3RT2017-1AP04-3MA0

## **Data sheet**



power contactor, AC-3e/AC-3, 12 A,  $5.5\,kW$  /  $400\,V$ , 3-pole,  $230\,V$  AC,  $50/60\,Hz$ , auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S00, captive 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>	1.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.5 W
<ul> <li>without load current share typical</li> </ul>	5.7 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	
<ul> <li>of main circuit rated value</li> </ul>	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	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 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
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	2077
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	7.2 A
— up to 400 V for current peak value n=20 rated value	7.2 A
— up to 500 V for current peak value n=20 rated value	7.2 A
— up to 690 V for current peak value n=20 rated value	6.7 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	4.8 A
— up to 400 V for current peak value n=30 rated value	4.8 A
— up to 500 V for current peak value n=30 rated value	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 A
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minimum cross-section in main circuit at maximum AC-1 rated	4 mm²
value	4 mm²
	4 mm²
value operational current for approx. 200000 operating cycles at	4 mm <sup>2</sup>
value operational current for approx. 200000 operating cycles at AC-4	
value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value	4.1 A
value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value	4.1 A
value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current	4.1 A
value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1	4.1 A 3.3 A
value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value	4.1 A 3.3 A 20 A
value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value	4.1 A 3.3 A 20 A 20 A
value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A
value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A
value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A
value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A
value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A
value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A
operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A
value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value	4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A
operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 20 A 21 A 20 A
operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  • at 10 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 20 V rated value  — at 440 V rated value  — at 600 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value	4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 21 A 20
operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 24 V rated value  — at 24 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 440 V rated value  — at 440 V rated value  — at 440 V rated value  — at 4600 V rated value  — at 600 V rated value	4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 2
operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 600 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 440 V rated value  — at 60 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 24 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value	4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 2
value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  • at 110 V rated value  • at 20 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 10 V rated value  — at 60 V rated value  — at 100 V rated value  — at 220 V rated value  — at 220 V rated value  — at 240 V rated value  — at 240 V rated value  — at 600 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value	4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 2
operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 440 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value	4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A
operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 600 V rated value  — at 24 V rated value  — at 24 V rated value  — at 20 V rated value	4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 2
operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 440 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value	4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A

