## SIEMENS

## Data sheet

## 3RT2016-1BF42



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 110 V DC, auxiliary contacts: 1 NC, screw terminal, size: S00

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	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
<ul> <li>without load current share typical</li> </ul>	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	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-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
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
● at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 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	7.4 A
• at AC-6a	5.2.4
— up to 230 V for current peak value n=20 rated value	5.3 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	5.3 A 5.3 A
— up to 500 V for current peak value n=20 rated value	5.5 A
• at AC-6a	54
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3.5 A
— up to 200 V for current peak value n=30 rated value	3.5 A
— up to 500 V for current peak value n=30 rated value	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated	4 mm <sup>2</sup>
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
<ul> <li>with 3 current paths in series at DC-1</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	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

	— at 24 V rated value	20 A				
+vih 2 current paths in series at DC-3 at DC-5     - at 24 V relativation     - at 100 V relativation     - at 110 V relativation     - at 110 V relativation     - at 110 V relativation     - at 24 V relativation     - at 25 V relativation     - at 26 V relat	— 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 path in series at DC-3 at DC-5         -at 24 Y rado value         -at 24 Y rado value         20 A         -at 310 V rado value         20 A         -at 320 V rado value         20 A         -at 320 V rado value         20 A         -at 320 V rado value         40 V rado value         20 V rado 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				
operating power <ul> <li>at AC3</li> <li>cl 230 V rated value</li> <li>cl 230 V rated value</li> <li>cl 240 V rated value</li> <li>cl 240 V rated value</li> <li>cl 250 V rated value</li> <li>cl 22 kW</li> <li>cl 230 V rated value</li> <li>cl 24 kW</li> <li>cl 400 V rated value</li> <li>cl 4 kW</li> <li>cl 4 cl 20 V for current pack value n=20 rated value</li> <li>cl 4 kW</li> <li>cl 4 cl 20 V for current pack value n=20 rated value</li> <li>cl 4 kVA</li> <li>cl 4 cl 20 V for current pack value n=20 rated value</li> <li>cl 4 kVA</li> <li>cl 4 cl 20 V for current pack value n=20 rated value</li> <li>cl 4 kVA</li> <li>cl b 0 kO V for current pack value n=20 rated value</li> <li>cl 4 kVA</li> <li>cl b 0 kO V for current pack value n=30 rated value</li> <li>cl 4 kVA</li> <li>cl b 0 kO V for current pack value n=30 rated value</li> <li>cl kVA</li> <li>cl b 0 kO V for current pack value n=30 rated value</li> <li>cl kVA</li> <li>cl 13 kVA</li> <li>cl 14 kV</li></ul>	— at 440 V rated value	0.2 A				
er at AC-3	— at 600 V rated value	0.2 A				
	operating power					
	• at AC-3					
	— at 230 V rated value	2.2 kW				
• at AC-3e         - at 230 V rated value         2.2 kW           at 230 V rated value         4 kW           at 690 V rated value         4 kW           at 690 V rated value         4 kW           at 690 V rated value         5 kW           operating power for approx. 20000 operating cycles at AC-4         2 kW           • at 600 V rated value         2 kW           • at 600 V rated value         2 kW           • at 600 V rated value         2 kW           • at 600 V for current peak value n=20 rated value         3 kVA           • up to 200 V for current peak value n=20 rated value         3 kVA           • up to 600 V for current peak value n=20 rated value         5 kVA           • up to 600 V for current peak value n=20 rated value         5 kVA           • up to 600 V for current peak value n=30 rated value         1 kVA           • up to 600 V for current peak value n=30 rated value         3 kVA           • up to 600 V for current peak value n=30 rated value         3 kVA           • up to 600 V for current peak value n=30 rated value         4 kVA           • up to 600 V for current maximum         155 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 1 s switching at zero current maximum         16 A; Use minimum cross-section acc. to AC-1 rated value           • limited to 1						
		2.2 kW				
operating power for approx. 200000 operating cycles at AC-4       2         4       e at 400 V rated value       2 kW         e. et 690 V rated value       2.5 kW         operating apparent power at AC-6a       2 kVA         • up to 230 V for current peak value n=20 rated value       3.6 kVA         • up to 560 V for current peak value n=20 rated value       3.6 kVA         • up to 560 V for current peak value n=30 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       4.6 kVA         • up to 500 V for current peak value n=30 rated value       5.9 kVA         • up to 500 V for current peak value n=30 rated value       5.4 kVA         • up to 500 V for current peak value n=30 rated value       4.6 kVA         • up to 500 V for current peak value n=30 rated value       5.4 kVA         • up to 500 V for current peak value n=30 rated value       111 A; Use minimum cross-section acc. to AC-1 rated value         • imited to 10 s switching at zero current maximum						
• at 660 V rated value       2.5 kW         operating apparent power at AC-6a       2 kVA         • up to 230 V for current peak value n=20 rated value       3.6 kVA         • up to 500 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       5.9 kVA         • up to 500 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       -         • up to 500 V for current peak value n=30 rated value       1.3 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       4.1 kVA         • up to 500 V for current peak value n=30 rated value       4.1 kVA         • up to 500 V for current peak value n=30 rated value       4.1 kVA         • up to 500 V for current peak value n=30 rated value       4.1 kVA         • up to 500 V for current peak value n=30 rated value       4.1 kVA         • up to 500 V for current not od operating state up to 40 *C       6.1 kVA         • inimide to 15 s switching at zero current maximum       115 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         • at AC-1 maxim						
operating apparent power at AC-6a       2 kVA         • up to 230 V for current peak value n=20 rated value       2 kVA         • up to 500 V for current peak value n=20 rated value       3.6 kVA         • up to 500 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       4.4 kVA         short-time withstand current in cold operating state up to 40° °C       4 kVA         • limited to 1 s switching at zero current maximum       115 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         • at AC-1 maximum       100 000 1/h         • at AC-3 maximum       100 000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h	• at 400 V rated value	2 kW				
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>2 kVA</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>3.6 kVA</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>4.6 kVA</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>5.9 kVA</li> <li>operating apparent power at AC-6a</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>2.4 kVA</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>2.4 kVA</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>3.1 kVA</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>3.1 kVA</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>3.1 kVA</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>4 kVA</li> </ul> short-time withstand current in cold operating state up to 40 °C <ul> <li>limited to 1s 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 30 s switching at zero current maximum</li> <li>elimited to 68 switching at zero current maximum</li> <li>66 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>86 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>87 A; Use minimum cross-section acc. to AC-1 rated</li></ul>	• at 690 V rated value	2.5 kW				
