SIEMENS

Data sheet

3RT2015-1BW41



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 48 V DC, auxiliary contacts: 1 NO, 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	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	4 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 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)	
 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	0.29 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 %

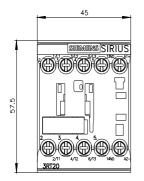
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	153 kg
global warming potential [CO2 eq] during manufacturing	1.42 kg
global warming potential [CO2 eq] during operation	152 kg
global warming potential [CO2 eq] after end of life	-0.305 kg
Main 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 at AC-1 	18 A
up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
- at 400 V rated value	7 А
- at 500 V rated value	6 A
 — at 690 V rated value at AC-4 at 400 V rated value 	4.9 A 6.5 A
 at AC-4 at 400 V rated value at AC-5a up to 690 V rated value 	15.8 A
at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	4 A
— up to 400 V for current peak value n=20 rated value	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	2.7 A
— up to 400 V for current peak value n=30 rated value	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm ²
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
- at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A

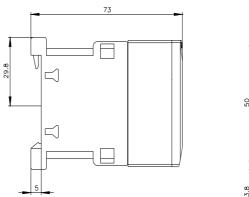
• with 3 current paths in series at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	0.35 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC- 4	
at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	1.13 KW
up to 230 V for current peak value n=20 rated value	1.5 kVA
up to 200 V for current peak value n=20 rated value	2.7 kVA
up to 500 V for current peak value n=20 rated value	3.3 kVA
• up to 690 V for current peak value n=20 rated value	4.3 kVA
	4.5 KVA
operating apparent power at AC-6a	1 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 	1.8 kVA
 up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 	2.2 kVA
	2.2 kVA 2.9 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 	120 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	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	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h

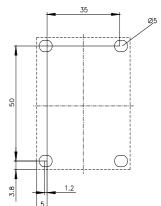
Description DC Control supply voltage at DC rated value DC Operating angle factor control supply voltage rated value of magnitic of at DD 48 /v • Initial value D.3 • Initial value D.3 • Initial value D.3 • Initial value D.4	Control circuit/ Control			
control supply voltage at DC rated value 46 V operating carge factor control supply voltage rated value of initial volue 0 • Initial volue 1 • Initial volue 1 • Initial volue 10 • Initial v		DC		
operating range factor control supply voltage rated value of magnet coil at DC 0.8 • Initial value 0.9 • Initial value 10 • Initial value 10.0 Operational current at AC-15 • • Initial value 10.0 • Initial value 0.0 • Initial value 0.0				
• NB scale value 0.8 • Iblisical value 11 • closing power of magnet coil at DC 4 W • closing power of magnet coil at DC 4 W • closing power of magnet coil at DC 4 W • closing delay - • at DC 713 ms • attop the auxiliary contacts instantaneous 1 operational current at AC-12 1 operational current at AC-12 1 • at 00 V rated value 1A operational current at AC-12 1 • at 00 V rated value 0A	operating range factor control supply voltage rated value of			
• Ill scale value 11 closing power of magnet coil a DC 4 W holding power of magnet coil a DC 4 W closing daty		0.8		