- at 110 V rated value	— at 24 V rated value	20 A
** with 2 current paths in series at DC-3 at DC-5  - at 24 V rated value - at 10 V rated value - at 10 V rated value - at 25 V rated value - at 26 V rated value - at 20 V rated value - at 20 V rated value - 20 A - at 24 V rated value - 20 A - at 110 V rated value - 20 A - at 110 V rated value - 20 A - at 110 V rated value - 20 A - at 110 V rated value - 20 A - at 110 V rated value - 20 A - at 440 V rated value - 20 A - at 440 V rated value - 20 A - at 440 V rated value - 20 A - at 450 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - at 20 V rated value - 20 A - 3 AW - 4 A CO V rated value - 20 A -	— at 60 V rated value	0.5 A
		0.15 A
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	20 A
- with 3 current paths in series at DC-3 at DC-5	— at 60 V rated value	5 A
	— at 110 V rated value	0.35 A
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	20 A
	— at 60 V rated value	20 A
	— at 110 V rated value	20 A
operating power  at AC3  — at 230 V rated value — at 900 V rated value — at 230 V rated value — at 230 V rated value — at 900 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=50 rated value — up to 500 V for current peak value n=50 rat	— at 220 V rated value	1.5 A
operating power  at AC-3  at 230 V rated value  at 400 V rated value  at 800 V rated value  5.5 kW  5.5 kW  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  2. kW  at 600 V rated value  2. kW  at 600 V rated value  2.5 kW  operating apparent power at AC-8a  up to 800 V for current peak value n=20 rated value  up to 600 V for current peak value n=20 rated value  up to 600 V for current peak value n=20 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  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  up to 600 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  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  200 A; Use minimum cross-section acc. to AC-1 rated value  123 A; Use minimum cross-section acc. to AC-1 rated value  124 A; Use minimum cross-section acc. to AC-1 rated value  125 A; Use minimum cross-section acc. to AC-1 rated value  126 A; Use minimum cross-section acc. to AC-1 rated value  127 A; Use minimum cross-section acc. to AC-1 rated value  128 A; Use minimum cross-section acc. to AC-1 rated value  129 A; Use minimum cross-section acc. to AC-1 rated value  129 A; Use minimum cross-section acc. to AC-1 rated value  129 A; Use minimum cross-section acc. to AC-1 rated value  129 A; Use minimum cross-section acc. to AC	— at 440 V rated value	0.2 A
at AC-3  at 230 V rated value  at 400 V rated value  at 55 kW  at AC-3e  at 230 V rated value  5.5 kW  5.5 kW  at AC-3e  at 230 V rated value  5.5 kW  at AC-3e  at 230 V rated value  5.5 kW  5.5 kW  5.5 kW  at AC-3e  at 200 V rated value  5.5 kW  5.5 kW  5.5 kW  5.5 kW  6.5 kW	— at 600 V rated value	0.2 A
- at 230 V rated value - at 400 V rated value - 5.5 kW - at 500 V rated value - 5.5 kW - at 690 V rated value - 5.5 kW - at 600 V rated value - 5.5 kW - at 600 V rated value - 5.5 kW - at 600 V rated value - 3.0 kW - at 600 V rated value - 3.0 kW - at 600 V rated value - 5.5 kW - at 900 V rated value - 5.5 kW - at 900 V rated value - 5.5 kW - at 900 V rated value - 5.5 kW - at 900 V rated value - 5.5 kW - at 900 V rated value - 2.0 kW - at 600 V rated value - 2.5 kW - at 600 V rated value - 2.5 kW - 2.	operating power	
	• at AC-3	
- at 500 V rated value	— at 230 V rated value	3 kW
- at 500 V rated value		
at AC-3e at AC-3e at 230 V rated value at 400 V rated value at 500 V rated value 5.5 kW at 5.5 kW at 5.5 kW  at 500 V rated value 5.5 kW  at 400 V rated value 2 kW  at 400 V rated value 2 kW  at 600 V rated value 2 kW  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value 2 kW  operating apparent power at AC-8a  up to 230 V for current peak value n=20 rated value 2 kVA  up to 530 V for current peak value n=20 rated value 4 ky kVA  operating apparent power at AC-8a  up to 530 V for current peak value n=20 rated value 8 kVA  operating apparent power at AC-8a  up to 530 V for current peak value n=30 rated value 0 up to 530 V for current peak value n=30 rated value 0 up to 530 V for current peak value n=30 rated value 0 up to 500 V for current peak value n=30 rated value 0 up to 500 V for current peak value n=30 rated value 0 up to 500 V for current peak value n=30 rated value 0 up to 500 V for current peak value n=30 rated value 0 up to 500 V for current peak value n=30 rated value 0 up to 500 V for current peak value n=30 rated value 1 ky kVA  1 ky kVA 1 ky k		
- at 230 V rated value		
- at 230 V rated value		
- at 400 V rated value - at 500 V rated value - at 690 V rated value  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 500 V for current peak value n=20 rated value - up to 230 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		3 kW
- at 500 V rated value		
operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value 2 kW at 400 V rated value 2,5 kW  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value 4,9 kVA up to 500 V for current peak value n=20 rated value 6,2 kVA  up to 500 V for current peak value n=30 rated value 8 kVA  operating apparent power at AC-6a  up to 690 V for current peak value n=30 rated value 6,2 kVA  up to 500 V for current peak value n=30 rated value 9 kVA  operating apparent power at AC-6a  up to 230 V for current peak value n=30 rated value 8 kVA  operating apparent power at AC-6a  up to 500 V for current peak value n=30 rated value 9 kVA  operating apparent power at AC-6a  up to 500 V for current peak value n=30 rated value 9 kVA  operating apparent power at AC-6a  up to 500 V for current peak value n=30 rated value 4,1 kVA  up to 500 V for current peak value n=30 rated value 5,7 kVA  short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum 6 limited to 30 s switching at zero current maximum 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC-1 rated value 96 k. Use minimum cross-section acc. to AC		
operating power for approx. 200000 operating cycles at AC-4  at 4400 V rated value at 690 V rated value 2 kW 2 5 kW operating apparent power at AC-6a 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 500 V for current peak value n=20 rated value up to 690 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 690 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		
at 400 V rated value at 690 V rated value 2 kW 2 tw  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 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 sup 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 3.3 kVA  short-time withstand current in cold operating state up to 40 °C  limited to 15 s witching at zero current maximum limited to 50 s witching at zero current maximum limited to 50 s witching at zero current maximum limited to 60 s witching at zero current maximum limited to 60 s witching at zero current maximum limited to 60 s witching at zero current maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-5 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-8 maximum at AC-9 maximum at AC-9 maxi		C.O RVV