• up to 400 V for current peak value n=20 rated value       3.6 kVA         • up to 500 V for current peak value n=20 rated value       4.6 kVA         • up to 690 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       1.3 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       4.1 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       1.5 A; Use minimum cross-section acc. to AC-1 rated value         short-time withstand current in cold operating state up to 40°C       111 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       115 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       10 000 1/h         • doff requency       10 000 1/h         • at AC-3 maximum       1000 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h	operating apparent power at AC-6a					
• up to 500 V for current peak value n=20 rated value       4.6 kVA         • up to 690 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 230 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       4.VA         Short-time withstand current in cold operating state up to 40° C       4 kVA         • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 5 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 5 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 5 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       5 A; Use minimum cross-section acc. to AC-1 rated value         • at DC       10 000 1/h         • at AC-3 maximum       1000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h      <	<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	2 kVA				
• up to 690 V for current peak value n=20 rated value       5.9 kVA         operating apparent power at AC-6a       1.3 kVA         • up to 230 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       2.4 kVA         • up to 690 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       4.kVA         • up to 690 V for current peak value n=30 rated value       4.kVA         short-time withstand current in cold operating state up to 40 °C       • limited to 1 s switching at zero current maximum         • limited to 1 s switching at zero current maximum       115 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 0 s switching at zero current maximum       65 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 0 s switching at zero current maximum       65 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 0 s switching at zero current maximum       65 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 0 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 0 S switching at zero current maximum       50 A; Use minimum cross-section acc. to AC-1 rated value         <	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	3.6 kVA				
operating apparent power at AC-6a <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>1.3 kVA</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>2.4 kVA</li> <li>up to 590 V for current peak value n=30 rated value</li> <li>4 kVA</li> </ul> in the form of current peak value n=30 rated value         3.1 kVA           in to 590 V for current peak value n=30 rated value         4 kVA           short-time withstand current in cold operating state up to 40°C         4 kVA           il innited to 1 s switching at zero current maximum         155 A; Use minimum cross-section acc. to AC-1 rated value           il innited to 10 s switching at zero current maximum         66 A; Use minimum cross-section acc. to AC-1 rated value           il innited to 60 s switching at zero current maximum         66 A; Use minimum cross-section acc. to AC-1 rated value           il innited to 60 s switching at zero current maximum         66 A; Use minimum cross-section acc. to AC-1 rated value           il innited to 60 s switching at zero current maximum         56 A; Use minimum cross-section acc. to AC-1 rated value           no-load switching frequency         10 000 1/h           e at DC         10 000 1/h           operating frequency         1000 1/h           e at AC-3 maximum         750 1/h           e at AC-3 maximum         750 1/h           e at AC-3 maximum	<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	4.6 kVA				
• up to 230 V for current peak value n=30 rated value       1.3 kVA         • up to 400 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       4 kVA         short-time withstand current in cold operating state up to 40 °C       4 kVA         • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       10 000 1/h         • at AC-1 maximum       1000 01/h         • at AC-1 maximum       1000 1/h         • at AC-1 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       200 1/h         • at AC-4 maximum       200 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       200 1/h         • at AC-4 maximum       200 1/h         • a	<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	5.9 kVA				
• up to 400 V for current peak value n=30 rated value       2.4 kVA         • up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 500 V for current peak value n=30 rated value       4 kVA         short-time withstand current in cold operating state up to 40 °C       •         • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       111 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • at DC       10 000 1/h         operating frequency       •         • at AC-1 maximum       1000 1/h         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         • at AC-4 maximum       250 1/h         • at AC-4 maximum       250 1/h         • at AC-4 maximum       <	operating apparent power at AC-6a					
• up to 500 V for current peak value n=30 rated value       3.1 kVA         • up to 690 V for current peak value n=30 rated value       4 kVA         short-time withstand current in cold operating state up to 40 °C       4 kVA         short-time withstand current in cold operating state up to 40 °C       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       115 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 80 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 80 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 80 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 80 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 80 s switching at zero current maximum       50 A; Use minimum cross-section acc. to AC-1 rated value         • at DC       10 0000 1/h         operating frequency       •         • at AC-3 maximum       750 1/h         • at AC-3 maximum       750 1/h         • at AC-4 maximum       250 1/h         Control circult/ Control	<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1.3 kVA				
• up to 690 V for current peak value n=30 rated value4 kVAshort-time withstand current in cold operating state up to 40 °C4 kVA• limited to 1 s switching at zero current maximum155 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum111 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum10 000 1/h• at DC10 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• control supply voltage at DCDC• rated value110 V• operating fractor control supply voltage rated value of magnet coll at DC110 V• operating range factor control supply voltage rated value of the control supply voltage rated value of magnet coll at DC• initial value0.8	<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	2.4 kVA				
• up to 690 V for current peak value n=30 rated value4 kVAshort-time withstand current in cold operating state up to 40 °C4 kVA• limited to 1 s switching at zero current maximum155 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum111 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum10 000 1/h• at DC10 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• control supply voltage at DCDC• rated value110 V• operating fractor control supply voltage rated value of magnet coll at DC110 V• operating range factor control supply voltage rated value of the control supply voltage rated value of magnet coll at DC• initial value0.8	<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	3.1 kVA				
