## **SIEMENS**

Data sheet 3RT2015-2AF04



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S00, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W
without load current share typical	4.2 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

3
690 V
690 V
18 A
18 A
40.4
16 A
7 A
6 A
4.9 A
7.071
7 A
6 A
4.9 A
6.5 A
15.8 A
5.8 A
4 A
4 A
3.8 A
3.6 A
2.7 A
2.7 A
2.5 A
2.4 A
2.5 mm <sup>2</sup>
0.0.4
2.6 A
1.8 A
1.8 A
1.8 A 15 A
1.8 A 15 A 15 A
1.8 A 15 A 15 A 1.5 A
1.8 A 15 A 15 A 1.5 A 0.6 A
1.8 A 15 A 1.5 A 0.6 A 0.42 A
1.8 A 15 A 1.5 A 0.6 A 0.42 A
1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A
1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A
1.8 A  15 A  1.5 A  1.5 A  0.6 A  0.42 A  0.42 A
1.8 A  15 A  1.5 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  15 A
1.8 A  15 A  1.5 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  15 A  16 A  17 A  18 A
1.8 A  15 A  1.5 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  15 A
1.8 A  15 A  1.5 A  1.5 A  0.6 A  0.42 A  1.5 A
1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  1.5 A  1.5 A  1.5 A
1.8 A  15 A  1.5 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  1.2 A  0.6 A  0.5 A
1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  1.2 A  0.6 A  0.5 A
1.8 A  15 A  1.5 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  1.5 A  1.5 A  1.5 A  1.5 A  1.5 A
1.8 A  15 A  15 A  1.5 A  0.6 A  0.42 A  0.42 A  15 A  15 A  15 A  1.2 A  0.6 A  0.5 A

