SIEMENS

Data sheet

3RT2017-2AN21



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00

1073 3400 kg	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	1.5 W
 at AC in hot operating state per pole 	0.5 W
 without load current share typical 	1.5 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.256 kg
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 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	39.6 kg
global warming potential [CO2 eq] during manufacturing	1.18 kg
global warming potential [CO2 eq] during operation	38.5 kg
global warming potential [CO2 eq] after end of life	-0.155 kg
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	22 A
• at AC-1	22.4
— up to 690 V at ambient temperature 40 °C rated value	22 A
 up to 690 V at ambient temperature 60 °C rated value at AC-3 	20 A
• at AC-3 — at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	7.2 A
— up to 400 V for current peak value n=20 rated value	7.2 A
— up to 500 V for current peak value n=20 rated value	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 value	4 mm ²
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	20.4
- 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

- with 2 surrant action in carias at DC 4					
with 3 current paths in series at DC-1 — at 24 V rated value	20.4				
— at 60 V rated value	20 A				
— at 110 V rated value	20 A 20 A				
	20 A 20 A				
— at 220 V rated value					
— at 440 V rated value	1.3 A 1 A				
— at 600 V rated value	IA				
at 1 current path at DC-3 at DC-5	20 A				
— at 24 V rated value	20 A				
— at 60 V rated value — at 110 V rated value	0.5 A				
	0.15 A				
with 2 current paths in series at DC-3 at DC-5 at 24 // reted value	20.4				
— at 24 V rated value	20 A				
— at 60 V rated value	5 A				
— at 110 V rated value	0.35 A				
with 3 current paths in series at DC-3 at DC-5	20 A				
— 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				
— at 440 V rated value	0.2 A				
— at 600 V rated value	0.2 A				
• at AC-2 at 400 V rated value	5.5 kW				
• at AC-3	0.0 KVV				
 at AC-3 — at 230 V rated value 	3 kW				
— at 400 V rated value	5.5 kW				
— at 500 V rated value	5.5 kW				
— at 690 V rated value	5.5 kW				
• at AC-3e	5.5 KVV				
- at 230 V rated value	3 kW				
— at 400 V rated value	5.5 kW				
— at 500 V rated value	5.5 kW				
— at 600 V rated value	5.5 kW				
operating power for approx. 200000 operating cycles at AC-	0.0 KW				
4					
• at 400 V rated value	2 kW				
• at 690 V rated value	2.5 kW				
operating apparent power at AC-6a					
 up to 230 V for current peak value n=20 rated value 	2.8 kVA				
 up to 400 V for current peak value n=20 rated value 	4.9 kVA				
 up to 500 V for current peak value n=20 rated value 	6.2 kVA				
 up to 690 V for current peak value n=20 rated value 	8 kVA				
operating apparent power at AC-6a					
 up to 230 V for current peak value n=30 rated value 	1.9 kVA				
 up to 400 V for current peak value n=30 rated value 	3.3 kVA				
 up to 500 V for current peak value n=30 rated value 	4.1 kVA				
 up to 690 V for current peak value n=30 rated value 	5.7 kVA				
short-time withstand current in cold operating state up to 40 °C					
Imited to 1 s switching at zero current maximum	200 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 5 s switching at zero current maximum	123 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 10 s switching at zero current maximum	96 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 30 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency	40,000,4%				
• at AC	10 000 1/h				
operating frequency	1,000,1/b				
at AC-1 maximum at AC-2 maximum	1 000 1/h				
• at AC-2 maximum	750 1/h 750 1/h				
• at AC-3 maximum	750 1/h				