40 °C       • limited to 1 s switching at zero current maximum       155 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 5 s switching at zero current maximum       111 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       86 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       66 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       56 A; Use minimum cross-section acc. to AC-1 rated value         • at DC       10 000 1/h         • at DC       10 000 1/h         • at AC-1 maximum       1 000 1/h         • at AC-2 maximum       750 1/h         • at AC-3 maximum       250 1/h         Control circuit/ Control       Use the control supply voltage         type of voltage of the control supply voltage       DC         • rate	<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	4 kVA				
• limited to 1 s switching at zero current maximum155 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum111 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated value• at DC10 000 1/h• at DC10 000 1/h• at AC-2 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum10 V• operating range factor control supply voltage rated value of magnet coil at DC110 V• initial value0.8 <td>short-time withstand current in cold operating state up to</td> <td></td>	short-time withstand current in cold operating state up to					
Imital to 5 s switching at zero current maximum111 A; Use minimum cross-section acc. to AC-1 rated valueImital to 10 s switching at zero current maximum86 A; Use minimum cross-section acc. to AC-1 rated valueImital to 30 s switching at zero current maximum66 A; Use minimum cross-section acc. to AC-1 rated valueImital to 60 s switching at zero current maximum55 A; Use minimum cross-section acc. to AC-1 rated valueImital to 60 s switching frequency55 A; Use minimum cross-section acc. to AC-1 rated valueImital to 60 s switching frequency10 000 1/hImital AC-1 maximum1000 1/hImital AC-2 maximum750 1/hImital AC-3 maximum750 1/hImital AC-3 maximum750 1/hImital AC-4 maximum750 1/hImital Control circuit/ Control250 1/hImital valueDCImital value110 VImital value0.8						
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>66 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>55 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>no-load switching frequency         <ul> <li>at DC</li> <li>10 000 1/h</li> </ul> </li> <li>operating frequency         <ul> <li>at AC-1 maximum</li> <li>1000 1/h</li> <li>at AC-2 maximum</li> <li>750 1/h</li> <li>at AC-3 maximum</li> <li>750 1/h</li> <li>at AC-3 maximum</li> <li>750 1/h</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul> </li> <li>control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>control supply voltage at DC             <ul> <li>at AC-1</li> <li>at AC-1</li> <li>at AC-1</li> <li>at AC-4</li> <li>at</li></ul></li></ul>	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	155 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>Iimited to 30 s switching at zero current maximum</li> <li>Iimited to 60 s switching at zero current maximum</li> <li>S5 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>no-load switching frequency         <ul> <li>at DC</li> <li>10 000 1/h</li> </ul> </li> <li>operating frequency         <ul> <li>at AC-1 maximum</li> <li>1000 1/h</li> <li>at AC-2 maximum</li> <li>50 1/h</li> <li>at AC-3 maximum</li> <li>50 1/h</li> <li>at AC-3 maximum</li> <li>50 1/h</li> <li>at AC-4 maximum</li> <li>250 1/h</li> </ul> </li> <li>Control circuit/ Control         <ul> <li>type of voltage of the control supply voltage</li> <li>Control supply voltage at DC                 <ul> <li>rated value</li> <li>100 V</li> <li>operating range factor control supply voltage rated value of magnet coil at DC                  <ul> <li>initial value</li> <li>0.8</li> <li>description</li> <li>at DC</li> <li>at DC</li> <li>at DC</li> <li>at DC</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>bC</li> <li>control circuit/ Control</li> <li>DC</li> <li>control supply voltage at DC</li> <li>initial value</li> <li>DC</li> <li>at DC</li></ul></li></ul></li></ul></li></ul>	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	111 A; Use minimum cross-section acc. to AC-1 rated value				
• limited to 60 s switching at zero current maximum       55 A; Use minimum cross-section acc. to AC-1 rated value         no-load switching frequency       10 000 1/h         • at DC       10 000 1/h         operating frequency       1 000 1/h         • 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       250 1/h         • at AC-4 maximum       250 1/h         • at AC-4 maximum       DC         control circuit/ Control       DC         type of voltage of the control supply voltage       DC         • rated value       110 V         operating range factor control supply voltage rated value of magnet coil at DC       0.8	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency     10 000 1/h       operating frequency     -       • at AC-1 maximum     1 000 1/h       • at AC-2 maximum     750 1/h       • at AC-3 maximum     250 1/h       • at AC-4 maximum     250 1/h       • at AC-4 maximum     250 1/h       • at AC-4 maximum     DC       control circuit/ Control     DC       • rated value     110 V       • operating range factor control supply voltage rated value of magnet coil at DC     0.8	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	66 A; Use minimum cross-section acc. to AC-1 rated value				
• at DC10 000 1/hoperating frequency• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDCcontrol circuit/ ControlDC• rated value110 V• rated value0.8	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	55 A; Use minimum cross-section acc. to AC-1 rated value				
operating frequencyI• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• control circuit/ ControlDCControl supply voltage at DCI10 V• rated value110 V• initial value0.8	no-load switching frequency					
• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDC• control circuit/ ControlDC• rated value110 V• rated value0.8	• at DC	10 000 1/h				
• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCControl supply voltage at DCDC• rated value110 V• perating range factor control supply voltage rated value of magnet coil at DC0.8	operating frequency					
• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCcontrol supply voltage at DCDC• rated value110 Voperating range factor control supply voltage rated value of magnet coil at DC0.8	• at AC-1 maximum	1 000 1/h				
• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDCcontrol supply voltage at DC110 V• rated value110 Voperating range factor control supply voltage rated value of magnet coil at DC0.8	• at AC-2 maximum	750 1/h				
• at AC-4 maximum250 1/hControl circuit/ Controltype of voltage of the control supply voltageDCcontrol supply voltage at DC110 V• rated value110 Voperating range factor control supply voltage rated value of magnet coil at DC0.8	• at AC-3 maximum	750 1/h				
Control circuit/ Control         type of voltage of the control supply voltage       DC         control supply voltage at DC       Into V         • rated value       110 V         operating range factor control supply voltage rated value of magnet coil at DC       0.8	• at AC-3e maximum	750 1/h				
type of voltage of the control supply voltage     DC       control supply voltage at DC     110 V       • rated value     110 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8	• at AC-4 maximum	250 1/h				
control supply voltage at DC     110 V       • rated value     110 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8	Control circuit/ Control					
control supply voltage at DC     110 V       • rated value     110 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8	type of voltage of the control supply voltage	DC				
• rated value     110 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8						
operating range factor control supply voltage rated value of magnet coil at DC       0.8		110 V				
	operating range factor control supply voltage rated value of					
• full-scale value 1.1	• initial value	0.8				
	full-scale value	1.1				

