## **SIEMENS**

Data sheet 3RT2017-1UB42



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, with integrated varistor, auxiliary contacts: 1 NC, screw terminal, size: S00  $\,$ 

product brand name	SIRIUS
product designation	Coupling 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	Yes
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
without load current share typical	4 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 DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
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
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V

at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	22 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	22 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	20 A
• 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  — up to 500 V for current peak value n=20 rated value	7.2 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	6.7 A
	0.7 A
• at AC-6a	404
— 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
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm <sup>2</sup>
73.130	
operational current for approx. 200000 operating cycles at	
AC-4	44.6
AC-4  • at 400 V rated value	4.1 A
AC-4  • at 400 V rated value  • at 690 V rated value	4.1 A 3.3 A
AC-4  • at 400 V rated value  • at 690 V rated value  operational current	
AC-4	3.3 A
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	3.3 A 20 A
AC-4	3.3 A 20 A 20 A
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	3.3 A 20 A 20 A 2.1 A
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	3.3 A 20 A 20 A 2.1 A 0.8 A
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	3.3 A  20 A  20 A  20 A  2.1 A  0.8 A  0.6 A
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	3.3 A 20 A 20 A 2.1 A 0.8 A
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	3.3 A  20 A  20 A  20 A  2.1 A  0.8 A  0.6 A
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	3.3 A  20 A  20 A  20 A  2.1 A  0.8 A  0.6 A
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	3.3 A  20 A  20 A  2.1 A  0.8 A  0.6 A  0.6 A
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 22 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value	3.3 A  20 A  20 A  2.1 A  0.8 A  0.6 A  0.6 A
• 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	3.3 A  20 A  20 A  2.1 A  0.8 A  0.6 A  0.6 A  20 A
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  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 110 V rated value	3.3 A  20 A  20 A  2.1 A  0.8 A  0.6 A  0.6 A  20 A  20 A
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	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  12 A  1.6 A
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 440 V rated value	3.3 A  20 A  20 A  2.1 A  0.8 A  0.6 A  0.6 A  20 A  20 A  21 A  20 A  20 A  20 A  20 A  20 A  20 A
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  • 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 24 V rated value  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value	3.3 A  20 A  20 A  2.1 A  0.8 A  0.6 A  0.6 A  20 A  20 A  21 A  20 A  20 A  20 A  20 A  20 A  20 A
• 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 20 V rated value  — at 440 V rated value  — at 600 V rated value	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  12 A  1.6 A  0.8 A  0.7 A
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 110 V rated value  — at 110 V rated value  — at 400 V rated value  — at 440 V rated value  — at 110 V rated value  — at 110 V rated value  — at 440 V rated value  — at 600 V rated value  — at 440 V rated value  — at 600 V rated value	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  12 A  1.6 A  0.8 A  0.7 A
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 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 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 110 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value	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  12 A  1.6 A  0.8 A  0.7 A  20 A  20 A
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 60 V rated value  — at 60 V rated value  — at 60 V rated value  — at 110 V rated value  — at 440 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 25 V rated value  — at 26 V rated value  — at 27 V rated value  — at 28 V rated value  — at 29 V rated value  — at 20 V rated value  — at 20 V rated value  — at 20 V rated value	20 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 12 A 1.6 A 0.8 A 0.7 A  20 A 20 A 20 A 20 A
• 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 60 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value  — at 240 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 24 V rated value — at 24 V rated value — at 250 V rated value — at 260 V rated value — at 270 V rated value — at 470 V rated value	20 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20
• 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 110 V rated value — at 220 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 — at 22 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value	20 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 12 A 1.6 A 0.8 A 0.7 A  20 A 20 A 20 A 20 A
• 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 110 V rated value — at 220 V rated value — at 440 V rated value — at 220 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 600 V rated value — at 440 V rated value — at 600 V rated value	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  12 A  1.6 A  0.8 A  0.7 A  20 A  20 A  20 A  20 A  20 A
• 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 440 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 220 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 24 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 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value	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 12 A 1.6 A 0.8 A 0.7 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 2
• 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 110 V rated value — at 220 V rated value — at 440 V rated value — at 220 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 600 V rated value — at 440 V rated value — at 600 V rated value	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  12 A  1.6 A  0.8 A  0.7 A  20 A  20 A  20 A  20 A  20 A