at 24 V index value at 10 V relet value at 10 V relet value at 24 V index value at 25 V index value at 26 V index value at 26 V index value at 26 V index value at 27 V index value at 28 V index value at 28 V index value at 29 V index value at 29 V index value at 29 V index value			
at 110 V rated value  with 2 current paths in series at DC-3 at DC-5  at 24 V rated value  at 100 V rated value  at 220 V rated val	— at 24 V rated value	15 A	
- with 2 current paths in series at DC-3 at DC-5	— at 60 V rated value	0.35 A	
	— at 110 V rated value	0.1 A	
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>		
	— at 24 V rated value	15 A	
with 3 current paths in series at DC-3 at DC-5	— at 60 V rated value	3.5 A	
	— at 110 V rated value	0.25 A	
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>		
	— at 24 V rated value	15 A	
	— at 60 V rated value	15 A	
	— at 110 V rated value	15 A	
Operating power			
• at AC-2 at 400 V rated value		0.14 A	
- at 230 V rated value		2 IAM	
		3 KW	
- at 500 V rated value			
at AC-3e  at 230 V rated value  at 230 V rated value  at 500 V rated value  4 kW  operating power for approx. 200000 operating cycles at AC-4  4 at 400 V rated value  at 500 V rated value  1.15 kW  at 500 V rated value  1.15 kW  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  2.2 kVA  2.9 kVA  4.2 We minimum cross-section acc. to AC-1 rated value  86 A; Use minimum cross-section acc. to AC-1 rated value  86 A; Use minimum cross-section acc. to AC-1 rated value  47 A; Use minimum cross-section acc. to AC-1 rated value  48 A; Use minimum cross-section acc. to AC-1 rated value  49 A; Use minimum cross-section acc. to AC-1 rated value  40 AC-2 maximum  41 AC-2 maximum  42 AC-3 maximum  43 AC-3 maximum  44 AC-3 maximum  45 AC-4 maximum  47 AC-4 maximum  47 AC-4 maximum  47 AC-4 maximum  4			
at AC-3e  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  at 690 V rated value  4 kW  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  at 690 V rated value  1.15 kW  at 690 V rated value  at 690 V rated value  1.15 kW  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 600 V for current peak value n=30 rated value  up to 600 V for current peak value n=30 rated value  up to 600 V for current peak value n=30 rated value  2.9 kVA  short-lime withstand current in cold operating state up to 40 °C  ilimited to 1 s switching at zero current maximum  ilimited to 1 s switching at zero current maximum  ilimited to 30 s switching at zero current maximum  ilimited to 30 s switching at zero current maximum  ilimited to 30 s switching at zero current maximum  ilimited to 30 s switching at zero current maximum  ilimited to 30 s switching at zero current maximum  ilimited to 30 s switching at zero current maximum  ilimited to 30 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s s			
		4 kW	
	• at AC-3e		
at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 400 V rated value at 400 V rated value at 690 V rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for cur	— at 230 V rated value	1.5 kW	
operating power for approx. 200000 operating cycles at AC- 4  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • all twickstand current in cold operating state up to  40 °C • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching	— at 400 V rated value	3 kW	
operating power for approx. 200000 operating cycles at AC-4  * at 400 V rated value * at 690 V rated value * up to 230 V for current peak value n=20 rated value * up to 230 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 230 V for current peak value n=30 rated value * up to 230 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * 2.2 kVA * 2.9 kVA  * 2.9 kVA  * 3.0 kVA	— at 500 V rated value	3 kW	
at 400 V rated value at 690 V rated value 1.15 kW  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 2.2 kVA 2.2 kVA 2.2 kVA 3.3 kVA 4.3 kVA  4.3 kVA  4.3 kVA  5.2 kVA 5.2 kVA 5.2 kVA 5.2 kVA 5.2 kVA 5.2 kVA 5.2 kVA 5.3 kVA 6.3 kVA 6.4 kVA 6.5 kVA 6.5 kVA 6.5 kVA 6.5 kVA 6.6 kVA 6.6 kVA 6.7 kVA 6.8 kVA 6.9 kVA 6.8 kVA 6.9	— at 690 V rated value	4 kW	
at 400 V rated value at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 230 V for current peak value n=20 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 690 V for current peak value n=30 rated value  2 kVA  short-time withstand current in cold operating state up to 40 °C  ilimited to 10 s switching at zero current maximum  ilimited to 5 s switching at zero current maximum  ilimited to 30 s switching at zero current maximum  ilimited to 6			
a ta 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=30 rated value  up to 400 V for current peak value n=30 rated value  up to 500 V for current p			
operating apparent power at AC-8a	<ul> <li>at 400 V rated value</li> </ul>	1.15 kW	
• up to 230 V for current peak value n=20 rated value     • up to 400 V for current peak value n=20 rated value     • up to 500 V for current peak value n=20 rated value     • up to 690 V for current peak value n=20 rated value     • up to 230 V for current peak value n=30 rated value     • up to 230 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • limited to 1 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 30 s switching at zero current maximum     • limited to 30 s switching at zero current maximum     • limited to 30 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • at AC     • at AC-1 maximum     • at AC-3 maximum     • at AC-3 maximum     • at AC-3 maximum     • at AC-3 maximum     • at AC-4 ma	at 690 V rated value	1.15 kW	
• up to 400 V for current peak value n=20 rated value     • up to 500 V for current peak value n=20 rated value     • up to 690 V for current peak value n=20 rated value     • up to 230 V for current peak value n=30 rated value     • up to 400 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • limited to 1 s switching at zero current maximum     • limited to 5 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • at AC     • at AC     10 000 1/h     • at AC-2 maximum     • at AC-3 maximum     • at AC-4 maximum	operating apparent power at AC-6a		
• up to 500 V for current peak value n=20 rated value     • up to 690 V for current peak value n=20 rated value     • up to 230 V for current peak value n=30 rated value     • up to 230 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • limited to 1 s switching at zero current maximum     • limited to 1 s switching at zero current maximum     • limited to 1 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current ma	<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	1.5 kVA	
• up to 690 V for current peak value n=20 rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  on-load switching frequency • at AC  10 000 1/h  at AC-3 maximum • at AC-4 maximum  control circuit/ Control  type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value  • at 60 Hz rated value  1 kVA  2.2 kVA  2.9 kVA   120 A; Use minimum cross-section acc. to AC-1 rated value  86 A; Use minimum cross-section acc. to AC-1 rated value  95 A; Use minimum cross-section acc. to AC-1 rated value  10 000 1/h  11 0V  12 0V  13 0V  14 0V  15 0V  16 0V  17 0V  18 0V	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	2.7 kVA	
operating apparent power at AC-6a  • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  1000 1/h	<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	3.3 kVA	
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 2.2 kVA  short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at limited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum  control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC  at 60 Hz rated value  1 kVA  1.8 kVA 2.2 kVA  2.2 kVA  2.9 kVA  120 A; Use minimum cross-section acc. to AC-1 rated value  66 A; Use minimum cross-section acc. to AC-1 rated value  67 A; Use minimum cross-section acc. to AC-1 rated value  67 A; Use minimum cross-section acc. to AC-1 rated value  10 000 1/h 250 1/h 260 1/h 270	<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	4.3 kVA	
up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum total AC-4	operating apparent power at AC-6a		
up to 500 V for current peak value n=30 rated value  up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum  limited to 5 s switching at zero current maximum  limited to 10 s switching at zero current maximum  limited to 30 s switching at zero current maximum  limited to 30 s switching at zero current maximum  limited to 60 s switching at zero current maximum  at Ac-2 maximum  at AC-2 maximum  at AC-3 maximum  at AC-3 maximum  at AC-4 maximum  at AC-5 Hz rated value  at 60 Hz rated value  110 V  operating range factor control supply voltage rated value  110 V  operating range factor control supply voltage rated value  12.2 kVA  2.9 kVA  10 00 A, Use minimum cross-section acc. to AC-1 rated value  67 A; Use minimum cross-section acc. to AC-1 rated value  67 A; Use minimum cross-section acc. to AC-1 rated value  67 A; Use minimum cross-section acc. to AC-1 rated value  67 A; Use minimum cross-section acc. to AC-1 rated value  67 A; Use minimum cross-section acc. to AC-1 rated value  67 A; Use minimum cross-section a	<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1 kVA	
up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  ilmited to 1 s switching at zero current maximum  limited to 5 s switching at zero current maximum  limited to 10 s switching at zero current maximum  limited to 10 s switching at zero current maximum  limited to 30 s switching at zero current maximum  limited to 60 s switching at zero current maximum  limited to 60 s switching at zero current maximum  standard to 60 s switching at zero current maximum  no-load switching frequency  at AC  operating frequency  at AC-1 maximum  1 000 1/h  at AC-2 maximum  750 1/h  at AC-3 maximum  750 1/h  at AC-3 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-3 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-3 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-3 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-3 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-3 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-3 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-3 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-3 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-3 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-4 maximum  750 1/h  at AC-5 maximum  750 1/h  at AC-7 maximum  750 1/h  at AC-8 maximum  750 1/h  at AC-9 maximum  750 1/h  at AC-9 maximum  750 1/h  at AC-1 mated value  110 V  at 50 Hz rated value  110 V  operating range factor control supply voltage rated value of	<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	1.8 kVA	
short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • at AC  • at AC  • at AC  • at 50 Hz rated value  • at 60 Hz rated value  • at 60 Hz rated value  • operating range factor control supply voltage rated value of	<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	2.2 kVA	
Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ino-load switching frequency Ino-load switching frequency Ilimited to 60 s switching at zero current maximum Ino-load switching frequency Ino-load switching frequency Ilimited to 60 s switching at zero current maximum Ino-load switching frequency Ino-load switching frequency Ino-load switching at zero current maximum Ino-load switching at	• up to 690 V for current peak value n=30 rated value		
Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimite			
<ul> <li>Imitted to 5 s switching at zero current maximum</li> <li>Imitted to 10 s switching at zero current maximum</li> <li>Imitted to 30 s switching at zero current maximum</li> <li>Imitted to 30 s switching at zero current maximum</li> <li>Imitted to 60 s switching at zero current maximum</li> <li>Imitted to 60 s switching at zero current maximum</li> <li>Imitted to 60 s switching frequency</li> <li>at AC</li> <li>at AC</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-5 I/h</li> <li>at AC-4 maximum</li> <li>at AC-5 I/h</li> <li>at AC-4 maximum</li> <li>at AC-5 I/h</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-5 I/h</li> <li>at AC-4 maximum</li> <li>at AC-5 maximum</li> <li>at AC-5 maximum</li> <li>at AC-5 maximum</li> <li>at AC-6 maximum</li> <li>at AC-7 maximum</li> <li>at AC-8 maximum</li> <li>at AC-9 maximum</li> <li></li></ul>	40 °C		
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>at AC</li> <li>10 000 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-50 1/h</li> <li>at AC-50 I/h</li> <li>at AC-4 maximum</li> <li>at AC-50 I/h</li> <li>at AC-50 I/h</li> <li>at AC-60 I/h</li> <li>at AC-70 I/h</li> <li>at AC-8 maximum</li> <li>at AC-9 I/h</li> <li>at AC-9 I/h</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-50 I/h</li> <li>control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>at 60 Hz rated value</li> <li>at 60 Hz rated value of</li> </ul>	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	120 A; Use minimum cross-section acc. to AC-1 rated value	
<ul> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>10 000 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-5 to 1/h</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-5 to 1/h</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at BO Hz rated value</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>at 60 Hz rated value of</li> </ul>	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 60 s switching at zero current maximum     no-load switching frequency     • at AC	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	67 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency  • at AC  operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  operating range factor control supply voltage rated value of	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	52 A; Use minimum cross-section acc. to AC-1 rated value	
<ul> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>be at AC-4 maximum</li> <li>control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>at 60 Hz rated value</li> <li>at 60 Hz rated value</li> <li>at 110 V</li> <li>operating range factor control supply voltage rated value of</li> </ul>	• limited to 60 s switching at zero current maximum	43 A; Use minimum cross-section acc. to AC-1 rated value	
operating frequency  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-3e maximum  • at AC-4 maximum  • at AC-4 maximum  • at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  type of voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  operating range factor control supply voltage rated value of	no-load switching frequency		
<ul> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul> Control circuit/ Control type of voltage of the control supply voltage <ul> <li>AC</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of</li> </ul>	• at AC	10 000 1/h	
<ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul> Control circuit/ Control type of voltage of the control supply voltage <ul> <li>AC</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of</li> </ul>	operating frequency		
<ul> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul> Control circuit/ Control type of voltage of the control supply voltage <ul> <li>AC</li> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of</li> </ul>	• at AC-1 maximum	1 000 1/h	
<ul> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of</li> </ul>	• at AC-2 maximum	750 1/h	
<ul> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>250 1/h</li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of</li> </ul>	• at AC-3 maximum	750 1/h	
● at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  AC  control supply voltage at AC  ● at 50 Hz rated value  ● at 60 Hz rated value  operating range factor control supply voltage rated value of			
type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  operating range factor control supply voltage rated value of			
type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  operating range factor control supply voltage rated value of			
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  110 V  operating range factor control supply voltage rated value of		AC	
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> <li>operating range factor control supply voltage rated value of</li> </ul>		7.0	
• at 60 Hz rated value  operating range factor control supply voltage rated value of		110 V	
operating range factor control supply voltage rated value of			
		110 V	

