated valueA15• at 24 V / rated valueA15• at 240 V / rated valueA16• at 220 V / rated valueA16• at 220 V / rated valueA12• at 230 V / rated valueA13• at 230 V / rated valueKW6.3• at 300 V / rated valueKW11• at 300 V / rated valueKW18• at 300 V / rated valueKW18• at 300 V / rated valueKW15• at 300 V / rated valueKW15• at 300 V / rated valueKW16• at 300 V / rated v	• at 220 V / rated value	А	15
Operational currentImage: set of the set	• at 440 V / rated value	А	0.9
• with 1 current path 1 at DC-31 at DC-5 A 15 • at 24 V / rated value A 0.1 • with 2 current paths in series / at DC-3 / at DC-5 - - • at 24 V / rated value A 0.25 • with 3 current paths in series / at DC-3 / at DC-5 - - • at 24 V / rated value A 15 • at 24 V / rated value A 15 • at 24 V / rated value A 15 • at 24 V / rated value A 15 • at 20 V / rated value A 16 • at 200 V / rated value A 16 • at 400 V / rated value A 16 • at 200 V / rated value KW 11 • at 200 V / rated value KW 11 • at 200 V / rated value KW 13.8 • at 200 V / rated value KW 13.8 • at 200 V / rated value KW 13.8 • at 200 V / rated value KW 13.8 • at 200 V / rated value KW 14.2 • at 200 V / rated value <t< td=""><td>• at 600 V / rated value</td><td>А</td><td>0.7</td></t<>	• at 600 V / rated value	А	0.7
+ al 24 V / rated value A 15 + alt 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 15 - with 3 current paths in series / at DC-3/ at DC-5 - + with 3 current paths in series / at DC-3/ at DC-5 - + at 24 V / rated value A 15 - with 3 current paths in series / at DC-3/ at DC-5 - + at 24 V / rated value A 15 - at 10 V / rated value A 12 - at 220 V / rated value A 0.14 - at 230 V / rated value A 0.14 - at 230 V / rated value KW 6.3 - at 240 V / rated value KW 11 - at 300 V / rated value KW 13.4 - at 300 V / rated value KW 13.4 - at 230 V / rated value KW 14.4 - at 320 V / rated value KW 15 - at 320 V / rated value KW 15 - at 320 V / rated value KW 15 - at 320 V / rated value KW 16 <tr< td=""><td>Operational current</td><td>_</td><td></td></tr<>	Operational current	_	
• at 110 V/ rated value A 0.1 • with 2 current paths in series / at DC-3 / at DC-5 A 0.25 • at 24 V/ rated value A 0.25 • at 24 V/ rated value A 15 • at 24 V/ rated value A 12 • at 24 V/ rated value A 0.14 • at 200 V/ rated value A 0.14 • at 200 V/ rated value A 0.14 • at 200 V/ rated value KW 11 • at 200 V/ rated value KW 13 • at 400 V/ rated value KW 13 • at 400 V/ rated value KW 13 • at 200 V/ rated value KW 14 • at 200 V/ rated value KW 14 • at 200 V/ rated v	• with 1 current path / at DC-3 / at DC-5		
• with 2 current paths in series / at DC-3/ at DC-5 A 15 • at 24 V / rated value A 0.25 • with 3 current paths in series / at DC-3/ at DC-5 - • at 24 V / rated value A 15 • at 24 V / rated value A 15 • at 24 V / rated value A 15 • at 24 V / rated value A 12 • at 24 V / rated value A 12 • at 24 V / rated value A 12 • at 240 V / rated value A 12 • at 230 V / rated value A 0.14 • at 230 V / rated value KW 6.3 • at 230 V / rated value KW 13.8 • at 690 V / rated value KW 13.8 • at 690 V / rated value KW 3 • at 230 V / rated value KW 3 • at 230 V / rated value KW 3 • at 690 V / rated value KW 3 • at AC-1 X 3 • at AC-1 / at 400 V / rated value KW 3	• at 24 V / rated value	А	15