- act 20 V rated value	with 2 surrent meths in series at DC 2 at DC 5	
	with 2 current paths in series at DC-3 at DC-5     at 24 V reted value.	20.4
with 3 current paths in series at DC-3 at DC-5		
		0.35 A
	-	20.4
— at 600 V rated value		
operating power  • at AC-2 at 400 V rated value  • at AC-2 at 400 V rated value  - at 400 V rated value  - at 500 V rated value  - at 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 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  - 10 to 600 V for current peak value n=30 rated value  - 10 to		
		U.2 A
- at 230 V rated value		5.5 kW
		C.O RVV
		3 kW
- at 500 V rated value		
- at 800 V rated value   • at AC-3e   - at 230 V rated value   - at 400 V rated value   - at 600		
at AC-3e  at 400 V rated value  at 600 V rated value  at 600 V rated value  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 kW  at 600 V rated value  2 kW  by 600 V rated value  2 kW  2 kW  2 kW  2 kW  2 kW  4 to 530 V for current peak value n=20 rated value  4 up to 500 V for current peak value n=20 rated value  4 up to 500 V for current peak value n=20 rated value  4 up to 500 V for current peak value n=30 rated value  4 up to 500 V for current peak value n=30 rated value  5.5 kW  operating apparent power at AC-6a  4 up to 500 V for current peak value n=20 rated value  4 kWA  5.6 kW  6 up to 600 V for current peak value n=20 rated value  6 up to 600 V for current peak value n=30 rated value  7 up to 600 V for current peak value n=30 rated value  8 kWA  1.9 kWA		
- at 230 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 500 V rated value - 5.5 kW - at 500 V rated value - 2.5 kW - at 500 V rated value - 2.5 kW - at 500 V rated value - 2.5 kW - at 500 V rated value - 2.5 kW - at 500 V rated value - 2.5 kW - at 500 V rated value - 2.5 kW - operating apparent power at AC-6a - 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 cu		
- at 400 V rated value 5.5 kW - at 500 V rated value 5.5 kW  operating power for approx. 200000 operating cycles at AC-4  * at 400 V rated value 2.8 kW • at 690 V rated value 2.8 kW • at 690 V rated value 2.8 kW • at 690 V rated value 2.8 kW • up to 230 V for current peak value n=20 rated value 4.9 kWA • up to 400 V for current peak value n=20 rated value 4.9 kWA • up to 400 V for current peak value n=20 rated value 9.2 kWA • up to 500 V for current peak value n=30 rated value 4.1 kWA • up to 400 V for current peak value n=30 rated value 4.1 kWA • up to 500 V for current peak value n=30 rated value 9.0 kWA • up to 500 V for current peak value n=30 rated value 6.7 kWA  * up to 500 V for current peak value n=30 rated value 9.0 kWA • up to 500 V for current peak value n=30 rated value 9.0 kWA • up to 500 V for current peak value n=30 rated value 9.7 kWA  * initiated to 1 s switching at zero current maximum 6. limited to 10 s switching at zero current maximum 7.2 kWa benefits at zero current maximum 6. limited to 60 s switching at zero current maximum 7.2 kWa benefits at 200 kWa benefits at 20		3 kW
- at 500 V rated value 5.5 kW - at 690 V rated value 5.5 kW  operating power for approx. 200000 operating cycles at AC-4 4		
operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value 2 kW at 800 V rated value 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 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 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 through value up to 500 V for current th		
operating power for approx. 200000 operating cycles at AC- 4  * at 400 V rated value * at 890 V rated value * 2 kW  * at 890 V rated value * 2 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 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 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 10 s switching at zero current maximum * limited to 10 s switching at zero current maximum * limited to 10 so switching at zero current maximum * limited to 10 so 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-1 maximum * at AC-2 maximum * at AC-2 maximum * at AC-2 maximum * at AC-3 maximum * at AC-4 maximum * at AC-5 maximum * at AC-6 maximum * at AC-7 maximum * a		
at 400 V rated value at 690 V rated value 2,5 kW  operating apparent power at AC-6a 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 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 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 5.7 kVA  short-time withstand current in cold operating state up to 40 °C  imited to 1s switching at zero current maximum imited to 10 s switching at zero current maximum imited to 30 s switching at zero current maximum imited to 30 s switching at zero current maximum imited to 60 s switching at zero current maximum finited to 60 s switching at zero current maximum finited to 60 s switching at zero current maximum finited to 60 s switching at zero current maximum finited to 60 s switching at zero current maximum finited to 60 s switching at zero current maximum finited to 60 s switching at zero current maximum finited to 60 s switching at zero current maximum finited to 60 switching frequency at AC-3 maximum finited to 60 switching frequency at AC-3 maximum finited to 60 switching structurent maximu		
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 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  in the 500 V for current peak value n=30 rated value  il mitted to 1 s switching at zero current maximum  il mitted to 1 s switching at zero current maximum  il mitted to 10 s switching at zero current maximum  il mitted to 10 s switching at zero current maximum  il mitted to 60 s switching at zero current maximum  il mitted to 60 s switching at zero current maximum  il mitted to 60 s switching at zero current maximum  il mitted to 60 s switching at zero current maximum  il mitted to 60 s switching at zero current maximum  il mitted to 60 s switching at zero current maximum  il mitted to 60 s switching at zero current maximum  il mitted to 60 s switching at zero current maximum  il mitted to 60 s switching at zero current maximum  il mitted to 60 switching frequency  at DC  operating frequency  at DC  in 000 1/h  other current frequency  at AC-2 maximum  at AC-3 maximum  other current frequency  at AC-4 maximum  other current frequency  at AC-5 maximum  other current frequency  at AC-6 maximum  other current frequency  at AC-6 maximum  other current frequency  at AC-6 m		
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 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 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  5.7 kVA   200 A; Use minimum cross-section acc. to AC-1 rated value  123 A; Use minimum cross-section acc. to AC-1 rated value  • 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  • at DC  10 000 1/h  • 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-3 maximum  • at AC-3 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-5 maximum  • at AC-5 maximum  • at AC-6 maximu	<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=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 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     • 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 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	at 690 V rated value	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 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 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 50 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • l		
• up to 500 V for current peak value n=20 rated value     • 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 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 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 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 maximum		
• up to 690 V for current peak value n=20 rated value     operating apparent power at AC-8a     • 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     • 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 5 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 DC		