● at 50 Hz	0.8 1.1	
• at 60 Hz	0.85 1.1	
apparent pick-up power of magnet coil at AC		
• at 50 Hz	27 VA	
• at 60 Hz	24.3 VA	
inductive power factor with closing power of the coil		
• at 50 Hz	0.8	
• at 60 Hz	0.75	
apparent holding power of magnet coil at AC	40.74	
• at 50 Hz	4.2 VA	
at 60 Hz  inductive power factor with the holding power of the coil	3.3 VA	
at 50 Hz	0.25	
• at 60 Hz	0.25	
closing delay		
• at AC	9 35 ms	
opening delay		
• at AC	4 15 ms	
arcing time	10 15 ms	
control version of the switch operating mechanism	Standard A1 - A2	
Auxiliary circuit		
number of NC contacts for auxiliary contacts instantaneous	2	
contact		
number of NO contacts for auxiliary contacts instantaneous contact	2	
operational current at AC-12 maximum	10 A	
operational current at AC-15		
• at 230 V rated value	6 A	
• at 400 V rated value	3 A	
• at 500 V rated value	2 A	
at 690 V rated value	1 A	
operational current at DC-12		
• at 24 V rated value	10 A	
• at 48 V rated value	6 A	
• at 60 V rated value	6 A	
• at 110 V rated value	3 A	
• at 125 V rated value	2 A	
• at 220 V rated value	1 A	
at 600 V rated value	0.15 A	
operational current at DC-13		
• at 24 V rated value	6 A	
• at 48 V rated value	2 A	
• at 60 V rated value	2 A	
• at 110 V rated value	1 A	
• at 125 V rated value	0.9 A	
at 220 V rated value	0.3 A	
at 600 V rated value	0.1 A	
contact reliability of auxiliary contacts UL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)	
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value	4.8 A	
at 600 V rated value	6.1 A	
yielded mechanical performance [hp]	0.171	
• for single-phase AC motor		
— at 110/120 V rated value	0.25 hp	
— at 230 V rated value	0.75 hp	
• for 3-phase AC motor		
— at 200/208 V rated value	1.5 hp	
— at 220/230 V rated value	2 hp	
— at 460/480 V rated value	3 hp	
— at 575/600 V rated value	5 hp	
at 5. 5. 555 Y Tutou Yuluo	p	