• at 24 V / rated value A 15 • with 3 current paths in series / at DC-3 / at DC-5 - • at 24 V / rated value A 15 • at 24 V / rated value A 15 • at 20 V / rated value A 12 • at 400 V / rated value A 12 • at 400 V / rated value A 14 • at 400 V / rated value A 14 • at 400 V / rated value A 14 • at 230 V / rated value A 14 • at 230 V / rated value KW 6.3 • at 230 V / rated value KW 11 • at 230 V / rated value KW 13.8 • at 600 V / rated value KW 19 • at 600 V / rated value KW 15 • at 230 V / rated value KW 3 • at 320 V / rated value KW 3 • at 320 V / rated value KW 15 • at 400 V / rated value KW 3 • at 400 V / rated value KW 3 • at 400 V / rated value KW 3 • at 630 V / rated value </td <td>• at 110 V / rated value</td> <td>А</td> <td>0.1</td>	• at 110 V / rated value	А	0.1
• with 3 current paths in series / at DC-3 / at DC-5 - • with 3 current paths in series / at DC-3 / at DC-5 - • at 24 V / rated value A 15 • at 24 V / rated value A 15 • at 20 V / rated value A 0.14 • at 800 V / rated value A 0.14 • at 800 V / rated value KW 6.3 • at 20 V / rated value KW 6.3 • at 200 V / rated value KW 11 • at 200 V / rated value KW 13.8 • at 200 V / rated value KW 13.8 • at 600 V / rated value KW 15 • at 600 V / rated value KW 15 • at 200 V / rated value KW 15 • at 600 V / rated value KW 3 • at 600 V / rated value KW 3 • at 600 V / rated value KW 3 • at 600 V / rated value KW 3 • at 600 V / rated value KW 3 • at 600 V / rated value KW 3 • at 600 V / rated value KW 3 • at 60	• with 2 current paths in series / at DC-3 / at DC-5		
• with 3 current paths in series / at DC-3 / at DC-5 I I • at 24 V / rated value A 15 • at 220 V / rated value A 12 • at 220 V / rated value A 0.14 • at 400 V / rated value A 0.14 • at 600 V / rated value A 0.14 • at 600 V / rated value KW 6.3 • at 230 V / rated value KW 6.3 • at 230 V / rated value KW 11 • at 230 V / rated value KW 13.8 • at 240 V / rated value KW 13.8 • at 240 V / rated value KW 13.8 • at 230 V / rated value KW 15 • at 230 V / rated value KW 15 • at 230 V / rated value KW 3 • at 230 V / rated value KW 3 • at 230 V / rated value KW 3 • at 230 V / rated value KW 3 • at 240 V / rated value KW 3 • at 62.7 J at 400 V / rated operational KW <	• at 24 V / rated value	А	15
• at 24 V / rated value A 15 • at 110 V / rated value A 12 • at 220 V / rated value A 0.14 • at 400 V / rated value A 0.14 • at 600 V / rated value A 0.14 • at AC-1 - - • at AC-1 - - • at 230 V / rated value KW 6.3 • at 400 V / rated value KW 11 • at 600 V / rated value KW 13.8 • at 600 V / rated value KW 19 • at 600 V / rated value KW 15 • at 230 V / rated value KW 15 • at 300 V / rated value KW 19 • at 400 V / rated value KW 14 • at 300 V / rated value KW 3 • at 400 V / rated value KW 3 • at 400 V / rated value KW 3 • at 400 V / rated value KW 3 • at 400 V / rated value KW 3 • at 600 V / rated value KW 3 • at AC-1 / according to IEC 60947-6-2 I/h	• at 110 V / rated value	А	0.25
+ at 110 V / rated valueA15• at 220 V / rated valueA1.2• at 440 V / rated valueA0.14• at 600 V / rated valueA0.14• at AC-1KW6.3• at 230 V / rated valueKW11• at 300 V / rated valueKW13.8• at 600 V / rated valueKW19• at 600 V / rated valueKW19• at 600 V / rated valueKW10• at 230 V / rated valueKW3• at 230 V / rated valueKW3• at 400 V / rated valueKW3• at 400 V / rated valueKW3• at 600 V / rated valueKW10,000• at 600 V / rated valueIn10,000• at 600 V / rated valueIn	• with 3 current paths in series / at DC-3 / at DC-5		