closing power of magnet coil at DC 4 W holding power of magnet coil at DC 4 W closing delay 30 100 ms • at DC 30 100 ms • at DC 713 ms • at DC 713 ms • at DC 10 15 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 10 A operating delay 1 • at 30 V rated value 10 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-12 10 A • at 300 V rated value 2 A • at 600 V rated value 6 A • at 600 V rated value 6 A • at 600 V rated value 6 A • at 600 V rated value 10 A • at 600 V rated value 10 A • at 600 V rated value 10 A • at 600 V rated value 2 A • at 600 V rated value 10 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 60 V rated value 2 A				
holding power of mignet coil at DC 4 W closing delay				
closing delay a0 100 ms • at DC 30 100 ms • at DC 7 13 ms • at DC 7 13 ms • at DC 10 15 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 10 15 ms runnber of NO contacts for auxiliary contacts instantaneous 1 operational current at AC-12 maximum 10 A • at 330 V rated value 3A • at 380 V rated value 3A • at 380 V rated value 6A • at 480 V rated value 6A • at 480 V rated value 6A • at 480 V rated value 6A • at 320 V rated value 6A • at 320 V rated value 16A • at 340 V rated value 16A • at 300 V rated value 16A • at 300 V rated value 16A • at 300 V rated value 16A				
• at CC 90 100 ms opening delay		W		
opening delay 713 ms • at CC 713 ms arcing time 1015 ms control version of the switch operating mechanism Standard A1 - A2 Availary circles 1 operational current at AC-12 maximum 10 A operational current at AC-15 1 - at 230 Vrated value 2 A - at 84 00 Vrated value 2 A - at 84 00 Vrated value 2 A - at 84 00 Vrated value 0 A - at 82 Vrated value 0 A		30 100 ms		
arcing time 7 13 ms arcing time 10 15 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 1 operational current at AC-12 maximum 10.A operational current at AC-15 1 • at 230 Vrated value 3A • at 300 Vrated value 3A • at 400 Vrated value 1A operational current at AC-12 maximum 10.A • at 300 Vrated value 2A • at 300 Vrated value 1A operational current at DC-12 1A • at 300 Vrated value 6A • at 30 Vrated value 6A • at 30 Vrated value 1A operational current at DC-12				
arcing time 10 15 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 1 context 1 operational current at AC-12 maximum 10 A operational current at AC-13 3A • at 300 V rated value 3A • at 300 V rated value 3A • at 600 V rated value 3A • at 600 V rated value 1A operational current at AC-12 0A • at 600 V rated value 3A • at 600 V rated value 1A operational current at AC-12 0A • at 600 V rated value 6A • at 600 V rated value 6A • at 600 V rated value 1A • at 600 V rated value 1A • at 600 V rated value 0.15 A operational current at 0C-13 1 • at 600 V rated value 0.15 A operational current at 0C-13 1 • at 600 V rated value 0.16 A • at 600 V rated value 0.10 A • at 600 V rated value 0.10 A • at 600 V rated value 0.10 A <		7 13 ms		
Control version of the switch operating mechanism Standard A1 - A2 Auxiliary carcuit Invested rNO contacts for auxiliary contacts instantaneous contact. 1 operational current at AC-12 maximum 10 A operational current at AC-15 Invested rAU • at 230 V rated value 3 A • at 300 V rated value 3 A • at 300 V rated value 1 A operational current at DC-12 Invested value • at 30 V rated value 6 A • at 30 V rated value 7 A • at 30 V rated value 10 A • at 30 V rated value 10 A • at 20 V rated value 15 A operational current at DC-13 Intervetore value • at 20 V rated value 10 A • at 30 V rated value 10 A • at 30 V rated value 0.4 A • at 30 V rated value 0.4 A • at 20 V rated value 0.4 A • at 30 V rated value 0.4 A <td< td=""><td></td><td></td></td<>				
Auxiliary circuit 1 number of NO contacts for auxiliary contacts instantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-15 1 • at 300 V rated value 3 A • at 600 V rated value 3 A • at 600 V rated value 10 A operational current at DC-12 • • at 600 V rated value 6 A • at 600 V rated value 6 A • at 600 V rated value 6 A • at 100 V rated value 6 A • at 100 V rated value 10 A • at 600 V rated value 10 A • at 600 V rated value 0.15 A operational current at DC-13 • • at 600 V rated value 10 A • at 400 V rated value 10 A • at 400 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 0.3 A • at 600 V rated value 0.1 A • at 600 V rated value 0.1 A • at 600 V rated value 0.1 A • at 600 V rated value <td></td> <td>Standard A1 - A2</td>		Standard A1 - A2		