contact rating of auxiliary contacts according to UL	A600 / Q600	
Short-circuit protection		
design of the fuse link		
for short-circuit protection of the main circuit		
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)	
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)	
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)	
nstallation/ mounting/ dimensions		
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and	
	backward by +/- 22.5° on vertical mounting surface	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
• side-by-side mounting	Yes	
height	70 mm	
width	45 mm	
depth	121 mm	
required spacing		
with side-by-side mounting		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	0 mm	
<ul> <li>for grounded parts</li> </ul>		
— forwards	10 mm	
— upwards	10 mm	
— at the side	6 mm	
— downwards	10 mm	
for live parts		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	6 mm	
Connections/ Terminals		
type of electrical connection		
for main current circuit	spring-loaded terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals	
at contactor for auxiliary contacts	Spring-type terminals	
of magnet coil	Spring-type terminals	
type of connectable conductor cross-sections for main contacts		
• solid	2x (0.5 4 mm²)	
solid or stranded	2x (0,5 4 mm²)	
finely stranded with core end processing	2x (0.5 2.5 mm²)	
finely stranded with core end processing     finely stranded without core end processing	2x (0.5 2.5 mm²)	
connectable conductor cross-section for main contacts		
solid	0.5 4 mm²	
	0.5 4 mm²	
stranded     finely stranded with core and processing		
finely stranded with core end processing     finely stranded without core and processing	0.5 2.5 mm <sup>2</sup>	
finely stranded without core end processing	0.5 2.5 mm²	
connectable conductor cross-section for auxiliary contacts	0.5 4	
• solid or stranded	0.5 4 mm <sup>2</sup>	
finely stranded with core end processing	0.5 2.5 mm²	
finely stranded without core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
for auxiliary contacts		
— solid or stranded	2x (0,5 4 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)	
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)	
a for ANAC cobles for auxiliary contacts	2x (20 12)	
for AWG cables for auxiliary contacts		
AWG number as coded connectable conductor cross section		
AWG number as coded connectable conductor cross	20 12	