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  • 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  • ilmited 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 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 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  • 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  • 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 zer		
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  ilimited to 1 s switching at zero current maximum ilimited to 5 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 80 s switching at zero current maximum ilimited to 80 s switching at zero current maximum ilimited to 80 s switching at zero current maximum at DC  at DC  operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum  at AC-3 maximum  tat A		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  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 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 alimited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum and limited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum 10-load switching frequency at DC  operating frequency at AC-1 maximum 1000 1/h at AC-2 maximum 250 1/h at AC-3 maximum 250 1/h  at AC-3 maximum 250 1/h  ot AC-3 maximum 250 1/h  control circuit/ Control type of voltage of the control supply voltage  control supply voltage at DC arread value  operating range factor control supply voltage rated value of magnet coil at DC initial value  initial value  full-scale value  0.8  full-scale value  with varistor		
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  rol-load switching frequency  at DC  operating frequency  at AC-1 maximum  at AC-2 maximum  at AC-3 maximum  at AC-3 maximum  at AC-3 maximum  to 1000 1/h  at AC-3 maximum  at AC-3 maximum  at AC-4 maximum  but AC-4 maximum  control circuit/ Control  type of voltage of the control supply voltage  roll at DC  operating range factor control supply voltage rated value of magnet coll at DC  ointial value  full-scale value  ols full-scale value  full-scale value  owth varistor		
• 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  • la Co-1 rated value  • at AC-1 rated value  • at AC-2 maximum  • at AC-3	·	
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 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 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • 10 000 1/h • 10 000 1/h • 10 000 1/h • 20 000 1/h • 2	·	
Ilmited to 1 s switching at zero current maximum   200 A; Use minimum cross-section acc. to AC-1 rated value		5.7 KVA
<ul> <li>Ilmited to 5 s switching at zero current maximum</li> <li>Ilmited to 10 s switching at zero current maximum</li> <li>Ilmited to 10 s switching at zero current maximum</li> <li>Ilmited to 30 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Ilmited to 60 s switching at zero current maximum</li> <li>Illited to 60 s switching at zero current maximum</li> <li>Illited to 60 s switching at zero current maximum</li> <li>Illited to 60 s switching at zero current maximum</li> <li>Illited to 60 s switching at zero current maximum</li> <li>Illited to 60 s switching at zero current maximum</li> <li>Illited to 60 s switching at zero current maximum</li> <li>Illited to 60 s switching at zero current maximum</li> <li>Illited to 60 s switching at zer</li></ul>		
Ilimited to 10 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 Ino-load switching frequency Ino-load switching frequency Illustration at DC Illustration 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 Initial to 60 s switching at zero current maximum Initial to 60 s switching at zero current maximum  Initial to 60 s switching at zero current maximum  Initial value Initial	<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
Iminited to 60 s switching at zero current maximum  In o-load switching frequency  In o operating frequency  In o on the switching	• limited to 10 s switching at zero current maximum	96 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency  • at DC  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 e maximum  750 1/h  • at AC-4 maximum  250 1/h  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC  • rated value  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  1.1  design of the surge suppressor  with varistor	• limited to 30 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
at DC 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-3 maximum 750 1/h at AC-4 maximum 750 1/h  Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC initial value initial value 6.8 full-scale value 1.1 design of the surge suppressor with varistor	• limited to 60 s switching at zero current maximum	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 DC  • rated value  • rated value  • rated value  • initial value  • initial value  • full-scale value  design of the surge suppressor  with varistor	no-load switching frequency	
at AC-1 maximum  at AC-2 maximum  at AC-3 maximum  at AC-3 maximum  at AC-3e maximum  at AC-3e maximum  at AC-4 maximum  at AC-4 maximum  250 1/h  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC  arated value  arated value  arated value  arated value  britilal value  arated value  arated value  arated value  arated value  britilal value  arated value  arated value  arated value  arated value  arated value  arated value of magnet coil at DC  arated value  arated	• at DC	10 000 1/h
at AC-2 maximum  at AC-3 maximum  at AC-3e maximum  at AC-3e maximum  at AC-4 maximum  250 1/h  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC  arated value  arated value  perating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value  design of the surge suppressor  vith varistor	operating frequency	
at AC-3 maximum  at AC-3e maximum  at AC-4 maximum  250 1/h  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC  arated value  operating range factor control supply voltage rated value of magnet coil at DC  initial value  after the control supply voltage rated value of magnet coil at DC  after the control supply voltage rated value of magnet coil at DC  after the control supply voltage rated value of magnet coil at DC  after the control supply voltage rated value of magnet coil at DC  after the control supply voltage rated value of magnet coil at DC  after the control supply voltage rated value of magnet coil at DC  after the control supply voltage rated value of with varistor	• 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>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>full-scale value</li> <li>design of the surge suppressor</li> </ul> with varistor	• at AC-2 maximum	750 1/h
■ at AC-4 maximum  Control circuit/ Control  type of voltage of the control supply voltage  control supply voltage at DC      ■ rated value  operating range factor control supply voltage rated value of magnet coil at DC      ■ initial value      ■ full-scale value  design of the surge suppressor  250 1/h   CONTROL SUPPLY VOLTAGE  DC  24 V  0.8  1.1  design of the surge suppressor  with varistor	• at AC-3 maximum	750 1/h
type of voltage of the control supply voltage  control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  design of the surge suppressor  DC  24 V  08  08  1.1  design of the surge suppressor	• at AC-3e maximum	750 1/h
type of voltage of the control supply voltage  control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  design of the surge suppressor  DC  24 V  08  1.1  design of the surge suppressor		250 1/h
control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  design of the surge suppressor  24 V  0.8  1.1  design of the surge suppressor  with varistor		
• rated value		DC
operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  1.1  design of the surge suppressor  with varistor		
magnet coil at DC		24 V
<ul> <li>initial value</li> <li>full-scale value</li> <li>design of the surge suppressor</li> <li>with varistor</li> </ul>		
• full-scale value  design of the surge suppressor  with varistor		0.8
design of the surge suppressor with varistor		