• at 220 // rated value A 1.2 • at 440 // rated value A 0.14 • at 600 // rated value A 0.14 Service power - - • at 230 // rated value KW 6.3 • at 200 // rated value KW 11 • at 200 // rated value KW 13.8 • at 600 // rated value KW 13.8 • at 600 // rated value KW 3 • at 230 // rated value KW 3 • at 400 // rated value KW 3 • at 400 // rated value KW 3 • at 600 // rated value KW 3 • at 600 // rated value KW 3 • at 62 / at 400 V / rated value KW 3 • at 62 / at 400 V / rated value KW 3 • at 62 / at 400 V / rated value KW 3 • at 62 / at coording to LEC 60947-6-2 1/h 1,0000 reat 62 / a	• at 24 V / rated value	А	15
• at 440 V/ rated valueA0.14• at 600 V/ rated valueA0.14Service power• at AC-1-• at 230 V/ rated valueKW6.3• at 400 V/ rated valueKW11• at 300 V/ rated valueKW13.8• at 600 V/ rated valueKW19• at 600 V/ rated valueKW3• at 600 V/ rated valueKW1.5• at 230 V/ rated valueKW3• at 400 V/ rated valueKW3• at 400 V/ rated valueKW3• at 400 V/ rated valueKW3• at 690 V/ rated valueKW3• at 690 V/ rated valueKW3• at 600 V/ rated valueKW3• at AC-4 14 400 V/ with rated operational current value / per conductorW3Off-load operating frequency • at ACM3• at AC1/h1,0001,000• at AC1,1M1,000• at AC-1 / according to IEC 60947-6-21,1M500• at AC-1 / according to IEC 60947-6-21,1M500• at AC-3 / according to IEC 60947-6-21,1M500• at AC-4 / according to IEC 60947-6-2	• at 110 V / rated value	А	15
• at 600 V / rated valueA0.14Service power	• at 220 V / rated value	А	1.2
Service power Image: service power • at AC-1 KW 6.3 • at 230 V/ rated value KW 11 • at 400 V/ rated value KW 13.8 • at 600 V/ rated value KW 19 • at 600 V/ rated value KW 19 • at 600 V/ rated value KW 10 • at 600 V/ rated value KW 15 • at 230 V/ rated value KW 15 • at 230 V/ rated value KW 3 • at 230 V/ rated value KW 3 • at 230 V/ rated value KW 3 • at 400 V/ rated value KW 3 • at 600 V/ rated value KW 3 • at 62-4 / at 400 V / rated value KW 3 • at 62-4 / at 400 V / with rated operational V S • at AC- 1/h 10,000 • at AC 1/h	• at 440 V / rated value	А	0.14
• at AC-1 KW 6.3 • at 230 V/rated value KW 11 • at 400 V/rated value KW 13.8 • at 600 V/rated value KW 19 • at 600 V/rated value KW 3 • at 230 V/rated value KW 3 • at 230 V/rated value KW 3 • at 230 V/rated value KW 3 • at 400 V/rated value KW 4 • at 400 V/rated value KW 3 • at 600 V/rated value KW 4 • at 600 V/rated value KW 10.000 • at AC 1/h 10,000 1/h • at AC 1/h 1,000 1/h • at AC-1 / according to IEC 60947-6-2 1/h 750 • at AC-3 / according to IEC 60947-6-2	• at 600 V / rated value	А	0.14
• at 230 V/rated value kW 6.3 • at 400 V/rated value kW 11 • at 500 V/rated value kW 13.8 • at 690 V/rated value kW 19 • at 600 V/rated value kW 3 • at 600 V/rated value kW 3 • at AC-2 / at 400 V/rated value kW 3 • at 230 V/rated value kW 3 • at 230 V/rated value kW 3 • at 400 V/rated value kW 4 • at 400 V/rated value kW 3 • at 400 V/rated value kW 3 • at 400 V/rated value kW 3 • at 600 V/rated value kW 3 • at 600 V/rated value kW 3 • at AC-4 / at 400 V/rated value kW 3 • at AC-4 / at 400 V/rated value kW 1 • at AC-3 / at 400 V/with rated operational current value / per conductor 1/h 1,000 • at AC i AC 1/h 10,000 1 • at AC i AC-4/according to IEC 60947-6-2 1/h 1,000 • at AC-4/accor	Service power	_	