• at AC-3e maximum	750 1/h		
• at AC-4 maximum	250 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	AC		
control supply voltage at AC			
• at 50 Hz rated value	220 V		
• at 60 Hz rated value	220 V		
operating range factor control supply voltage rated value of magnet coil at AC			
• at 50 Hz	0.8 1.1		
• at 60 Hz	0.85 1.1		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	37 VA		
• at 60 Hz	33 VA		
inductive power factor with closing power of the coil			
at 50 Hz	0.8		
• at 50 Hz	0.75		
	0.15		
apparent holding power of magnet coil at AC	57\/A		
• at 50 Hz	5.7 VA		
at 60 Hz	4.4 VA		
inductive power factor with the holding power of the coil	0.25		
• at 50 Hz	0.25		
• at 60 Hz	0.25		
closing delay			
• at AC	9 35 ms		
opening delay			
• at AC	4 15 ms		
arcing time	10 15 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
number of NO contacts for auxiliary contacts instantaneous contact	1		
operational current at AC-12 maximum	10 A		
operational current at AC-15			
· · · · · · · · · · · · · · · · · · ·	10 A		
operational current at AC-15			
• at 230 V rated value	10 A		
 operational current at AC-15 at 230 V rated value at 400 V rated value 	10 A 3 A		
 operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value 	10 A 3 A 2 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	10 A 3 A 2 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12	10 A 3 A 2 A 1 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value	10 A 3 A 2 A 1 A 10 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value	10 A 3 A 2 A 1 A 10 A 6 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 24 V rated value • at 25 V rated value • at 125 V rated value • at 220 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 10 V rated value • at 210 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 4110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 22 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 24 V rated value • at 25 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 420 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 24 V rated value • at 24 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 60 V rated value • at 24 V rated value • at 25 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 26 V rated value • at 26 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 250 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 10 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 20 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 64 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 100 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 10 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 260 V rated value • at 100 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 60 V rated value • at 10 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 20 V rated value • at 20 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 60 V rated value • at 10 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 25 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 20 V rated value • at 20 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value <td>10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 1 A 0.15 A 1 A 1 A 0.15 A</td>	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 1 A 0.15 A 1 A 1 A 0.15 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 10 V rated value • at 110 V rated value • at 20 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 250 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 200 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 60 V rated value • at 220 V rated value • at 110 V rated value • at 220 V rated value • at 60 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value<	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 24 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 20 V rated value • at 10 V rated value • at 10 V rated value • at 220 V rated value • at 600 V rated value <td>10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 11 A 11 A</td>	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 11 A 11 A		
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 250 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 200 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 60 V rated value • at 220 V rated value • at 110 V rated value • at 220 V rated value • at 60 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value<	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 11 A 11 A		

— 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 miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA			
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 side-by-side mounting	Yes			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
height	70 mm			
width	45 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			
 for auxiliary and control circuit 	spring-loaded terminals			
 at contactor for auxiliary contacts 	Spring-type terminals			
• of magnet coil	Spring-type terminals			
type of connectable conductor cross-sections				
for main contacts				
— solid	2x (0.5 4 mm²)			
— solid or stranded	2x (0.5 4 mm ²)			
 finely stranded with core end processing 	2x (0.5 2.5 mm ²)			
 finely stranded without core end processing 	2x (0.5 2.5 mm ²)			
 for AWG cables for main contacts 	2x (20 12)			
connectable conductor cross-section for main contacts				
• solid	0.5 4 mm²			
stranded	0.5 4 mm ²			
 finely stranded with core end processing 	0.5 2.5 mm ²			
 finely stranded with one end processing 	0.5 2.5 mm ²			
connectable conductor cross-section for auxiliary contacts				
solid or stranded	0.5 4 mm²			
finely stranded with core end processing	0.5 2.5 mm ²			
· mory subnocu with core end processing	0.0 2.0 (1)(1)			