opening delay • at DC7 13arcing time10 7control version of the switch operating mechanismStandaAuxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15 • at 230 V rated value10 A• at 400 V rated value3 A• at 690 V rated value1 Aoperational current at DC-12 • at 24 V rated value10 A			
closing delay30 7• at DC30 7opening delay10 7• at DC7 13arcing time10 7control version of the switch operating mechanismStandaAuxiliary circuit10 7number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-1510 A• at 230 V rated value10 A• at 400 V rated value3 A• at 690 V rated value1 Aoperational current at DC-1210 A• at 24 V rated value10 A• at 48 V rated value6 A	3 ms 15 ms		
• at DC30 4opening delay7 13• at DC7 13arcing time10 4control version of the switch operating mechanismStandsAuxiliary circuit10 4number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-1510 A• at 230 V rated value10 A• at 400 V rated value10 A• at 690 V rated value1 Aoperational current at DC-1210 A• at 24 V rated value10 A• at 48 V rated value6 A	3 ms 15 ms		
opening delay • at DC7 13arcing time10 7control version of the switch operating mechanismStandaAuxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15 • at 230 V rated value10 A• at 400 V rated value3 A• at 690 V rated value1 Aoperational current at DC-12 	3 ms 15 ms		
• at DC       7 13         arcing time       10 7         control version of the switch operating mechanism       Stands         Auxiliary circuit       Image: Stands         number of NC contacts for auxiliary contacts instantaneous contact       1         operational current at AC-12 maximum       10 A         operational current at AC-15       Image: Stands         • 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       Image: Stands         • at 24 V rated value       10 A         • at 48 V rated value       6 A	15 ms		
arcing time10 *control version of the switch operating mechanismStandateAuxiliary circuitnumber of NC contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15• at 230 V rated value10 A• at 400 V rated value3 A• at 500 V rated value1 Aoperational current at DC-12• at 24 V rated value10 A• at 48 V rated value6 A	15 ms		
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Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact       1         operational current at AC-12 maximum       10 A         operational current at AC-15       10 A         • at 230 V rated value       10 A         • at 400 V rated value       2 A         • at 690 V rated value       1 A         operational current at DC-12       10 A         • at 24 V rated value       10 A         • at 48 V rated value       6 A	lard A1 - A2		
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operational current at AC-1510 A• at 230 V rated value10 A• at 400 V rated value3 A• at 500 V rated value2 A• at 690 V rated value1 Aoperational current at DC-1210 A• at 24 V rated value10 A• at 48 V rated value6 A			
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>1 A</li> </ul> Operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>6 A</li> </ul>			
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 500 V rated value 2 A     at 690 V rated value 1 A     operational current at DC-12         e at 24 V rated value 10 A         e at 48 V rated value 6 A			
• at 690 V rated value1 Aoperational current at DC-1210 A• at 24 V rated value10 A• at 48 V rated value6 A			
operational current at DC-12• at 24 V rated value10 A• at 48 V rated value6 A			
at 24 V rated value     10 A     at 48 V rated value     6 A			
• at 48 V rated value 6 A			
a at 60 V rated value			
• 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	1 A		
• at 600 V rated value 0.15 A	4		
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 fault	ty 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 7.6 A			
• at 600 V rated value 9 A			
yielded mechanical performance [hp]			
for single-phase AC motor			
— at 110/120 V rated value 0.33 h	q		
— at 230 V rated value 1 hp			
for 3-phase AC motor			
- at 200/208 V rated value 2 hp			
- at 220/230 V rated value 3 hp			
— at 460/480 V rated value 5 hp			
— at 575/600 V rated value 7.5 hp	)		
	/ Q600		
Short-circuit protection			
design of the fuse link			
for short-circuit protection of the main circuit			
	5A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)		
	0A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)		
	0 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
	0° rotation possible on vertical mounting surface; can be tilted forward and		
	vard by +/- 22.5° on vertical mounting surface		
fastening method screw	and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
• side-by-side mounting Yes			
height 58 mm	n		
width 45 mm	n		