number of NO contacts for auxiliary contacts instantaneous contact 1 operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A • at 230 V rated value 3A • at 300 V rated value 3A • at 300 V rated value 1A operational current at AC-12 maximum 10 A • at 300 V rated value 3A • at 300 V rated value 1A operational current at AC-12	· · · ·			
operational current at AC-15 10 A • at 230 V rated value 10 A • at 400 V rated value 2 A • at 600 V rated value 1 A operational current at DC-12 1 A • at 24 V rated value 10 A • at 40 V rated value 6 A • at 40 V rated value 6 A • at 40 V rated value 6 A • at 60 V rated value 2 A • at 60 V rated value 6 A • at 60 V rated value 2 A • at 20 V rated value 2 A • at 20 V rated value 2 A • at 20 V rated value 0.15 A operational current at DC-13 10 A • at 40 V rated value 10 A • at 40 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 0.9 A • at 20 V rated value 0.1 A • at 20 V rated value 0.1 A • at 60 V rated val	number of NO contacts for auxiliary contacts instantaneous	1		
• at 230 V rated value 10 Å • at 200 V rated value 3 Å • at 600 V rated value 2 Å • at 600 V rated value 1 Å operational current at DC-12	operational current at AC-12 maximum	10 A		
• at 230 V rated value 10 Å • at 200 V rated value 3 Å • at 600 V rated value 2 Å • at 600 V rated value 1 Å operational current at DC-12	operational current at AC-15			
• al 500 V rated value2 A• at 660 V rated value1 Aoperational current at DC-12• at 24 V rated value10 A• at 24 V rated value6 A• at 46 V rated value6 A• at 100 V rated value3 A• at 110 V rated value2 A• at 25 V rated value1 A• at 260 V rated value0.15 Aoperational current at DC-13	• at 230 V rated value	10 A		
• at 680 V rated value1 Aoperational current at DC-12• at 24 V rated value6 A• at 48 V rated value6 A• at 100 V rated value3 A• at 1125 V rated value2 A• at 125 V rated value1 A• at 200 V rated value0.15 A• at 600 V rated value0.16 A• at 24 V rated value0.9 A• at 25 V rated value0.9 A• at 260 V rated value0.1 A• at 600 V rated value0.25 hp• at 600 V rated value0.25 hp• at 600 V rated value0.25 hp• at 700 rotated value0.25 hp• at 200/208 V rated value0.25 hp• at 200/208 V rated value1.5 hp• at 200/208 V rated value3 hp• at 200/208 V rated value3 hp• at 600 V rated value5 hp• at 200/208 V rated value5 hp• at 200/208 V rated value5 hp•	• at 400 V rated value	3 A		
operational current at DC-12 10 A • at 24 V rated value 10 A • at 48 V rated value 6 A • at 160 V rated value 3 A • at 125 V rated value 1 A • at 200 V rated value 1 A • at 40 V rated value 2 A • at 40 V rated value 2 A • at 40 V rated value 1 A • at 20 V rated value 1 A • at 10 V rated value 1 A • at 10 V rated value 1 A • at 100 V rated value 0.9 A • at 100 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 0.25 hp • at 400 V rated value 4.8 A • at 400 V rated value 0.25 hp • at 400 V rated value 0.25 hp • at 300 V rated value 0.25 hp • at 400 V rated value 0.25 hp • at 400/Vated value 0.25 hp • at 2	• at 500 V rated value	2 A		
• at 24 V rated value10 A• at 48 V rated value6 A• at 10 V rated value3 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value0.15 A• operational current at DC-130.15 A• at 60 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.15 A• at 60 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.1 A• at 60 V rated value0.9 A• at 25 V rated value0.3 A• at 25 V rated value0.1 A• at 25 V rated value0.1 A• at 25 V rated value0.1 A• at 60 V rated value0.25 hp• at 60 V rated value0.25 hp• at 60 V rated value0.25 hp• at 200 V rated value0.25 hp• at 200 V rated value1.5 hp• at 200/208 V rated value1.5 hp• at 200/208 V rated value3 hp• at 30 V rated value3 hp• at 600 V rated value5 hp• at 600 V rated value5 hp• at 600 V rated value5 hp <t< td=""><td>• at 690 V rated value</td><td>1 A</td></t<>	• at 690 V rated value	1 A		
• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value15 A• operational current at DC-13-• at 24 V rated value10 A• at 24 V rated value2 A• at 600 V rated value2 A• at 600 V rated value2 A• at 600 V rated value0.9 A• at 220 V rated value0.1 A• at 220 V rated value0.1 A• at 220 V rated value0.1 A• at 240 V rated value0.1 A• at 600 V rated value0.1 A• at 480 V rated value0.1 A• at 480 V rated value0.1 A• at 230 V rated value0.25 hp• at 110/120 V rated value0.25 hp• at 110/120 V rated value0.25 hp• at 200/208 V rated value1.5 hp- at 200/208 V rated value2 hp- at 200/208 V rated value3 hp- at 40/408 V rated	operational current at DC-12			
• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-13	• at 24 V rated value	10 A		
• at 110 V rated value 3 A • at 125 V rated value 2 A • at 220 V rated value 0.15 A operational current at DC-13	• at 48 V rated value	6 A		
• at 125 V rated value 2 A • at 220 V rated value 1A • at 600 V rated value 05 A operational current at DC-13 10 A • at 24 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 0.9 A • at 10 V rated value 0.9 A • at 60 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) t//CSA ratings 1 ful-load current (FLA) for 3-phase AC motor 4.8 A • at 480 V rated value 6.1 A vielded mechanical performance [hp] - • for single-phase AC motor - - at 100/120 V rated value 0.25 hp • for 3-phase AC motor - - at 200208 V rated value 0.75 hp • for 3-phase AC motor - - at 200/208 V rated value 2 hp - at 200/208 V rated value 3 hp - at 200/208 V rated value 5 hp - at 60/480 V rated value 5 hp <	• at 60 V rated value	6 A		
• at 220 V rated value 1 A • at 600 V rated value 0.15 A operational current at DC-13 10 A • at 24 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 10 V rated value 0.9 A • at 122 V rated value 0.3 A • at 220 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 1 full-load current (FLA) for 3-phase AC motor 6.1 A • at 800 V rated value 6.1 A • yielded mechanical performance [tp] 6.1 A • of rasingie-phase AC motor - - at 2002 V rated value 0.25 hp - at 2002 V rated value 0.25 hp - at 2002 V rated value 0.25 hp - at 2002 V rated value 1.5 hp - at 2002 V rated value 2 hp - at 450/480 V rated value 5 hp - at 200228 V rated value 5 hp - at 200228 V rated value 5 hp - at 450/480 V rated value 5 hp - at 450/480 V rated value <	 at 110 V rated value 	3 A		
• at 600 V rated value 0.15 A operational current at DC-13 10 A • at 24 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 10 V rated value 2 A • at 25 V rated value 0.9 A • at 20 V rated value 0.14 A • at 200 V rated value 0.14 A • at 200 V rated value 0.14 A • at 200 V rated value 0.14 A • at 600 V rated value 4.8 A • at 600 V rated value 4.8 A • at 600 V rated value 0.25 hp • for single-phase AC motor 0.25 hp - at 101/120 V rated value 0.25 hp - at 200/208 V rated value 1.5 hp - at 200/208 V rated value 1.5 hp - at 60/480 V rated value 3 hp - at 50/500 V rated value 5 hp - at 60/480 V rated value 5 hp - at 60/480 V rated value 5 hp - at 60/4800 V rated value	 at 125 V rated value 	2 A		
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 20208 V rated value • at 20028 V rated value • at 200208 V rated value • at 575/600 V rated value • at 575/600 V rated value	 at 220 V rated value 	1 A		
• 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 200 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings	at 600 V rated value	0.15 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 200 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 4.8 A • at 600 V rated value 6.1 A yielded mechanical performance [hp] • for single-phase AC motor - - at 110/120 V rated value 0.25 hp - at 200/208 V rated value 0.25 hp - at 200/208 V rated value 0.25 hp - at 200/208 V rated value 1.5 hp - at 200/208 V rated value 2 hp - at 400/80 V rated value 3 hp - at 600/80 V rated value 5 hp - at 600/80 V rated value 5 hp - at 600/80 V rated	operational current at DC-13			