holding nowar of magnet soil at DC	4 W
holding power of magnet coil at DC	4 **
closing delay  • at DC	30 100 ms
	30 100 HIS
opening delay  • at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Standard 711 712
number of NC contacts for auxiliary contacts instantaneous	1
contact	'
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 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	10 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]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— 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	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 50A (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)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
_	Yes
side-by-side mounting  height	58 mm
height width	45 mm
WIGHT	TO HILL
depth	73 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
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals Screw-type terminals
type of connectable conductor cross-sections for main contacts	colon type terminale
solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
solid     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)
connectable conductor cross-section for main contacts	0.5 4 mm²
• solid	0.5 4 mm <sup>2</sup>
stranded	0.5 4 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	0.5 4 2
solid or stranded	0.5 4 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	0 (0 - 4 - 2) 0 (0 - 2 - 2 - 2) 0 4 2
— 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 auxiliary contacts	20 12
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
B10 value with high demand rate according to SN 31920	1 000 000
	1 000 000
proportion of dangerous failures	40.94
with low demand rate according to SN 31920      with high demand rate according to SN 31920	40 % 73 %
with high demand rate according to SN 31920  failure rate [EIT] with low demand rate according to SN 31920	
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	
safety-related switching on	Yes
safety-related switching OFF	Yes
Certificates/ approvals	
General Product Approval	
Ceneral i Toudet Approval	