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 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 • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 600 V for current maximum • limited to 10 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 • 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		
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 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 200 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 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  • 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  • 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  • up to 600 V for current peak value n=30 rated value  • up to 600 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 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 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  • limi	<ul> <li>at 400 V rated value</li> </ul>	2 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 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 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     • limited to 1 s switching at zero current maximum     • limited to 5 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     • l	<ul> <li>at 690 V rated value</li> </ul>	2.5 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 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     • limited to 1 s switching at zero current maximum     • limited to 5 s switching at zero current maximum     • limited to 5 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     • 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     •	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=30 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 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  in the down of the value n=30 rated value  short-time withstand current in cold operating state up to  40 °C  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 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  ilim	<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	2.8 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     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • at AC-3 maximum     • 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-3 maximum     • at AC-4 maximum     • at AC-4 maximum     • at AC-3 maximum     • at AC-4 maximum	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	4.9 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 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • but to 690 V for current peak value n=30 rated value • but to 690 V for current peak value n=30 rated value • but to 690 V for current peak value n=30 rated value • but to 690 V for current peak value n=30 rated value • but to 1s switching at zero current maximum • limited to 1s switching at zero current maximum • limited to 5 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 no-load switching frequency • at AC  10 000 1/h  operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum  750 1/h • at AC-4 maximum  250 1/h  Control circuit/ Control  type of voltage of the control supply voltage AC  control supply voltage at AC • at 50 Hz rated value  230 V  operating range factor control supply voltage rated value of magnet coil at AC	<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	6.2 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 tup to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  ilimited 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 at Ac-2 maximum at Ac-2 maximum at Ac-3 maximum at Ac-3 maximum at Ac-3 maximum at Ac-4 maximum at Ac-6 voltage of the control supply voltage at 60 Hz rated value at 60 Hz rated value  230 V  operating range factor control supply voltage rated value of magnet coil at Ac  operating range factor control supply voltage rated value of magnet coil at Ac  operating range factor control supply voltage rated value of magnet coil at Ac	<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	8 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 5.7 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 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 slimited to 60 s switching at zero current maximum ol-load switching frequency at AC 10 000 1/h  operating frequency at AC-1 maximum 1000 1/h at AC-2 maximum 750 1/h at AC-3 maximum 750 1/h at AC-3 maximum 250 1/h Control circuit/ Control  type of voltage of the control supply voltage at 60 Hz rated value  operating range factor control supply voltage rated value of magnet coll at AC  operating range factor control supply voltage rated value of magnet coll at AC  operating range factor control supply voltage rated value of magnet coll at AC  4.1 kVA 4.1 kVA 4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kVA 5.7 kVA  4.1 kva 6.1 kVA 6.1 rated value 6.1 k) Se minimum cross-section acc. to AC-1 rated value 6.1 k) Se minimum cross-section acc. to AC-1 rated value 6.1 k) Se minimum cross-section acc. to AC-1 rated value 6.1 k) Se minimum cross-section acc. to AC-1 rated value 6.1 k) Se minimum cross-section acc. to AC-1 rated value 6.1 k) Se minimum cross-section acc. to AC-1 rated value 6.1 k) Se minimum cross-section acc. to AC-1 rated value 6.1 k) Se minimum cross-section acc. to AC-1 rated value 6.1 k) Se minimum cross-section acc. to AC-1 rated value 6.1 k) Se minimum cross-section ac	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  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 a	<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1.9 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  ilmitted to 1 s switching at zero current maximum  limited to 5 s switching at zero current maximum  ilmited 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  at AC-1 rated value  limited to 60 s switching at zero current maximum  no-load switching frequency  at AC  perating 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  250 1/h  Control circuit/ Control  type of voltage of the control supply voltage  at 60 Hz rated value  230 V  operating range factor control supply voltage rated value of magnet coil at AC  maximum range factor control supply voltage rated value of magnet coil at AC  at AC-1 current maximum  200 A; Use minimum cross-section acc. to AC-1 rated value  200 A; Use minimum cross-section acc. to AC-1 rated value  10 000 1/h  11 000 1/h  12 000 1/h  13 000 1/h  14 000 1/h  15 000 1/h  16 000 1/h  17 000 1/h  18 000 1/h  19 000 1/h  10 000	<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	3.3 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  ilmitted 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  at AC-1 rated value  limited to 60 s switching at zero current maximum  no-load switching frequency  at AC  10 000 1/h  operating frequency  at AC-2 maximum  1000 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  250 1/h  Control circuit/ Control  type of voltage of the control supply voltage  at 60 Hz rated value  230 V  operating range factor control supply voltage rated value of magnet coil at AC  operating range factor control supply voltage rated value of magnet coil at AC  at AC-3 maximum  operating range factor control supply voltage rated value of magnet coil at AC	<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	4.1 kVA