depth	73 mm			
required spacing				
with side-by-side mounting				
— forwards	10 mm			
— upwards	10 mm 10 mm			
— downwards				
— at the side	10 mm 0 mm			
	0 mm			
for grounded parts     forwards	10 mm			
— forwards				
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
for live parts	10			
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals			
of magnet coil	Screw-type terminals			
type of connectable conductor cross-sections for main contacts				
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²			
<ul> <li>solid or stranded</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
connectable conductor cross-section for main contacts				
• solid	0.5 4 mm²			
stranded	0.5 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>			
connectable conductor cross-section for auxiliary contacts				
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm <sup>2</sup>			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			
type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12			
AWG number as coded connectable conductor cross section				
<ul> <li>for main contacts</li> </ul>	20 12			
<ul> <li>for auxiliary contacts</li> </ul>	20 12			
Safety related data				
product function				
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes			
suitability for use safety-related switching OFF	Yes			
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 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			
Certificates/ approvals				
General Product Approval				
outoral i roudot Approval				

SP M		<u>Confirmation</u>	(UL)	KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conform	nity	Test Certificates	
RCM	<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report
Marine / Shipping					
ABS	B UREAU VERITAS		Llovd's Register us	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	Environment
RMRS	<u>Confirmation</u>	VDE	<u>Vibration and Shock</u>	Transport Information	Environmental Con- firmations
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)					
Industry Mall (Online https://mall.industry.sie	ordering system) emens.com/mall/en/en/Cata	alog/product?mlfb=3RT20	<u>16-1BF42</u>		

