# **SIEMENS**

## Data sheet 3RT2017-2FF48-0KT1

0101110



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 110 V DC, with integrated diode, auxiliary contacts: 2 NO + 3 NC, spring-loaded terminal, size: S00, 3RH2921-2DA11 (1 NO + 1 NC), mounted left and right

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
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
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at 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
<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	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	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
· · · · · · · · · · · · · · · · · · ·	
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 mm² 4.1 A
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  • 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 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 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 60 V rated value  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 10 V rated value  — at 220 V rated value  — at 24 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 24 V rated value	
with 2 current paths in series at DC-3 at DC-5	— at 60 V rated value	0.5 A
	— at 110 V rated value	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 28 V rated value ### at 20 A  ### at 110 V rated value ### at 20 A  ### at 110 V rated value ### at 20 A  ### at 40 V rated value ### at 20 A  ### at 40 V rated value ### at 50 V rated value ### up to 50 V for current pack value m=20 rated value ### up to 50 V for current pack value m=20 rated value ### up to 50 V for current pack value m=20 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value m=30 rated value ### up to 50 V for current pack value	— 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
	— at 220 V rated value	1.5 A
September   Sept	— at 440 V rated value	0.2 A
at AC-2 at 400 V rated value   5.5 kW   5.5 kW   - at 400 V rated value   5.5 kW   5.5 kW   - at 400 V rated value   2.8 kW   - at 400 V rated value   - 20 rated value   2.8 kW   - at 400 V rated value   - 20 rated value   2.8 kW   - at 400 V rated value   - 20 rat	— at 600 V rated value	0.2 A
at AC-2 at 400 V rated value   5.5 kW   5.5 kW   - at 400 V rated value   5.5 kW   5.5 kW   - at 400 V rated value   2.8 kW   - at 400 V rated value   - 20 rated value   2.8 kW   - at 400 V rated value   - 20 rated value   2.8 kW   - at 400 V rated value   - 20 rat	operating power	
		5.5 kW
	• at AC-3	
		3 kW
at 690 V rated value		
		3 kW
- at 500 V rated value		
operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • at 690 V rated value • 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=20 rated value • up to 500 V for current peak value n=20 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 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 maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 5 switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 50 switching at zero current maximum • Ilmited to 50 switching at zero current maximum • Ilmited to 50 switching at zero current maximum • Ilmited to 50 switching at zero current maximum • Ilmited to 50 switching at zero current maximum • Ilmited to 50 switching		
operating power for approx. 200000 operating cycles at AC- 4  • at 400 V rated value • at 890 V rated value • 2 kW  2.5 kW  operating apparent power at AC-8  • 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 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 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 • thort-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 50 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 • limited to 60 s switching at zero current maximum • limited to 60 s switc		
at 400 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 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 up to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current naximum value to 600 v for current nax		C.O KVV
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 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 • 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 • 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 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 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 cu		
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 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 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 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • limited to 1 s switching at zero current maximum  • limited to 1 s switching at zero current maximum  • limited to 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 switching at zero current maximum  • limited to 60 switching at zero current maximum  • limited to 60 switching at zero current maximum  • limited to 60 switching at zero current maximum  • limited to 60 switching at zero current maximum  • limited to 60 switching at zero current maximum  • limited to 60 switching at zero current maximum  • limited to 60 switching at zero current maximum  • limited to 60 switching at zero current maximum  • limited to 60 switching at zero current maximum  • limited to 60 switching at	at 400 V rated value	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 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 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 1 s switching at zero current maximum     • limited to 1 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current 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     •	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     vup 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 690 V for current peak value n=30 rated value     vup to 500 V for current peak value n=30 rated value     vup to 690 V for current maximum cross-section acc. to	operating apparent power at AC-6a	
up to 500 V for current peak value n=20 rated value     up to 690 V for current peak value n=20 rated value     up to 230 V for current peak value n=30 rated value     up to 400 V for current peak value n=30 rated value     up to 500 V for current peak value n=30 rated value     up to 500 V for current peak value n=30 rated value     up to 500 V for current peak value n=30 rated value     up to 500 V for current peak value n=30 rated value     up to 690 V for current peak value n=30 rated value     value short-time withstand current in cold operating state up to 40 °C      limited 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 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching frequency     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching frequency     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximu	• up to 230 V for current peak value n=20 rated value	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 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 400 V for current peak value n=20 rated value	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 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  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  or load switching frequency • at DC  operating frequency • at AC-1 maximum  1 000 1/h • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum •	• up to 500 V for current peak value n=20 rated value	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     short-time withstand current in cold operating state up to 40 °C      ilmited to 1 s switching at zero current maximum     ilmited to 5 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to 30 s switching at zero current maximum     ilmited to 60 s switc	• up to 690 V for current peak value