• at 400 V / rated valuekW11• at 500 V / rated valuekW13.8• at 690 V / rated valuekW19• at AC-2 / at 400 V / rated valuekW3• at AC-3• at 230 V / rated valuekW1.5• at 230 V / rated valuekW3• at 400 V / rated valuekW3• at 400 V / rated valuekW3• at 690 V / rated valuekW3• at 690 V / rated valuekW3• at 690 V / rated valuekW3• at AC-4 / at 400 V / rated valuekW3• at AC-4 / at 400 V / rated valuekW3• at AC-4 / at 400 V / rated valuekW3• at AC-4 / at 200 V / rated valuekW3• at AC-4 / at 200 V / rated valuekW3• at AC-4 / at 200 V / rated valuekW3• at AC-4 / according to IEC 60947-611/h1,000• at AC-1 / according to IEC 60947-621/h1,000• at AC-2 / according to IEC 60947-621/h750• at AC-4 / according to IEC 60947-621/h750• at AC-4 / according to IEC 60947-621/h250	• at AC-1		
+ at 500 V / rated valueKW13.8- at 690 V / rated valueKW19- at AC-2 / at 400 V / rated valueKW3- at AC-3 at 230 V / rated valueKW1.5- at 400 V / rated valueKW3- at 400 V / rated valueKW4- at AC-4 / at 400 V / rated valueKW3- at AC-4 / at 400 V / rated valueKW3- at AC-4 / at 400 V / rated valueKW3- at AC-4 / at 400 V / rated valueKW3- at AC-4 / at 400 V / rated valueKW0.4- at AC-4 / at 400 V / rated valueM10,000- at AC1/h10,000- at AC1/h10,000- at AC11,000- 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	6.3
• at 690 V/rated valuekW19• at AC-2 / at 400 V/rated valuekW3• at AC-3kW1.5• at 230 V/rated valuekW3• at 690 V/rated valuekW3• at 690 V/rated valuekW3• at 690 V/rated valuekW3• at 690 V/rated valuekW3• at AC-4 / at 400 V/rated valuekW3• at AC-4 / at 400 V/rated valuekW3• at AC-4 / at 400 V/rated valuekW10.000• at AC-4 / at 400 V/rated value1/h10.000• at AC1/h10.000• at AC1/h1.000• at AC1/h1.000• 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/h150• 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	11
+ at AC-2 / at 400 V / rated valueRW3• at AC-3KW1.5• at 230 V / rated valueKW3• at 400 V / rated valueKW3• at 690 V / rated valueKW4• at AC-4 / at 400 V / rated valueKW3• at AC-4 / at 400 V / rated valueKW3• at AC-4 / at 400 V / rated valueW3• at AC-4 / at 400 V / rated valueW3• at AC-4 / at 400 V / rated valueW3• at AC-4 / at 400 V / rated valueW3• at AC-4 / at 400 V / rated valueW3• at AC-4 / at 400 V / rated valueW3• at AC-4 / at 400 V / rated valueW3• at AC-4 / at 400 V / rated valueW3• at AC-4 / at 400 V / rated valueW3• at AC-4 / at 400 V / rated valueW3• at AC-4 / according to IEC 60947-6-21/h10,000• at AC-1 / according to IEC 60947-6-21/h750• at AC-2 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-21/h250	• at 500 V / rated value	kW	13.8
• at AC-3II• at 230 V / rated valueKW1.5• at 400 V / rated valueKW3• at 690 V / rated valueKW4• at AC-4 / at 400 V / rated valueKW3Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW3Off-load operating frequency• 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 690 V / rated value	kW	19
• at 230 V / rated valueRW1.5• at 400 V / rated valueRW3• at 690 V / rated valueRW4• at AC-4 / at 400 V / rated valueRW3Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.4Off-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-3 / according to IEC 60947-6-21/h750• at AC-4 / according to IEC 60947-6-2 <t< td=""><td>• at AC-2 / at 400 V / rated value</td><td>kW</td><td>3</td></t<>	• at AC-2 / at 400 V / rated value	kW	3
• at 400 V / rated valuekW3• at 690 V / rated valuekW4• at AC-4 / at 400 V / rated valuekW3Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW3Off-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 valueKW4• at AC-4 / at 400 V / rated valueKW3Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.4Off-load operating frequency	• at 230 V / rated value	kW	1.5