• at 60 V rated value 2 A • at 110 V rated value 1 A • at 125 V rated value 0.9 A • at 220 V rated value 0.3 A • at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 1 full-load current (FLA) for 3-phase AC motor 4.8 A • at 600 V rated value 6.1 A yielded mechanical performance [hp] 6.1 A • for single-phase AC motor - at 110/120 V rated value • at 230 V rated value 0.25 hp • at 202028 V rated value 0.75 hp • for 3-phase AC motor - at 220/230 V rated value - at 202028 V rated value 1.5 hp - at 220208 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection C characteristic: 10 A; 0.4 kA design of the miniture circuit breaker for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	 at 24 V rated value 	10 A		
• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)U/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value4.8 A• at 600 V rated value6.1 Ayielded mechanical performance [hp]• for single-phase AC motor- at 110/120 V rated value0.25 hp- at 230 V rated value0.75 hp• for 3-phase AC motor- at 200/208 V rated value0.75 hp• at 4804 V vated value1.5 hp- at 220/230 V rated value2 hp p- at 640480 V rated value3 hp- at 575/600 V rated value5 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionC characteristic: 10 A; 0.4 kAdesign of the miniature circuit breaker for short-circuit protectionC characteristic: 10 A; 0.4 kA	 at 48 V rated value 	2 A		
• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value4.8 A• at 480 V rated value6.1 Ayielded mechanical performance [hp]• for single-phase AC motor- at 110/120 V rated value0.25 hp- at 230 V rated value0.75 hp• for 3-phase AC motor- at 220/230 V rated value1.5 hp- at 220/230 V rated value2 hp- at 460/480 V rated value3 hp- at 675/600 V rated value5 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionC characteristic: 10 A; 0.4 kAdesign of the fuse linkgG: 10 A (500 V, 1 kA)	 at 60 V rated value 	2 A		
• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value4.8 A• at 600 V rated value6.1 Ayielded mechanical performance [hp]6.1 A• for single-phase AC motor at 110/120 V rated value0.25 hp- at 200/208 V rated value0.75 hp• for 3-phase AC motor at 200/208 V rated value1.5 hp- at 200/208 V rated value3 hp- at 460/480 V rated value5 hp- at 575/600 V rated value5 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionC characteristic: 10 A; 0.4 kAdesign of the fuse linkgG: 10 A (500 V, 1 kA)	 at 110 V rated value 	1 A		
• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value4.8 A• at 600 V rated value6.1 Ayielded mechanical performance [hp]• for single-phase AC motor- at 101/120 V rated value0.25 hp- at 230 V rated value0.75 hp• for 3-phase AC motor- at 200/208 V rated value1.5 hp- at 200/208 V rated value1.5 hp- at 220/230 V rated value3 hp- at 460/480 V rated value5 hpContact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionC characteristic: 10 A; 0.4 kAdesign of the fuse linkgG: 10 A (500 V, 1 kA)	 at 125 V rated value 	0.9 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 4.8 A • at 600 V rated value 6.1 A yielded mechanical performance [hp] • • for single-phase AC motor 0.25 hp - at 110/120 V rated value 0.25 hp - at 230 V rated value 0.75 hp • for 3-phase AC motor - - at 200/208 V rated value 1.5 hp - at 200/208 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp - at 575/600 V rated value 5 hp - at 575/600 V rated value 5 hp - at 300 / rated value 5 hp - at 575/600 V rated value 5 hp - at 575/600 V rated value 5 hp Contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection C characteristic: 10 A; 0.4 kA design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V C characteristic: 10 A; 0.0 V, 1 kA)	 at 220 V rated value 	0.3 A		