Ilimited to 1 s switching at zero current maximum Ilimited to 1 s switching at zero current maximum Ilimited to 1 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 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 at zero current maximum Ino-load switch	<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	5.7 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 Ilimite	short-time withstand current in cold operating state up to	
Ilimited to 5 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 61 A; Use minimum cross-section acc. to AC-1 rated value Ilimited to 61 A; Use minimum cross-section acc. to AC-1 rated value Ilimited to 61 A; Use		
Imitted to 10 s switching at zero current maximum Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching frequency Imited to 60 s switching frequency Imited to 60 s switching frequency Imited to 60 s switching at zero current maximum Imited to 60 s switching at	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	200 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ino-load switching frequency Ino-load frequency Ino-load switching frequency Ino-load frequency	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	123 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 60 s switching at zero current maximum     Ro-load switching frequency	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	96 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 e maximum  • at AC-4 maximum  • at AC-4 maximum  control circuit/ Control  type of voltage of the control supply voltage  • at 50 Hz rated value  • at 60 Hz rated value  • at 60 Hz rated value  operating range factor control supply voltage rated value of magnet coil at AC	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	74 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-4 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>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 magnet coil at AC</li> </ul>	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	61 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-3 maximum  • at AC-4 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 magnet coil at AC	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 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>at 50 Hz rated value</li> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value of magnet coil at AC</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-4e 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> </ul> control supply voltage at AC <ul> <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> </ul> operating range factor control supply voltage rated value of magnet coil at AC The control supply voltage rated value of magnet coil at AC The control supply voltage rated value of magnet coil at AC The control supply voltage rated value of magnet coil at AC The control supply voltage rated value of magnet coil at AC	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> </ul> control supply voltage at AC <ul> <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> </ul> operating range factor control supply voltage rated value of magnet coil at AC	• 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> </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 magnet coil at AC</li> </ul>	• at AC-2 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 magnet coil at AC  250 1/h  AC  230 V	• at AC-3 maximum	750 1/h
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 magnet coil at AC	• at AC-3e maximum	750 1/h
type of voltage of the control supply voltage  control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  230 V  operating range factor control supply voltage rated value of magnet coil at AC	• at AC-4 maximum	250 1/h
control supply voltage at AC  • at 50 Hz rated value  • at 60 Hz rated value  230 V  operating range factor control supply voltage rated value of magnet coil at AC	Control circuit/ Control	
at 50 Hz rated value     at 60 Hz rated value 230 V  operating range factor control supply voltage rated value of magnet coil at AC  230 V	type of voltage of the control supply voltage	AC
at 50 Hz rated value     at 60 Hz rated value 230 V  operating range factor control supply voltage rated value of magnet coil at AC  230 V		
• at 60 Hz rated value  operating range factor control supply voltage rated value of magnet coil at AC		230 V
operating range factor control supply voltage rated value of magnet coil at AC		
magnet coil at AC		
• at 50 Hz 0.8 1.1		
	● 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	37 VA
● at 60 Hz	33 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	
● at 50 Hz	5.7 VA
● at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
● at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	5 55 Hill
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
	Olandard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous	2
contact	
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
	2 A
• at 125 V rated value	
• 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	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	11 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	- 1
— at 200/208 V rated value	3 hp
— at 200/200 V rated value  — at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
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		
with type of coordination 1 required	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)	
with type of assignment 2 required	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	90. 1077 (000 7, 1 107)	
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	58 mm	
width	45 mm	
depth	117 mm	
required spacing		
<ul><li>with side-by-side mounting</li></ul>		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	0 mm	
for grounded parts		
— 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	screw-type terminals	
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals	
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals	
of magnet coil	Screw-type terminals	
type of connectable conductor cross-sections for main contacts		
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	
<ul> <li>solid or stranded</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²	
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
connectable conductor cross-section for main contacts		
• solid	0.5 4 mm²	
• stranded	0.5 4 mm²	
finely stranded with core end processing	0.5 2.5 mm²	
connectable conductor cross-section for auxiliary contacts		
solid or stranded	0.5 4 mm²	
finely stranded with core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
for auxiliary contacts		
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12	
AWG number as coded connectable conductor cross section		
• for main contacts	20 12	
for main contacts     for auxiliary contacts	20 12	
	20 12	
•		
Safety related data		
Safety related data product function	Voc	
Safety related data	Yes No	