• at AC-4 / at 400 V / rated valuekW3Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.4Off-load operating frequency • at AC • at DCI/h10,000Frequency of operation • at AC-1 / according to IEC 60947-6-21/h10,000• at AC-2 / according to IEC 60947-6-21/h1,000• 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	3
Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductorW0.4Off-load operating frequencyV• 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	4
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	3
• 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 1000 • at AC-2 / according to IEC 60947-6-2 1/h 1000 • 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	0.4
• at DC 1/h 10,000 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 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	Off-load operating frequency		
Frequency of operation Image: mail of the second seco	• 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	110
• at 60 Hz / at AC / rated value	V	110
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	9 35
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)
Number of NC contacts / for auxiliary contacts / instantaneous		1

Number of NC contacts / for auxiliary contacts / instantaneous switching		1
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	0.25
• at 230 V / rated value	hp	0.75
 for three-phase squirrel cage motors 		
• at 200/208 V / rated value	hp	1.5
• at 220/230 V / rated value	hp	2

• at 460/480 V / rated value	hp	3		
• at 575/600 V / rated value	hp	hp 5		
Operating current (FLA) / for three-phase squirrel cage motors				
• at 480 V / rated value	А	4.8		
• at 600 V / rated value	А	6.1		
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		
		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		

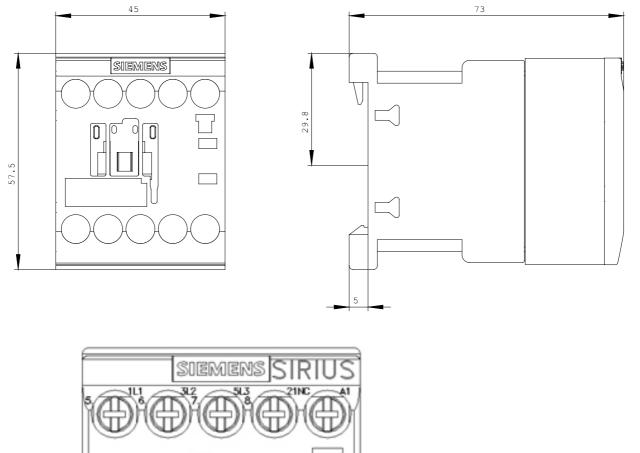
 for AWG conductor 	s / for auxiliary cont	auxiliary contacts		2x (20	2x (20 16), 2x (18 14), 2x 12		
Sicherheitsrelevante Kenngrößen:							
B10 value / with high o	demand rate						
according to SN 31	920			1,000,000			
T1 value / for proof tes	st interval or servio	e life					
 according to IEC 61 	508		а	20			
Proportion of dangero	ous failures						
 with low demand rate 	te / according to SN	31920	%	40			
• with high demand ra	ate / according to S	N 31920	%	73			
Failure rate (FIT value)) / with low deman	d rate					
according to SN 31	920		FIT	100			
Product function							
• mirror contact to IE	C 60947-4-1			Yes			
 positively driven op 	eration to IEC 6094	7-5-1		No			
Certificates/approva							
General Product App					Functional Safety / Safety of Machinery	Declaration of Conformity	
	(SA)	GOST			Type Examination	EG-Konf.	
Test Certificates							
Special Test Certificate							
Shipping Approval							
ABS	BUREAU VERITAS		GL GL		Lloyd'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							
Industry Mall (Online of http://www.siemens.com		'mall					
Cax online generator							

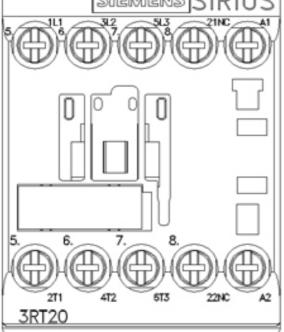
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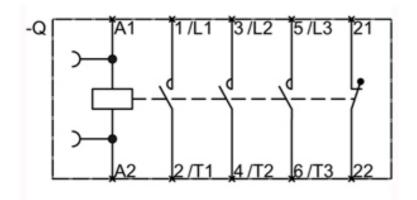
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT2015-1AF02/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2015-1AF02







last change:

Feb 15, 2013