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 4.8 A • at 600 V rated value 6.1 A yielded mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value 0.25 hp - at 230 V rated value 0.75 hp • for 3-phase AC motor - at 200/208 V rated value 1.5 hp - at 200/208 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection C characteristic: 10 A; 0.4 kA design of the fuse link gG: 10 A (500 V, 1 kA)	● at 600 V rated value	0.1 A		
full-load current (FLA) for 3-phase AC motor 4.8 A • at 480 V rated value 6.1 A yielded mechanical performance [hp] 6.1 A • for single-phase AC motor 0.25 hp - at 110/120 V rated value 0.25 hp - at 230 V rated value 0.75 hp • for 3-phase AC motor - at 200/208 V rated value - at 200/208 V rated value 1.5 hp - at 220/230 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection C characteristic: 10 A; 0.4 kA design of the fuse link gG: 10 A (500 V, 1 kA)		1 faulty switching per 100 million (17 V, 1 mA)		
• at 480 V rated value 4.8 A • at 600 V rated value 6.1 A yielded mechanical performance [hp] 6.1 A • for single-phase AC motor 0.25 hp - at 110/120 V rated value 0.25 hp - at 230 V rated value 0.75 hp • for 3-phase AC motor - - at 200/208 V rated value 1.5 hp - at 220/230 V rated value 1.5 hp - at 220/230 V rated value 1.5 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp Contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection C characteristic: 10 A; 0.4 kA of the auxiliary circuit up to 230 V C characteristic: 10 A; 0.4 kA				
• at 600 V rated value6.1 Ayielded mechanical performance [hp]6.1 A• for single-phase AC motor0.25 hp- at 110/120 V rated value0.25 hp- at 230 V rated value0.75 hp• for 3-phase AC motor at 200/208 V rated value1.5 hp- at 220/208 V rated value2 hp- at 220/230 V rated value3 hp- at 460/480 V rated value5 hp- at 575/600 V rated value5 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectionC characteristic: 10 A; 0.4 kAof the auxiliary circuit up to 230 VG: 10 A (500 V, 1 kA)				
yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value for 3-phase AC motor at 220/230 V rated value for 3-phase AC motor at 220/230 V rated value for 3-phase AC motor at 460/480 V rated value for 3-phase AC motor 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 for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) 				
 for single-phase AC motor at 110/120 V rated value at 230 V rated value o.75 hp for 3-phase AC motor at 200/208 V rated value for 3-phase AC motor at 220/230 V rated value for 3-phase AC motor at 220/230 V rated value for 3-phase V rated value for 3-phase AC motor at 220/230 V rated value for 3-phase V rated value at 220/230 V rated value for 3-phase V rated value for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)		0.1 A		
- at 10/120 V rated value0.25 hp- at 230 V rated value0.75 hp• for 3-phase AC motor at 200/208 V rated value1.5 hp- at 220/230 V rated value2 hp- at 220/230 V rated value3 hp- at 460/480 V rated value5 hp- at 575/600 V rated value5 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 VC characteristic: 10 A; 0.4 kAdesign of the fuse link • for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)				
at 230 V rated value0.75 hp• for 3-phase AC motor at 200/208 V rated value1.5 hp at 220/230 V rated value2 hp at 460/480 V rated value3 hp at 575/600 V rated value5 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 VC characteristic: 10 A; 0.4 kAe for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)		0.25 bp		
• for 3-phase AC motor at 200/208 V rated value1.5 hp- at 220/230 V rated value2 hp- at 460/480 V rated value3 hp- at 575/600 V rated value5 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 VC characteristic: 10 A; 0.4 kAdesign of the fuse link • for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)				