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>



	EMC	Functional Safety/Safety of Ma- chinery	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=3RT2017-1AP04-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1AP04-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AP04-3MA0

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

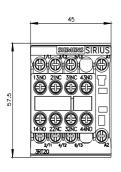
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1AP04-3MA0&lang=en

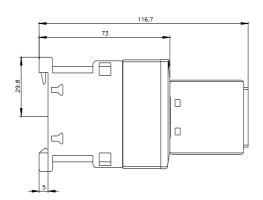
Characteristic: Tripping characteristics, I²t, Let-through current

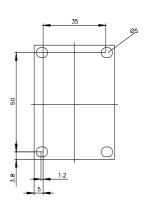
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AP04-3MA0/char

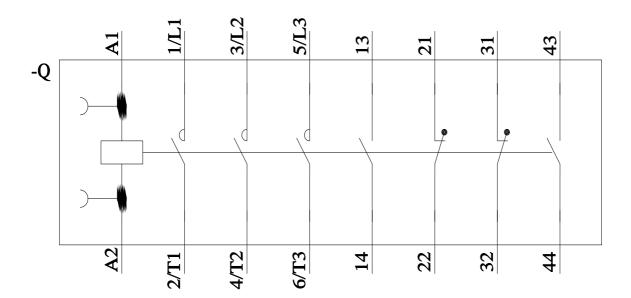
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-1AP04-3MA0&objecttype=14&gridview=view1









last modified:

2/10/2023