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-1BF42

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https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1BF42

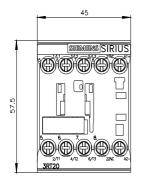
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2016-1BF42&lang=en

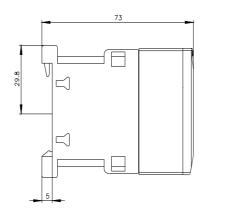
Characteristic: Tripping characteristics, I2t, Let-through current

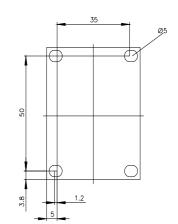
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1BF42/char

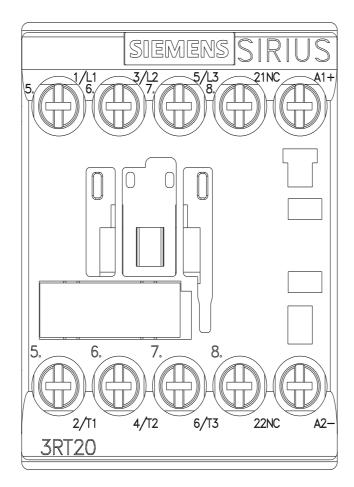
Further characteristics (e.g. electrical endurance, switching frequency)

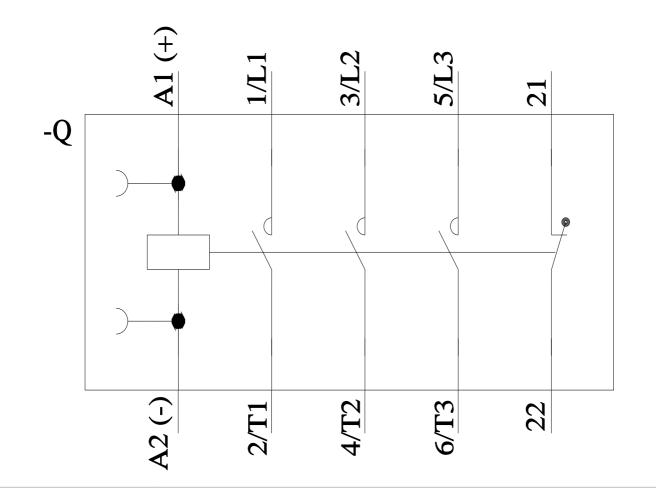
http://www.automation.siem ns.com/bilddb/index.aspx?view= &mlfb 











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