 finely stranded without core end processing 	g	0.5 2.5 mm ²			
type of connectable conductor cross-sections					
 for auxiliary contacts 					
— solid or stranded		2x (0,5 4 mm²)			
 finely stranded with core end process 	ing	2x (0.5 2.5 mm²)			
— finely stranded without core end proce	-	2x (0.5 2.5 mm²)			
 for AWG cables for auxiliary contacts 		2x (0.5 2.5 mm ⁺) 2x (20 12)			
AWG number as coded connectable conducto	r cross				
section		aa ia			
• for main contacts		20 12			
for auxiliary contacts		20 12			
afety related data					
product function					
 mirror contact according to IEC 60947-4-1 		Yes; with 3RH29			
 positively driven operation according to IEC 	C 60947-5-1	No			
 suitable for safety function 		Yes			
suitability for use safety-related switching OFF		Yes			
service life maximum		20 a			
test wear-related service life necessary		Yes			
proportion of dangerous failures					
 with low demand rate according to SN 3192 	20	40 %			
 with high demand rate according to SN 319 	920	73 %			
B10 value with high demand rate according to	SN 31920	1 000 000			
failure rate [FIT] with low demand rate according to SN 31920		100 FIT			
ISO 13849					
device type according to ISO 13849-1		3			
overdimensioning according to ISO 13849-2 n	ecessarv	Yes			
IEC 61508	,				
safety device type according to IEC 61508-2		Туре А			
Electrical Safety		51			
protection class IP on the front according to I	EC 60529	IP20			
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front			
Approvals Certificates	00020				
General Product Approval					
CCC CCC CCC CCC	<u>Confirmatior</u>	UK CA		KC	
General Product Approval EMV	Test Certificate	S	Marine / Shipping		
	<u>Special Test Cer</u> <u>ate</u>	tific- <u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS	
Marine / Shipping				other	
	PRS	RINA	RMRS	<u>Miscellaneous</u>	

Confirmation

Confirmation

Special Test Certificate



Environmental Confirmations

Further information

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=3RT2017-2AN21

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2AN21

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2AN21

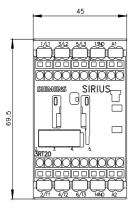
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

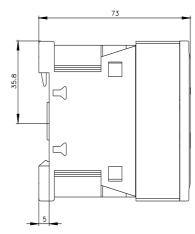
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2AN21&lang=en

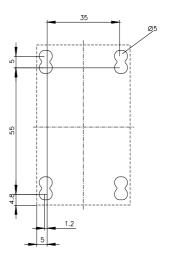
Characteristic: Tripping characteristics, I²t, Let-through current

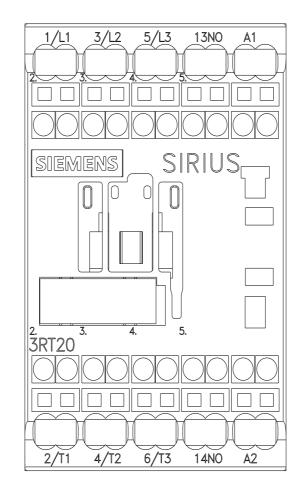
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2AN21/char Further characteristics (e.g. electrical endurance, switching frequency)

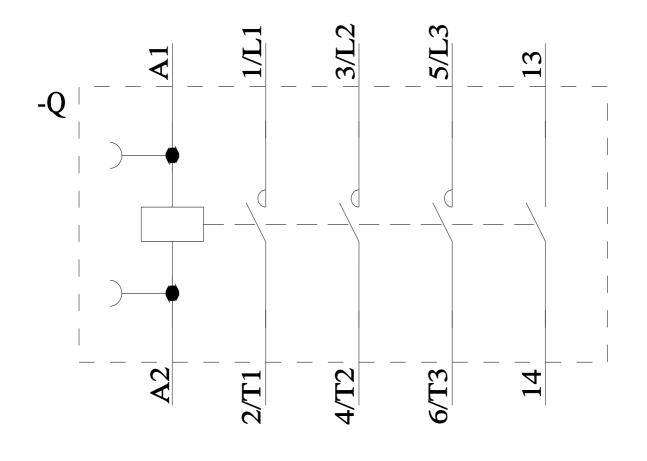
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2AN21&objecttype=14&gridview=view1











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1/24/2025 🖸