Safety related data		
product function		
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes	
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No	
B10 value with high demand rate according to SN 31920	1 000 000	
proportion of dangerous failures		
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
T1 value for proof test interval or service life according to IEC 61508	20 a	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
suitability for use		
<ul> <li>safety-related switching OFF</li> </ul>	Yes	

Certificates/ approvals

## **General Product Approval**



Confirmation





<u>KC</u>



Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping













Marine / Shipping other Railway Environment



Confirmation



Confirmation

Vibration and Shock

Environmental Confirmations

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2AF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2AF04

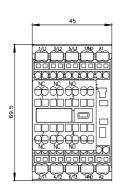
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

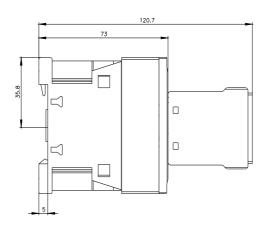
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2AF04

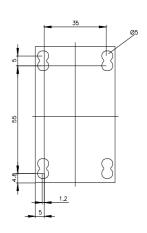
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

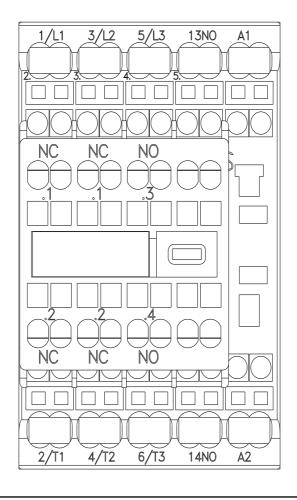
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-2AF04&lang=en

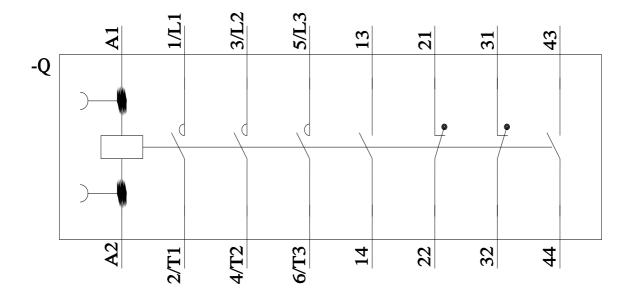
Characteristic: Tripping characteristics, I²t, Let-through current











last modified: 2/10/2023 🖸