n=20 rated value	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 500 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 10 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum olioad switching frequency at DC  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 250 1/h at AC-3 maximum 250 1/h cat AC-4 maximum 250 1/h at AC-3 maximum 250 1/h cat AC-4 maximum 250 1/h at AC-3 maximum 250 1/h at AC-3 maximum 250 1/h cat AC-4 maximum 250 1/h at AC-3 maximum 250 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 arated value  Operating range factor control supply voltage rated value of magnet coil at DC	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  ilmited to 5 s switching at zero current maximum  ilmited to 10 s switching at zero current maximum  ilmited to 10 s switching at zero current maximum  ilmited to 30 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching frequency  at DC  10 000 1/h  operating frequency  at AC-1 maximum  at AC-2 maximum  interpretation acc. to AC-1 rated value  10 000 1/h  at AC-3 maximum  interpretation acc. to AC-1 rated value  10 000 1/h  ot AC-1 rated value  10 000 1/h  ot AC-1 rated value  10 000 1/h  ot AC-3 maximum  interpretation acc. to AC-1 rated value  10 000 1/h  ot AC-3 maximum  interpretation acc. to AC-1 rated value  10 000 1/h  ot AC-1 rated value  10 00 1/h  ot AC-1 rated value  10 00 1/h  ot AC-1 rated value  10 00 0 1/h  ot AC-1 rated value  10 00 0 1/h  ot AC-3 maximum  To 1/h  ot AC-3 maximum  To 1/h  ot AC-3 maximum	• up to 230 V for current peak value n=30 rated value	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  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • at DC  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  • at AC-5 maximum  • at AC-6 maximum  • at AC-7 maximum  • at AC-8 maximum  • at AC-8 maximum  • at AC-9 maximu	• up to 400 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 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  no-load switching frequency • at DC  10 000 1/h  operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3e maximum • at AC-3e maximum • at AC-3e maximum • at AC-4 maxim	• up to 500 V for current peak value n=30 rated value	4.1 kVA
40 °C   Ilmited to 1 s switching at zero current maximum   200 A; Use minimum cross-section acc. to AC-1 rated value   Ilmited to 5 s switching at zero current maximum   123 A; Use minimum cross-section acc. to AC-1 rated value   Ilmited to 10 s switching at zero current maximum   96 A; Use minimum cross-section acc. to AC-1 rated value   Ilmited to 30 s switching at zero current maximum   74 A; Use minimum cross-section acc. to AC-1 rated value   Ilmited to 60 s switching at zero current maximum   61 A; Use minimum cross-section acc. to AC-1 rated value	• up to 690 V for current peak value n=30 rated value	5.7 kVA
40 °C   Ilmited to 1 s switching at zero current maximum   200 A; Use minimum cross-section acc. to AC-1 rated value   Ilmited to 5 s switching at zero current maximum   123 A; Use minimum cross-section acc. to AC-1 rated value   Ilmited to 10 s switching at zero current maximum   96 A; Use minimum cross-section acc. to AC-1 rated value   Ilmited to 30 s switching at zero current maximum   74 A; Use minimum cross-section acc. to AC-1 rated value   Ilmited to 60 s switching at zero current maximum   61 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>A; Use minimum cross-section acc. to AC-1 rated value</li> <li>acc. to AC-1 rated value</li> <li>at DC</li> <li>10 000 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>bype of voltage of the control supply voltage</li> <li>control circuit/ Control</li> <li>type of voltage at DC</li> <li>rated value</li> <li>rated value</li> <li>110 V</li> </ul> operating range factor control supply voltage rated value of magnet coil at DC		
<ul> <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 frequency</li> <li>at DC</li> <li>Ilmited to 60 s switching frequency</li> <li>at DC</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 section acc. to AC-1 rated value</li> <li>Ilmited to 60 s switching at zero current section acc. to AC-1 rated value</li> <li>Ilmited to 60 s switching at zero current section acc. to AC-1 rated value</li> <li>Ilmited to 60 s switching at zero current section acc. to AC-1 rated value</li> <li>Ilmited to 60 s switching at zero current section acc. to AC-1 rated value</li> <li>Ilmited to 60 s switching at zero current section acc. to AC-1 rated value</li> <li>Ilmited to 60 s switching at zero current section acc. to AC-1 rated value</li> <li>Ilmited to AC-1 maximum acc. to AC-1 rated value</li> <li>Ilmited to AC-1 maximu</li></ul>	<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
Imited to 30 s switching at zero current maximum Imited to 61 A; Use minimum cross-section acc. to AC-1 rated value 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 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 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 swi	<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
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 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 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 to 60 s switching at zero current maximum  Initial to 60 s switching at zero current maximum  Initial to 61 A; Use minimum cross-section acc. to AC-1 rated value of maximum cross-section acc. to AC-1 rated value  Initial to 80 s at DC  Initial to 80 s at AC-1 rated value  Initial to 90 s at AC-1 rated value  Initial to	<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 DC  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  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  10 000 1/h  10 0	<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
at DC  operating frequency  at AC-1 maximum  at AC-2 maximum  at AC-3 maximum  at AC-3 maximum  at AC-3 maximum  at AC-3 maximum  at AC-4 maximum  750 1/h  at AC-4 maximum  750 1/h  ot 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	<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  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	no-load switching frequency	
at AC-2 maximum  at AC-2 maximum  at AC-3 maximum  at AC-3 maximum  at AC-3 maximum  at AC-3e 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  arated value  arated value  operating range factor control supply voltage rated value of magnet coil at DC	• at DC	10 000 1/h
at AC-2 maximum  at AC-3 maximum  at AC-3 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  operating range factor control supply voltage rated value of magnet coil at DC  Total Control supply voltage rated value of magnet coil at DC	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  750 1/h  DC  Control 1/h  DC  110 V	• at AC-1 maximum	1 000 1/h
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  rated value 110 V  operating range factor control supply voltage rated value of magnet coil at DC	• 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  250 1/h  DC	• at AC-3 maximum	750 1/h
type of voltage of the control supply voltage DC  control supply voltage at DC  • rated value 110 V  operating range factor control supply voltage rated value of magnet coil at DC	• 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	• at AC-4 maximum	250 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	Control circuit/ Control	
control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC		DC
• rated value 110 V  operating range factor control supply voltage rated value of magnet coil at DC		
operating range factor control supply voltage rated value of magnet coil at DC		110 V
magnet coil at DC		
● initial value 0.8		
	initial value	0.8