at 200/208 V rated value1.5 hp at 220/230 V rated value2 hp at 460/480 V rated value3 hp at 575/600 V rated value5 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the miniature circuit breaker for short-circuit protectionof the auxiliary circuit up to 230 VC characteristic: 10 A; 0.4 kAe for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)		0.70 Hp		
	•	1.5 hn		
contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection C characteristic: 10 A; 0.4 kA 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 gG: 10 A (500 V, 1 kA)				
Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)				
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 auxiliary switch required GG: 10 A (500 V, 1 kA) 				
design of the fuse link • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)	design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA		
Installation/ mounting/ dimensions	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)		
	Installation/ mounting/ dimensions			

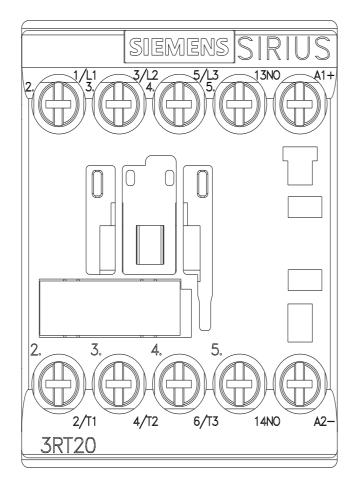
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and		
backward by +/- 22.5° on vertical mounting surface			
fastening method side-by-side mounting	Yes		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
height	58 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		
— forwards	10 mm		
— upwards	10 mm		
- downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
 for auxiliary and control circuit 	screw-type terminals		
 at contactor for auxiliary contacts 	Screw-type terminals		
of magnet coil	Screw-type terminals		
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		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 for AWG cables for main contacts 	2x (20 16), 2x (18 14), 2x 12		
connectable conductor cross-section for main contacts			
• solid	0.5 4 mm²		
stranded	0.5 4 mm²		
 finely stranded with core end processing 	0.5 2.5 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 mm²		
type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12		
AWG number as coded connectable conductor cross section			
 for main contacts 	20 12		
 for 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		
	Yes		
 suitable for safety function 	100		
suitable for safety function suitability for use safety-related switching OFF	Yes		
•			
suitability for use safety-related switching OFF	Yes		
suitability for use safety-related switching OFF service life maximum	Yes 20 a		

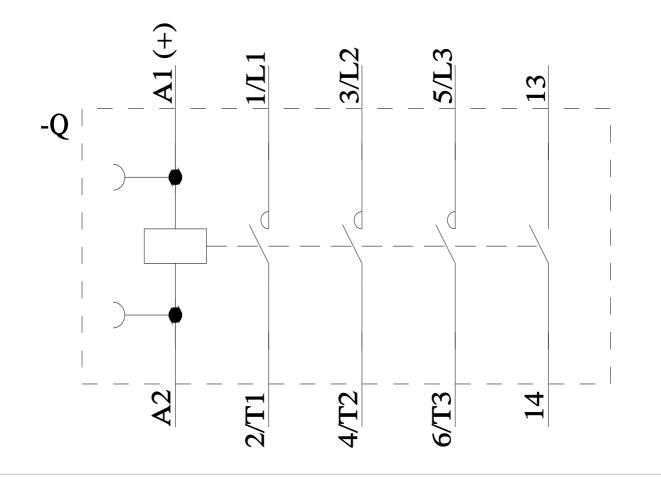
	a rate according to SN 319		%		
	emand rate according to		000 000		
1920	ow demand rate accordi	ng to SN 10	0 FIT		
SO 13849					
levice type according		3			
-	ording to ISO 13849-2 no	ecessary Ye	S		
EC 61508	ording to IEC 61508-2	Ти	pe A		
Electrical Safety					
	the front according to IE			t from the front	
ouch protection on the provals Certificates	e front according to IEC	60529 IIIi	ger-safe, for vertical contac	t from the front	_
General Product Appr	oval				
	CE EG-Konf.	UK CA	(UL)	KC	EAC
EMV	Test Certificates		Marine / Shipping		
RCM	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS	
larine / Shipping				other	
Lloyd's Register uts	PRS	RINA	RMRS	<u>Miscellaneous</u>	<u>Confirmation</u>
Railway	Dangerous goods	Environment			
Special Test Certific- ate	Transport Information	EPD	Environmental Con- firmations		
rther information					
nformation- and Down ttps://www.siemens.co ndustry Mall (Online o ttps://mall.industry.sier	siemens.com/cs/ww/en/vie nloadcenter (Catalogs, B m/ic10	Brochures,)	2015-1BW41		
ervice&Support (Mar ttps://support.industry. nage database (prod	nuals, Certificates, Chara <u>siemens.com/cs/ww/en/ps</u> uct images, 2D dimensic	acteristics, FAQs,) <u>3/3RT2015-1BW41</u> on drawings, 3D mode	g=en&mlfb=3RT2015-1BW	_	
haracteristic: Trippin ttps://support.industry.	siemens.com/bilddb/cax_d ng characteristics, l ² t, Le siemens.com/cs/ww/en/ps s (e.g. electrical enduran	t-through current s/3RT2015-1BW41/cha	Ľ		











last modified:

4/17/2025 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RT20151BW41