Confirmation





<u>KC</u>



**Functional EMC** Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Cer**tificate** 





**Special Test Certific-**<u>ate</u>

Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping

other

Railway

**Dangerous Good** 

**Environment** 



Confirmation



Vibration and Shock

**Transport Information** 

Environmental Con**firmations** 

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,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-1UB42

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1UB42

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

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

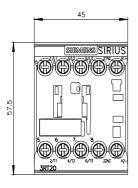
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1UB42&lang=en

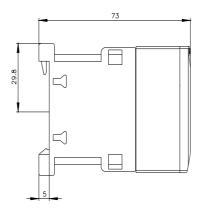
Characteristic: Tripping characteristics, I2t, Let-through current

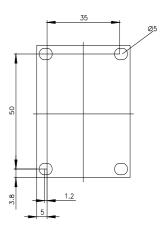
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1UB42/char

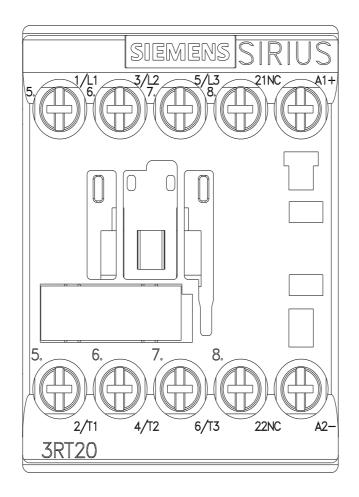
Further characteristics (e.g. electrical endurance, switching frequency)

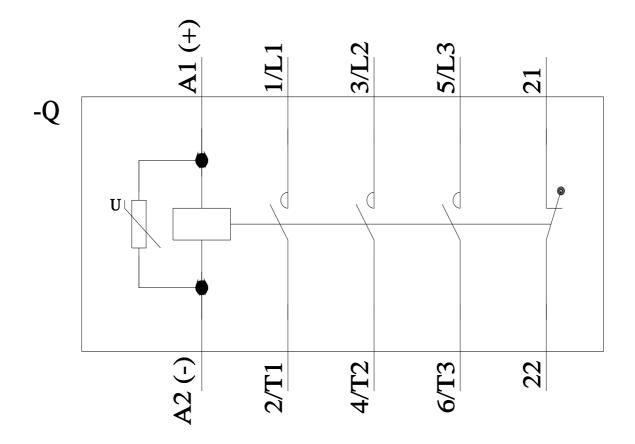
3RT2017-1UB42&objecttype=14&gridview=view1











last modified: 2/10/2023 🖸