• full-scale value	1.1
design of the surge suppressor	diode
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	- + W
• at DC	30 100 ms
	30 100 IIIS
opening delay  • at DC	38 65 ms
	10 15 ms
arcing time  control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Standard A1 - A2
number of NC contacts for auxiliary contacts instantaneous	3
contact	3
number of NO contacts for auxiliary contacts instantaneous	2
contact	10 A
operational current at AC-12 maximum	10 A
operational current at AC-15	0.4
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
• at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	6 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
<ul> <li>at 60 V rated value</li> </ul>	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 125 V rated value</li> </ul>	0.9 A
at 220 V rated value	0.3 A
<ul> <li>at 600 V rated value</li> </ul>	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
<ul> <li>at 600 V rated value</li> </ul>	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	
— 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	
— 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)
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
side-by-side mounting	Yes
height	70 mm
width	65 mm
depth	73 mm
required spacing	
with side-by-side mounting	
— 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	spring-loaded terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	0 (0.5 4 3)
• solid	2x (0.5 4 mm²)
solid or stranded     finally attended with case and processing.	2x (0,5 4 mm²)
finely stranded with core end processing     finely stranded without core and processing	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts  • solid	0.5 4 mm²
solid     stranded	0.5 4 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>
finely stranded with core end processing     finely stranded without core end processing	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	0.0 2.0 Hilli
solid or stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>
finely stranded without core end processing	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 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; with 3RH29
positively driven operation according to IEC 60947-5-1	No
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC	20 a

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

suitability for use

• safety-related switching OFF

Yes

Certificates/ approvals

#### **General Product Approval**



Confirmation





<u>KC</u>



**EMC** 

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

### Marine / Shipping













other

Railway

**Dangerous Good** 

Environment

Confirmation



Vibration and Shock

**Transport Information** 

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=3RT2017-2FF48-0KT1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2FF48-0KT1

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2FF48-0KT1

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

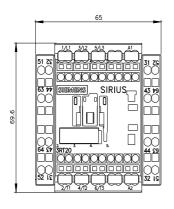
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-2FF48-0KT1&lang=en

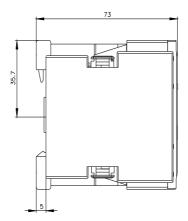
Characteristic: Tripping characteristics, I2t, Let-through current

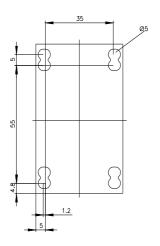
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2FF48-0KT1/char

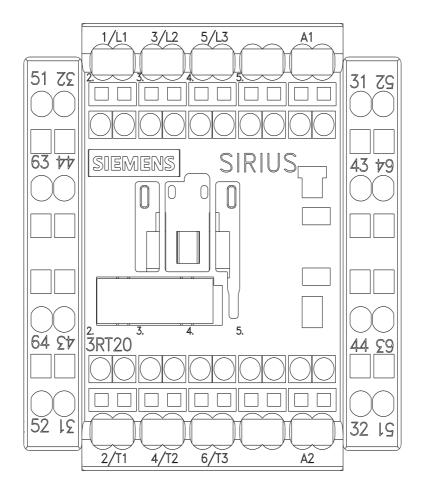
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2FF48-0KT1&objecttype=14&gridview=view1









last modified: 2/10/2023 🖸

